



Test Report Of ANSI/IES LM-79-19

APPROVED METHOD FOR OPTICAL AND ELECTRICAL MEASUREMENTS OF SOLID-STATE LIGHTING PRODUCTS

Report Number..... : N01A24121657L00501

Client..... : Luci Pte. Ltd.

Address..... : 13A Bukit Pasoh Road Singapore 089827

Test Model..... : LVFK40-0500W-L27-35-O-24-G(Vivoxy FLEX rail),
LVFK40-0500W-L27-35-O-24-G(Vivoxy FLEX rail+shield),
LVFK40-0500W-L27-35-O-24-G(Vivoxy FLEX rail+shield+louver),
LVFK40-0500W-L27-35-O-24-G(Vivoxy FLEX rail+shield+louver+return)

Brand Name..... : N/A

Testing Laboratory... : Guangdong GTG Testing Technology Co., Ltd.

Address..... : 1st floor, B Area, Jinbaisheng Industrial Park, Headquarters 2 Road, Songshan
Lake Hi-tech Industrial Development Zone, Dongguan City, Guangdong Pr., China.

Testing Location..... : As above

Date of receipt..... : Mar. 11, 2025

Date of test : Mar. 12, 2025 - Mar. 14, 2025

Date of report..... : Apr. 11, 2025

Tested by:

Sujay Zhou

Sujay Zhou/ Test Engineer

Checked by:

Sandy Chen

Sandy Chen/ Project Engineer

Approved by:



Jessie Li/ Technical Manager

Note 1: The test data was only valid for the test sample(s). This test report is prepared for the customer shown above and for the device described herein. It may not be duplicated or use in part without prior written consent from Guangdong GTG Testing Technology Co., Ltd. This report must not be used by the customer to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

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Note 3: This report contains data that are not covered by the NVLAP accreditation. It is marked * in the title.

1. Product Description for Equipment under Test (EUT)

Representative (Tested) Model:	LVFK40-0500W-L27-35-O-24-G(Vivoxy FLEX rail), LVFK40-0500W-L27-35-O-24-G(Vivoxy FLEX rail+shield), LVFK40-0500W-L27-35-O-24-G(Vivoxy FLEX rail+shield+louver), LVFK40-0500W-L27-35-O-24-G(Vivoxy FLEX rail+shield+louver+return)
Manufacturer:	Guangdong Lumenhub Technology Co.Ltd
Product Type:	Vivoxy FLEX rail, Vivoxy FLEX rail+shield, Vivoxy FLEX rail+shield+louver, Vivoxy FLEX rail+shield+louver+return
Rated Voltage/Frequency:	DC24V
Rated Power:	12W
Rated luminous flux:	/
Nominal CCT:	2700K

2. Standards Used

- ANSI/IES LM-79-19:APPROVED METHOD:OPTICAL AND ELECTRICAL MEASUREMENTS OF SOLID-STATE LIGHTING PRODUCTS
- IES TM-30-18 IES Method for Evaluating Light Source Color Rendition (This Method is not in Nvlap accreditation scope)

3. Test equipment list

Test Equipment	Serial No.	Model No.	Calibration due date
Full-field Speed Goniophotometer	01-L-182	GO-R5000	2026/03/11
Digital Power Meter	01-L-161	PF2010	2026/03/11
AC Testing Power Source	01-L-162	DPS1060	2026/03/11
Total Spectral Radiant Flux Standard Lamp	01-L-165	D908S	2025/03/19
Integrating Sphere System	01-L-183	2M	2026/03/11
High Accuracy Array Spectroradio Meter	01-L-169	HAAS-3000	2026/03/11
Digital Power Meter	01-L-166	PF310	2026/03/11
AC Testing Power Source	01-L-168	DPS1010	2026/03/11
Standard Lamp	01-L-190	D204	2025/03/19

Statement of Traceability: Guangdong GTG Testing Technology Co., Ltd. attested that all calibration has been performed using suitable standards traceable to national primary standards and International System of Unit(SI).

4. Test Method

Requirements of Ambient Condition

Product was tested with no seasoning. All stabilization and measurements were made in compliance with ANSI/IES LM-79-19. The product was operated at rated voltage or at voltage required by manufacturer. The ambient temperature of the sample was maintained at $25^{\circ}\text{C} \pm 1.2^{\circ}\text{C}$ during measurement. And relative humidity between 10% and 65%.

Goniophotometer System

The sample was tested according to the ANSI/IES LM-79-19.

Photometric parameters were measured using a type C goniophotometer and software. The samples were operated at rated voltage and was stabilized before measurement. Luminous flux, Luminous efficacy, zonal flux were calculated from the software taken at 1° vertical intervals and 22.5° horizontal intervals. Photometric distance was more than five times of the Largest dimension of the test SSL product.

Integrating Sphere System

The sample was tested according to the ANSI/IES LM-79-19.

The sample measurements were made using a spectroradiometer connected by a fiber optic cable and detector through the detector port of the integrating sphere. Coating reflectance of the integrating sphere was 90% to 98%. Photometric measurement conditions was using 4π geometry. The self-absorption factor is applied in the final test result. The sample was operated at rated voltage and was stabilized before measurement. Chromaticity coordinates, correlated color temperature and color rendering index were calculated from the spectral radiant flux measurements taken at 1 nm intervals over the range of 380 to 780 nm.

Fidelity Index (R_f) and Gamut Index (R_g) Calculation

The R_f , R_g was calculated according to IES TM-30-18 by using calculation tools. The calculation was based on the measured SPD from 380nm to 780nm with 1nm intervals. All the colors in this report is for reference only.

5. Integrating Sphere Test Results for LVFK40-0500W-L27-35-O-24-G(Vivoxy FLEX rail)

5.1 Test Data

Test Ambient Temperature (Integrating sphere internal temperature)	25.0°C	Test orientation	Downward
Operate time(Min.)	30	stabilization time(Min.)	0

Optical and Electrical Measurement Result

Number	Time	Current (A)	Voltage (V)	Power (W)	Flux(lm)	x	y	u'	v'	CCT (K)	Ra
0	00h00m00s	0.5278	24	12.6672	821.34	0.4669	0.4087	0.268	0.5277	2590	93.4
1	00h00m10s	0.5284	24	12.6816	820.99	0.467	0.4087	0.268	0.5277	2588	93.4
2	00h00m20s	0.5288	24	12.6912	820.31	0.467	0.4085	0.2681	0.5276	2588	93.3
3	00h00m30s	0.5291	24	12.6984	820.15	0.467	0.4086	0.268	0.5277	2588	93.3
4	00h00m40s	0.5295	24	12.708	819.24	0.4669	0.4084	0.2681	0.5276	2588	93.3
5	00h00m50s	0.5297	24	12.7128	819.25	0.4669	0.4084	0.2681	0.5276	2588	93.3
6	00h01m00s	0.5299	24	12.7176	818.34	0.4668	0.4083	0.268	0.5275	2588	93.3
7	00h01m10s	0.5302	24	12.7248	818.09	0.4669	0.4083	0.2681	0.5275	2587	93.3
8	00h01m20s	0.5304	24	12.7296	817.95	0.4669	0.4083	0.2681	0.5275	2587	93.3
9	00h01m30s	0.5305	24	12.732	817.97	0.4668	0.4083	0.268	0.5275	2589	93.3
10	00h01m40s	0.5307	24	12.7368	817.41	0.4669	0.4083	0.2681	0.5275	2588	93.3
11	00h01m50s	0.5309	24	12.7416	817.11	0.4669	0.4083	0.2681	0.5275	2587	93.2
12	00h02m00s	0.531	24	12.744	816.39	0.4668	0.4081	0.2681	0.5275	2587	93.3
13	00h02m10s	0.5312	24	12.7488	816.68	0.4667	0.4081	0.2681	0.5274	2588	93.2
14	00h02m20s	0.5313	24	12.7512	816.12	0.4669	0.4082	0.2681	0.5275	2586	93.2
15	00h02m30s	0.5315	24	12.756	816.06	0.4667	0.4081	0.2681	0.5274	2588	93.2
16	00h02m40s	0.5316	24	12.7584	815.24	0.4668	0.4081	0.2681	0.5274	2587	93.2
17	00h02m50s	0.5317	24	12.7608	815.22	0.4668	0.4081	0.2681	0.5275	2587	93.2
18	00h03m00s	0.5319	24	12.7656	815.18	0.4668	0.4081	0.2681	0.5274	2587	93.3
19	00h03m10s	0.532	24	12.768	814.76	0.4667	0.4079	0.2682	0.5273	2586	93.2
20	00h03m20s	0.5321	24	12.7704	814.34	0.4667	0.4081	0.2681	0.5274	2588	93.2
21	00h03m30s	0.5322	24	12.7728	813.68	0.4667	0.4079	0.2682	0.5273	2587	93.2
22	00h03m40s	0.5323	24	12.7752	814.24	0.4667	0.408	0.2682	0.5274	2586	93.2
23	00h03m50s	0.5324	24	12.7776	813.7	0.4669	0.408	0.2682	0.5274	2585	93.2
24	00h04m00s	0.5325	24	12.78	813.4	0.4668	0.408	0.2682	0.5274	2587	93.2

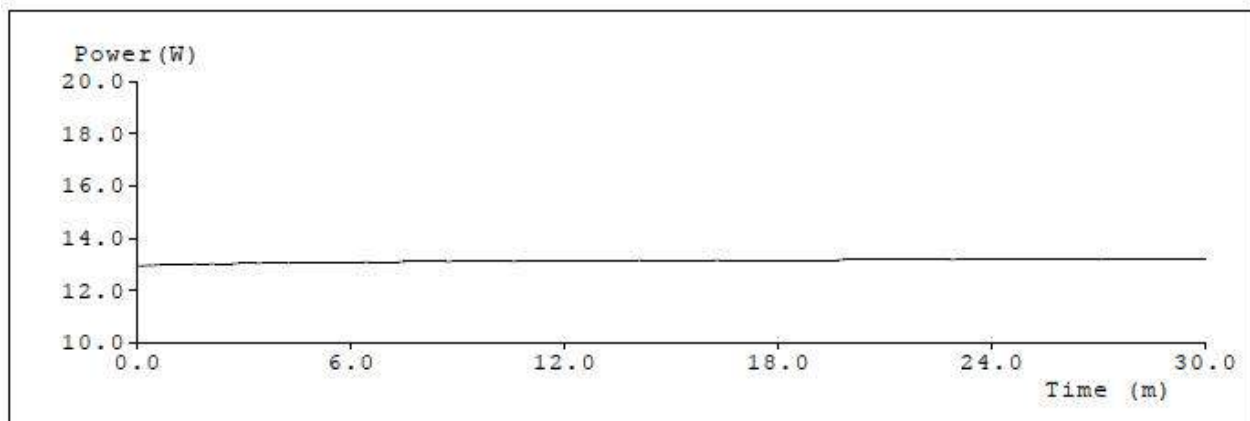
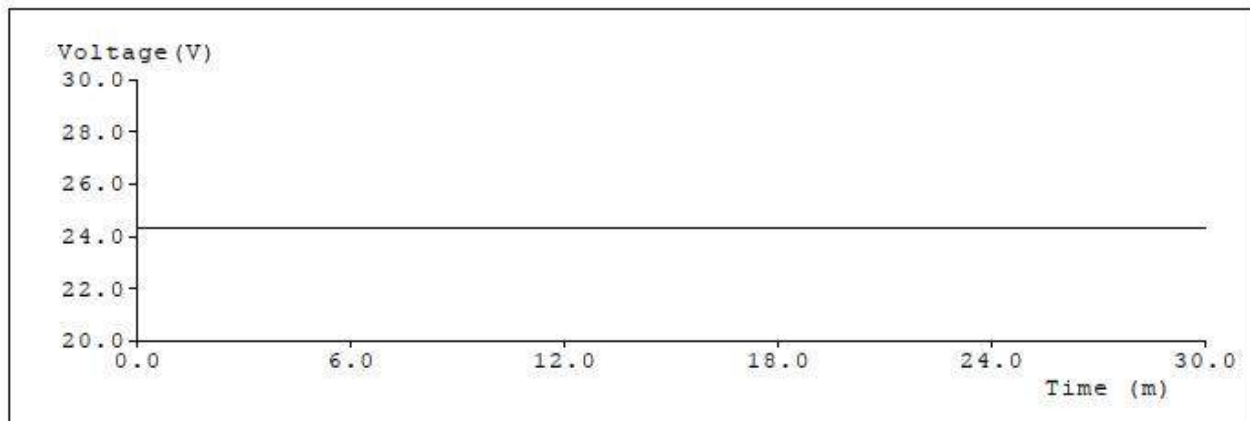
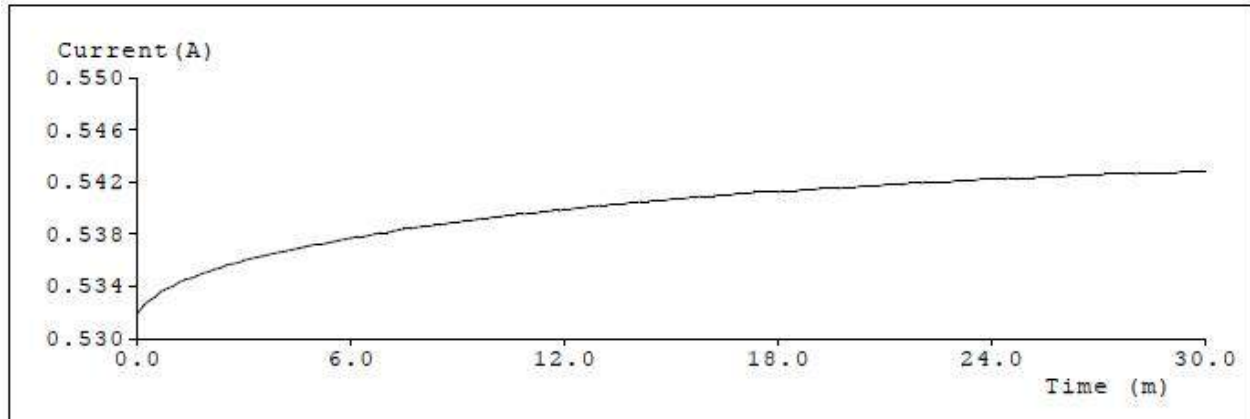
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26	00h04m20s	0.5327	24	12.7848	812.59	0.4667	0.4078	0.2682	0.5273	2586	93.2
27	00h04m30s	0.5328	24	12.7872	812.49	0.4668	0.4079	0.2682	0.5274	2586	93.2
28	00h04m40s	0.5329	24	12.7896	812.28	0.4667	0.4079	0.2682	0.5274	2586	93.2
29	00h04m50s	0.533	24	12.792	812.07	0.4669	0.4079	0.2683	0.5274	2584	93.1
30	00h05m00s	0.5331	24	12.7944	811.57	0.4668	0.4079	0.2682	0.5274	2585	93.2
31	00h05m10s	0.5331	24	12.7944	811.41	0.4668	0.4079	0.2682	0.5274	2586	93.2
32	00h05m20s	0.5332	24	12.7968	810.65	0.4667	0.4077	0.2683	0.5273	2584	93.2
33	00h05m30s	0.5333	24	12.7992	811.07	0.4667	0.4077	0.2683	0.5273	2585	93.1
34	00h05m40s	0.5334	24	12.8016	810.54	0.4667	0.4078	0.2683	0.5273	2585	93.2
35	00h05m50s	0.5335	24	12.804	810.4	0.4667	0.4078	0.2683	0.5273	2585	93.2
36	00h06m00s	0.5336	24	12.8064	810.53	0.4667	0.4077	0.2683	0.5273	2585	93.1
37	00h06m10s	0.5337	24	12.8088	809.78	0.4667	0.4076	0.2683	0.5272	2584	93.2
38	00h06m20s	0.5337	24	12.8088	809.86	0.4666	0.4077	0.2682	0.5273	2586	93.1
39	00h06m30s	0.5338	24	12.8112	809.47	0.4667	0.4078	0.2682	0.5273	2585	93.2
40	00h06m40s	0.5339	24	12.8136	809.33	0.4668	0.4077	0.2683	0.5273	2583	93.1
41	00h06m50s	0.534	24	12.816	809.23	0.4668	0.4076	0.2684	0.5272	2583	93.1
42	00h07m00s	0.534	24	12.816	809.23	0.4667	0.4077	0.2683	0.5273	2584	93.1
43	00h07m10s	0.5341	24	12.8184	808.72	0.4666	0.4076	0.2683	0.5272	2585	93.1
44	00h07m20s	0.5342	24	12.8208	808.76	0.4667	0.4076	0.2683	0.5272	2584	93.1
45	00h07m30s	0.5343	24	12.8232	808.75	0.4667	0.4077	0.2683	0.5273	2584	93.1
46	00h07m40s	0.5343	24	12.8232	808.25	0.4667	0.4075	0.2683	0.5272	2584	93.1
47	00h07m50s	0.5344	24	12.8256	807.64	0.4666	0.4076	0.2683	0.5272	2585	93.1
48	00h08m00s	0.5345	24	12.828	807.86	0.4668	0.4076	0.2684	0.5273	2583	93.1
49	00h08m10s	0.5345	24	12.828	807.38	0.4667	0.4076	0.2683	0.5272	2584	93.1
50	00h08m20s	0.5346	24	12.8304	807.21	0.4668	0.4076	0.2684	0.5272	2583	93.1
51	00h08m30s	0.5346	24	12.8304	806.68	0.4667	0.4075	0.2683	0.5272	2584	93.1
52	00h08m40s	0.5347	24	12.8328	806.98	0.4666	0.4075	0.2683	0.5272	2585	93.1
53	00h08m50s	0.5348	24	12.8352	806.68	0.4667	0.4075	0.2684	0.5272	2583	93.1
54	00h09m00s	0.5348	24	12.8352	806.4	0.4667	0.4075	0.2683	0.5272	2584	93.1
55	00h09m10s	0.5349	24	12.8376	806.01	0.4668	0.4075	0.2684	0.5272	2582	93.1
56	00h09m20s	0.5349	24	12.8376	806.25	0.4667	0.4074	0.2684	0.5272	2583	93.1
57	00h09m30s	0.535	24	12.84	805.91	0.4667	0.4075	0.2684	0.5272	2583	93.1

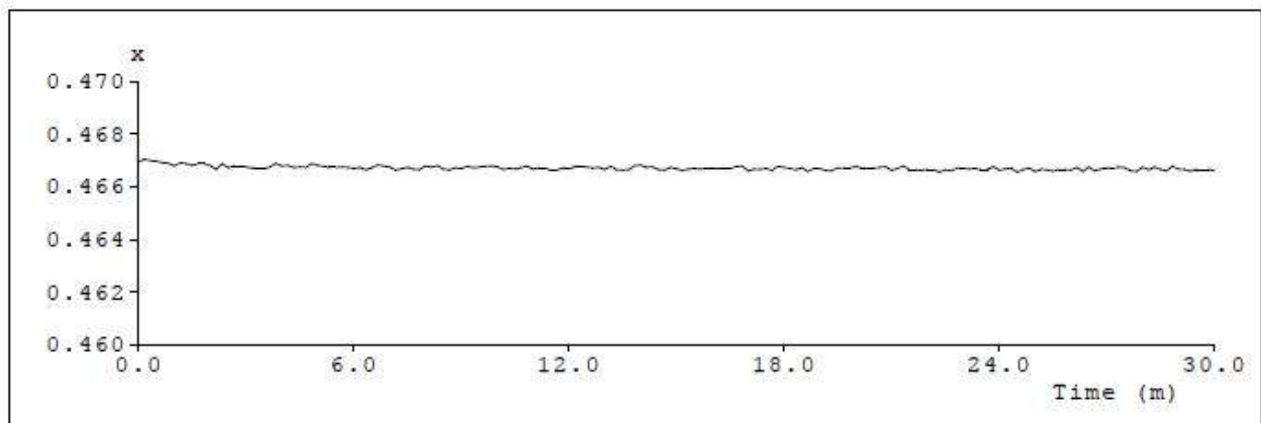
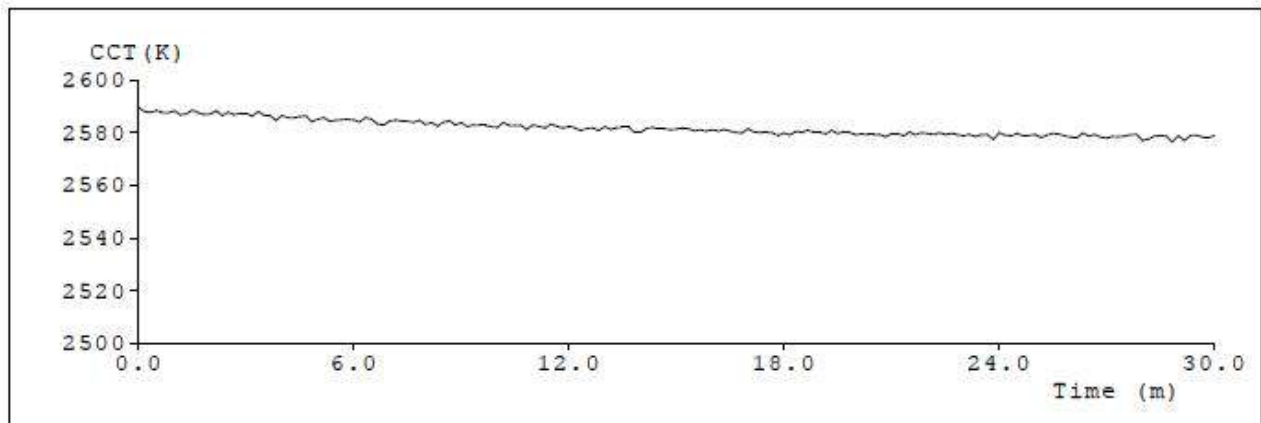
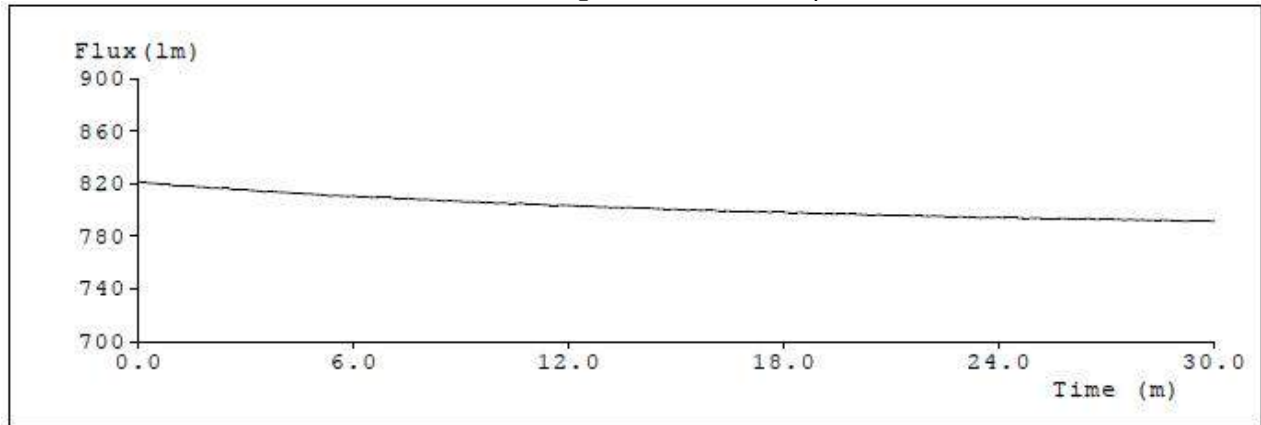
58	00h09m40s	0.5351	24	12.8424	805.5	0.4668	0.4075	0.2684	0.5272	2583	93.1
59	00h09m50s	0.5351	24	12.8424	805.61	0.4668	0.4075	0.2684	0.5272	2582	93
60	00h10m00s	0.5352	24	12.8448	804.99	0.4668	0.4074	0.2684	0.5272	2582	93.1
61	00h10m10s	0.5352	24	12.8448	805.35	0.4667	0.4075	0.2683	0.5272	2584	93.1
62	00h10m20s	0.5353	24	12.8472	804.93	0.4667	0.4074	0.2684	0.5272	2583	93.1
63	00h10m30s	0.5353	24	12.8472	804.96	0.4667	0.4073	0.2684	0.5271	2583	93
64	00h10m40s	0.5354	24	12.8496	805.04	0.4667	0.4074	0.2684	0.5272	2583	93
65	00h10m50s	0.5354	24	12.8496	804.27	0.4668	0.4074	0.2685	0.5272	2581	93
66	00h11m00s	0.5355	24	12.852	804.33	0.4667	0.4074	0.2684	0.5271	2583	93.1
67	00h11m10s	0.5355	24	12.852	804.11	0.4667	0.4074	0.2684	0.5272	2582	93.1
68	00h11m20s	0.5356	24	12.8544	803.93	0.4667	0.4073	0.2685	0.5271	2582	93
69	00h11m30s	0.5356	24	12.8544	803.4	0.4666	0.4073	0.2684	0.5271	2583	93.1
70	00h11m40s	0.5357	24	12.8568	803.31	0.4666	0.4073	0.2684	0.5271	2582	93
71	00h11m50s	0.5357	24	12.8568	803.57	0.4667	0.4073	0.2684	0.5271	2582	93
72	00h12m00s	0.5358	24	12.8592	803.32	0.4667	0.4073	0.2684	0.5271	2582	93.1
73	00h12m10s	0.5358	24	12.8592	803.18	0.4668	0.4074	0.2684	0.5272	2582	93
74	00h12m20s	0.5359	24	12.8616	802.59	0.4668	0.4073	0.2685	0.5271	2581	93
75	00h12m30s	0.5359	24	12.8616	802.69	0.4667	0.4073	0.2685	0.5271	2582	93
76	00h12m40s	0.536	24	12.864	802.7	0.4667	0.4073	0.2684	0.5271	2582	93
77	00h12m50s	0.536	24	12.864	802.13	0.4667	0.4072	0.2685	0.5271	2581	93
78	00h13m00s	0.5361	24	12.8664	802.25	0.4667	0.4072	0.2684	0.5271	2582	93
79	00h13m10s	0.5361	24	12.8664	801.58	0.4668	0.4073	0.2685	0.5271	2581	93
80	00h13m20s	0.5362	24	12.8688	801.71	0.4666	0.4072	0.2685	0.5271	2582	93
81	00h13m30s	0.5362	24	12.8688	801.59	0.4666	0.4072	0.2684	0.5271	2582	93
82	00h13m40s	0.5362	24	12.8688	801.75	0.4666	0.4072	0.2684	0.5271	2582	93
83	00h13m50s	0.5363	24	12.8712	801.55	0.4668	0.4072	0.2685	0.5271	2580	93
84	00h14m00s	0.5363	24	12.8712	801.4	0.4668	0.4073	0.2685	0.5271	2580	93
85	00h14m10s	0.5364	24	12.8736	801.5	0.4667	0.4073	0.2685	0.5271	2582	93
86	00h14m20s	0.5364	24	12.8736	801.15	0.4667	0.4074	0.2684	0.5272	2582	93
87	00h14m30s	0.5365	24	12.876	800.79	0.4667	0.4072	0.2685	0.5271	2582	93
88	00h14m40s	0.5365	24	12.876	800.41	0.4666	0.4071	0.2685	0.527	2582	93
89	00h14m50s	0.5365	24	12.876	800.51	0.4667	0.4072	0.2685	0.5271	2581	93
90	00h15m00s	0.5366	24	12.8784	800.32	0.4667	0.4072	0.2685	0.5271	2581	93

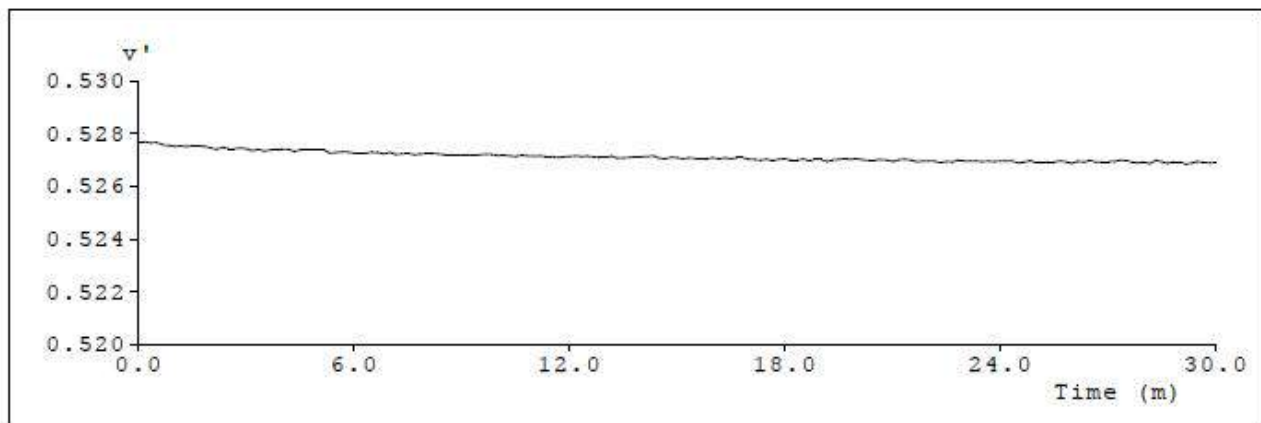
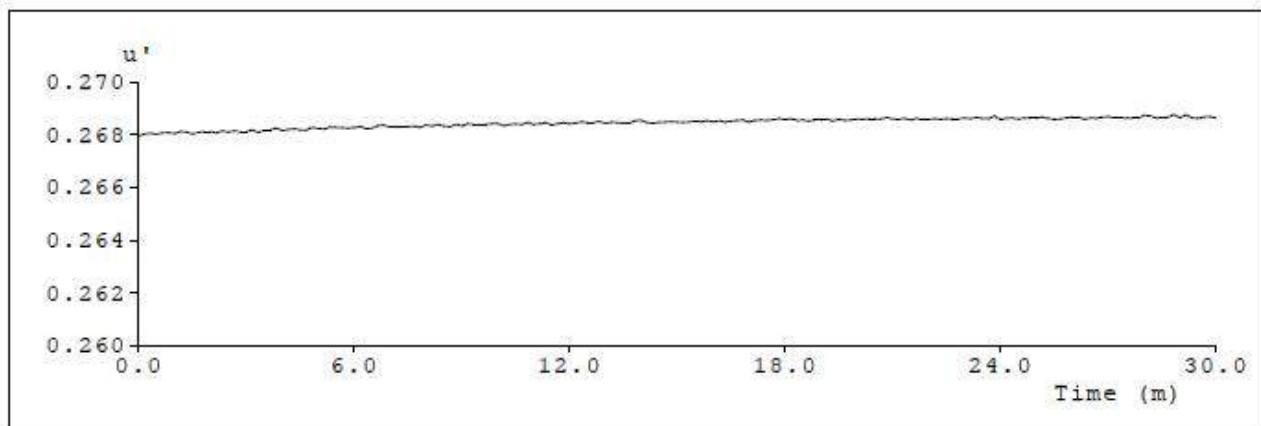
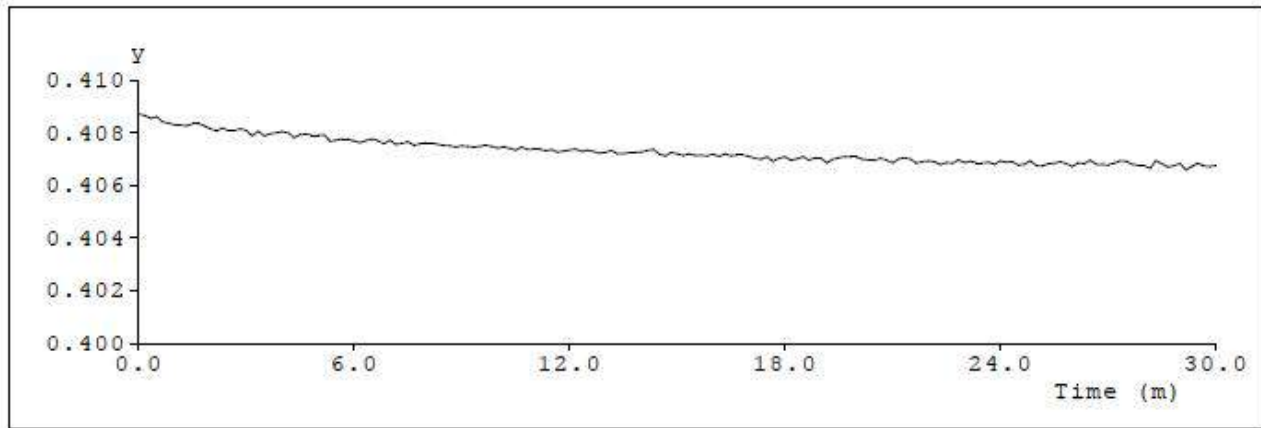
91	00h15m10s	0.5366	24	12.8784	800.08	0.4666	0.4071	0.2685	0.527	2582	93
92	00h15m20s	0.5366	24	12.8784	799.85	0.4667	0.4072	0.2685	0.5271	2581	93
93	00h15m30s	0.5367	24	12.8808	800.05	0.4667	0.4071	0.2685	0.5271	2581	93
94	00h15m40s	0.5367	24	12.8808	799.61	0.4667	0.4071	0.2685	0.5271	2581	93
95	00h15m50s	0.5368	24	12.8832	799.68	0.4667	0.4071	0.2685	0.527	2581	93
96	00h16m00s	0.5368	24	12.8832	799.64	0.4667	0.4072	0.2685	0.5271	2581	93
97	00h16m10s	0.5368	24	12.8832	799.2	0.4667	0.4071	0.2685	0.527	2581	93
98	00h16m20s	0.5369	24	12.8856	799.23	0.4667	0.4072	0.2685	0.5271	2581	93
99	00h16m30s	0.5369	24	12.8856	798.89	0.4667	0.4071	0.2685	0.527	2581	93
100	00h16m40s	0.5369	24	12.8856	799.05	0.4668	0.4072	0.2685	0.5271	2580	92.9
101	00h16m50s	0.537	24	12.888	798.97	0.4668	0.4072	0.2686	0.5271	2580	92.9
102	00h17m00s	0.537	24	12.888	798.97	0.4666	0.4071	0.2685	0.527	2582	93
103	00h17m10s	0.537	24	12.888	798.51	0.4667	0.407	0.2685	0.527	2580	93
104	00h17m20s	0.5371	24	12.8904	798.25	0.4667	0.407	0.2686	0.527	2580	93
105	00h17m30s	0.5371	24	12.8904	798.32	0.4667	0.4071	0.2685	0.527	2580	93
106	00h17m40s	0.5371	24	12.8904	797.86	0.4666	0.4069	0.2686	0.527	2580	92.9
107	00h17m50s	0.5371	24	12.8904	798.01	0.4668	0.407	0.2686	0.527	2579	92.9
108	00h18m00s	0.5371	24	12.8904	797.93	0.4667	0.4071	0.2686	0.527	2580	93
109	00h18m10s	0.5372	24	12.8928	797.77	0.4667	0.4069	0.2686	0.527	2579	93
110	00h18m20s	0.5372	24	12.8928	797.63	0.4666	0.407	0.2685	0.527	2580	93
111	00h18m30s	0.5372	24	12.8928	797.91	0.4667	0.4071	0.2686	0.527	2580	92.9
112	00h18m40s	0.5373	24	12.8952	797.48	0.4666	0.407	0.2685	0.527	2581	93
113	00h18m50s	0.5373	24	12.8952	797.16	0.4667	0.407	0.2686	0.527	2580	92.9
114	00h19m00s	0.5373	24	12.8952	797.26	0.4667	0.407	0.2686	0.527	2580	92.9
115	00h19m10s	0.5374	24	12.8976	796.71	0.4666	0.4069	0.2686	0.5269	2580	93
116	00h19m20s	0.5374	24	12.8976	796.77	0.4666	0.407	0.2685	0.527	2581	93
117	00h19m30s	0.5374	24	12.8976	796.86	0.4667	0.407	0.2686	0.527	2580	92.9
118	00h19m40s	0.5374	24	12.8976	796.82	0.4667	0.4071	0.2685	0.527	2580	92.9
119	00h19m50s	0.5375	24	12.9	796.61	0.4667	0.4071	0.2686	0.527	2580	92.9
120	00h20m00s	0.5375	24	12.9	796.79	0.4668	0.4071	0.2686	0.527	2579	92.9
121	00h20m10s	0.5375	24	12.9	796.53	0.4667	0.407	0.2686	0.527	2580	92.9
122	00h20m20s	0.5376	24	12.9024	796.01	0.4667	0.407	0.2686	0.527	2579	93
123	00h20m30s	0.5376	24	12.9024	796.01	0.4667	0.407	0.2686	0.527	2579	93

124	00h20m40s	0.5376	24	12.9024	796.15	0.4667	0.407	0.2686	0.527	2579	92.9
125	00h20m50s	0.5376	24	12.9024	795.91	0.4668	0.407	0.2686	0.527	2578	92.9
126	00h21m00s	0.5377	24	12.9048	795.68	0.4666	0.4068	0.2686	0.5269	2580	92.9
127	00h21m10s	0.5377	24	12.9048	795.94	0.4667	0.407	0.2686	0.527	2580	92.9
128	00h21m20s	0.5377	24	12.9048	795.77	0.4668	0.407	0.2686	0.527	2579	92.9
129	00h21m30s	0.5377	24	12.9048	795.64	0.4666	0.407	0.2686	0.527	2580	92.9
130	00h21m40s	0.5378	24	12.9072	795.32	0.4666	0.4068	0.2686	0.5269	2579	92.9
131	00h21m50s	0.5378	24	12.9072	795.36	0.4666	0.4069	0.2686	0.527	2580	93
132	00h22m00s	0.5378	24	12.9072	795.25	0.4667	0.4069	0.2686	0.527	2580	92.9
133	00h22m10s	0.5379	24	12.9096	795.41	0.4667	0.4069	0.2686	0.527	2579	93
134	00h22m20s	0.5379	24	12.9096	794.99	0.4666	0.4068	0.2686	0.5269	2580	92.9
135	00h22m30s	0.5379	24	12.9096	794.8	0.4666	0.4069	0.2686	0.5269	2579	92.9
136	00h22m40s	0.5379	24	12.9096	794.81	0.4666	0.4068	0.2686	0.5269	2580	92.9
137	00h22m50s	0.5379	24	12.9096	794.88	0.4667	0.407	0.2686	0.527	2579	92.9
138	00h23m00s	0.538	24	12.912	794.54	0.4667	0.4069	0.2686	0.5269	2579	92.9
139	00h23m10s	0.538	24	12.912	794.15	0.4667	0.4069	0.2686	0.527	2579	92.9
140	00h23m20s	0.538	24	12.912	794.04	0.4667	0.4069	0.2686	0.5269	2579	92.9
141	00h23m30s	0.538	24	12.912	793.92	0.4666	0.4069	0.2686	0.5269	2579	92.9
142	00h23m40s	0.5381	24	12.9144	794.34	0.4666	0.4069	0.2686	0.5269	2579	92.9
143	00h23m50s	0.5381	24	12.9144	794.15	0.4668	0.4068	0.2687	0.5269	2577	92.9
144	00h24m00s	0.5381	24	12.9144	794.28	0.4666	0.4069	0.2686	0.527	2580	92.9
145	00h24m10s	0.5381	24	12.9144	793.88	0.4667	0.4069	0.2686	0.527	2579	92.9
146	00h24m20s	0.5381	24	12.9144	793.9	0.4667	0.4069	0.2686	0.527	2579	92.9
147	00h24m30s	0.5382	24	12.9168	793.91	0.4666	0.4068	0.2686	0.5269	2580	92.9
148	00h24m40s	0.5382	24	12.9168	793.62	0.4666	0.4068	0.2686	0.5269	2579	92.9
149	00h24m50s	0.5382	24	12.9168	793.6	0.4667	0.4069	0.2686	0.527	2579	92.9
150	00h25m00s	0.5382	24	12.9168	793.75	0.4666	0.4067	0.2686	0.5269	2579	92.9
151	00h25m10s	0.5382	24	12.9168	793.48	0.4667	0.4067	0.2687	0.5269	2578	92.9
152	00h25m20s	0.5383	24	12.9192	793.59	0.4666	0.4068	0.2686	0.5269	2579	92.9
153	00h25m30s	0.5383	24	12.9192	793.64	0.4666	0.4068	0.2686	0.5269	2580	92.9
154	00h25m40s	0.5383	24	12.9192	793.58	0.4667	0.4069	0.2686	0.527	2579	92.9
155	00h25m50s	0.5383	24	12.9192	793.38	0.4667	0.4068	0.2686	0.5269	2579	92.9
156	00h26m00s	0.5383	24	12.9192	793.02	0.4666	0.4067	0.2687	0.5269	2578	92.9

157	00h26m10s	0.5384	24	12.9216	792.88	0.4667	0.4068	0.2687	0.527	2578	92.9
158	00h26m20s	0.5384	24	12.9216	793.02	0.4666	0.4068	0.2686	0.5269	2580	92.9
159	00h26m30s	0.5384	24	12.9216	793.23	0.4667	0.407	0.2686	0.527	2579	92.9
160	00h26m40s	0.5384	24	12.9216	792.75	0.4666	0.4068	0.2686	0.5269	2579	92.9
161	00h26m50s	0.5384	24	12.9216	792.56	0.4667	0.4068	0.2687	0.5269	2578	92.9
162	00h27m00s	0.5384	24	12.9216	792.64	0.4667	0.4068	0.2687	0.5269	2578	92.9
163	00h27m10s	0.5385	24	12.924	792.52	0.4667	0.4068	0.2687	0.5269	2579	92.9
164	00h27m20s	0.5385	24	12.924	792.74	0.4668	0.4069	0.2686	0.527	2578	92.9
165	00h27m30s	0.5385	24	12.924	792.14	0.4667	0.4069	0.2686	0.527	2579	92.9
166	00h27m40s	0.5385	24	12.924	792.8	0.4666	0.4068	0.2686	0.5269	2579	92.9
167	00h27m50s	0.5385	24	12.924	792.11	0.4666	0.4068	0.2686	0.5269	2579	92.9
168	00h28m00s	0.5385	24	12.924	792.25	0.4667	0.4067	0.2687	0.5269	2577	92.8
169	00h28m10s	0.5386	24	12.9264	791.9	0.4666	0.4066	0.2687	0.5269	2578	92.9
170	00h28m20s	0.5386	24	12.9264	792.3	0.4667	0.4069	0.2686	0.527	2579	92.9
171	00h28m30s	0.5386	24	12.9264	792.22	0.4667	0.4068	0.2686	0.5269	2579	92.9
172	00h28m40s	0.5386	24	12.9264	792.11	0.4666	0.4067	0.2687	0.5269	2579	92.9
173	00h28m50s	0.5386	24	12.9264	791.89	0.4668	0.4067	0.2688	0.5269	2577	92.9
174	00h29m00s	0.5386	24	12.9264	791.7	0.4667	0.4068	0.2686	0.5269	2579	92.9
175	00h29m10s	0.5386	24	12.9264	791.32	0.4667	0.4066	0.2687	0.5268	2577	92.9
176	00h29m20s	0.5387	24	12.9288	791.58	0.4666	0.4067	0.2686	0.5269	2579	92.9
177	00h29m30s	0.5387	24	12.9288	791.6	0.4666	0.4068	0.2686	0.5269	2579	92.8
178	00h29m40s	0.5387	24	12.9288	791.51	0.4667	0.4067	0.2687	0.5269	2578	92.9
179	00h29m50s	0.5387	24	12.9288	791.53	0.4667	0.4067	0.2687	0.5269	2578	92.8
180	00h30m00s	0.5387	24	12.9288	791.35	0.4666	0.4068	0.2686	0.5269	2579	92.9

Test curves





*5.2 ANSI/IES TM-30-18 Color Rendition Report

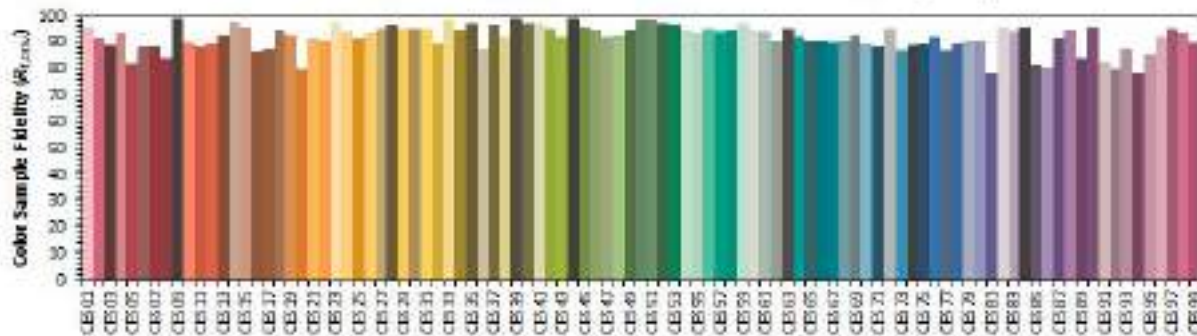
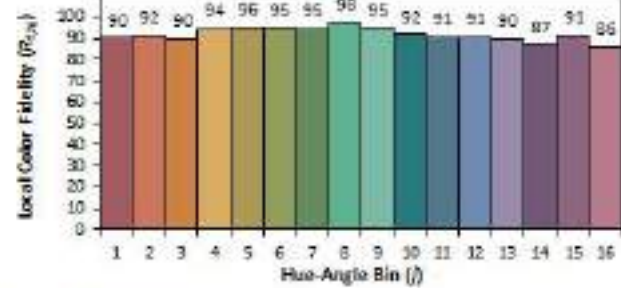
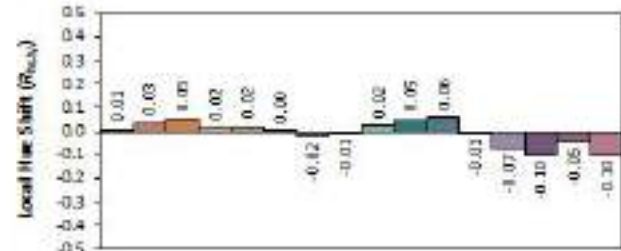
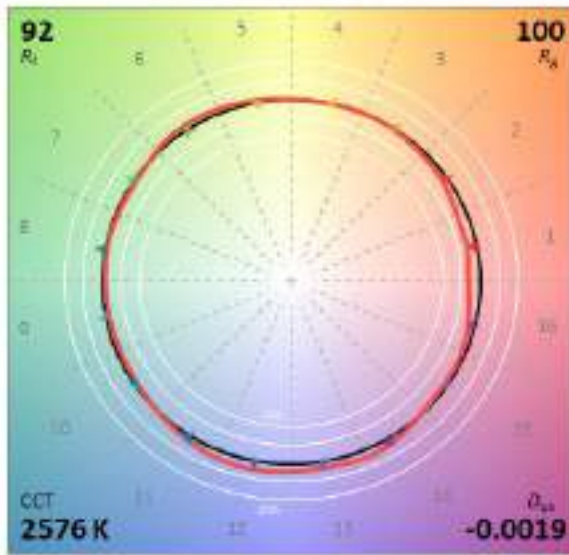
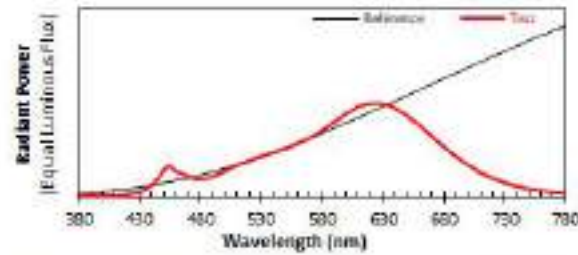
ANSI/IES TM-30-18 Color Rendition Report

Source:

Manufacturer: Guangdong Lunanhub Technology Co., Ltd

Date: 2025/3/18

Model: LVP840-0500V-L27-35-0-24-C (Vivoxo FLEX rail)



Notes: This is a recommended method for displaying ANSI/IES TM-30-18 information.

x 0.4668

y 0.4087

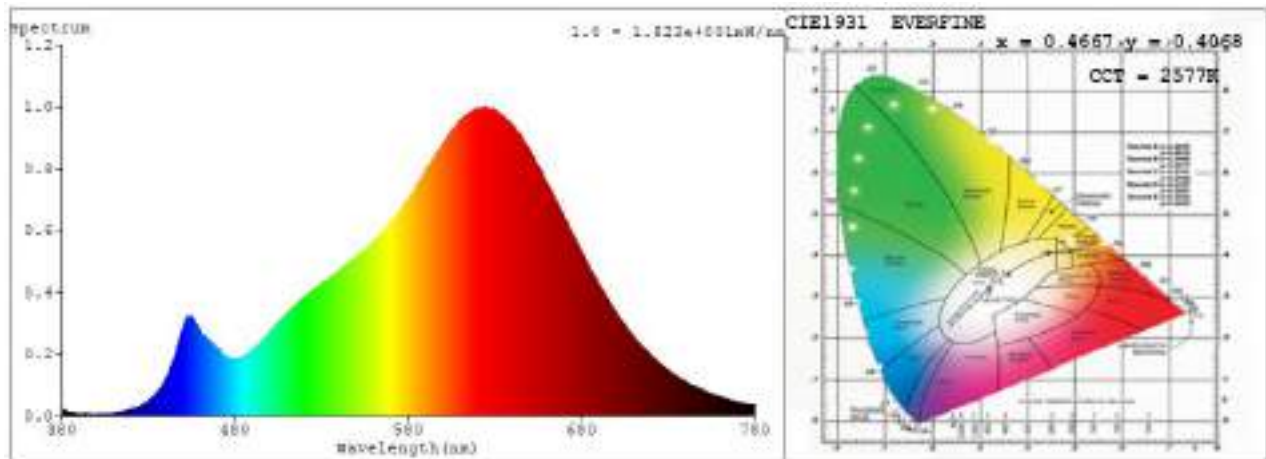
u' 0.2688

v' 0.5269

CIE 13.3-1995
(CRI)R_A 93R_g 58

Colors are for visual orientation purposes only. Created with the ANSI/IES TM-30-18 Calculator Version 2.00.

5.3 Relative Spectral Power Distribution



nm	mW	nm	mW	nm	mW	nm	mW	nm	mW
380	0.0146	414	0.0129	448	0.2449	482	0.1849	516	0.361
381	0.0189	415	0.0131	449	0.2653	483	0.1853	517	0.3652
382	0.0057	416	0.0142	450	0.2866	484	0.1918	518	0.3713
383	0.0108	417	0.0153	451	0.2967	485	0.1938	519	0.3761
384	0.0058	418	0.0179	452	0.3035	486	0.1972	520	0.3809
385	0.0098	419	0.0183	453	0.3153	487	0.1987	521	0.3823
386	0.0089	420	0.0206	454	0.3226	488	0.2037	522	0.3932
387	0.0108	421	0.0225	455	0.3194	489	0.2071	523	0.3955
388	0.0021	422	0.0249	456	0.3094	490	0.2108	524	0.3991
389	0.0043	423	0.0269	457	0.3027	491	0.2181	525	0.4027
390	0.0068	424	0.0305	458	0.2929	492	0.2213	526	0.4103
391	0.0068	425	0.031	459	0.2788	493	0.2277	527	0.4154
392	0.0089	426	0.0337	460	0.2746	494	0.2361	528	0.4194
393	0.0067	427	0.0382	461	0.2607	495	0.2419	529	0.4181
394	0.0042	428	0.0427	462	0.2574	496	0.2445	530	0.4251
395	0.0028	429	0.0443	463	0.257	497	0.2471	531	0.4309
396	0.0085	430	0.0495	464	0.2514	498	0.2612	532	0.4346
397	0.005	431	0.0539	465	0.2406	499	0.2624	533	0.4389
398	0.0046	432	0.0583	466	0.2373	500	0.27	534	0.4408
399	0.0042	433	0.0633	467	0.2324	501	0.2774	535	0.4497
400	0.0025	434	0.0703	468	0.2293	502	0.2836	536	0.45
401	0.0027	435	0.0773	469	0.2229	503	0.2917	537	0.4539
402	0.0048	436	0.0829	470	0.2178	504	0.301	538	0.4599
403	0.0058	437	0.0916	471	0.2108	505	0.3035	539	0.4639
404	0.007	438	0.0966	472	0.2042	506	0.3065	540	0.4693
405	0.005	439	0.1107	473	0.1988	507	0.3159	541	0.469
406	0.0073	440	0.1202	474	0.1934	508	0.3213	542	0.4782
407	0.0045	441	0.1307	475	0.1906	509	0.3239	543	0.4796
408	0.0066	442	0.1425	476	0.1824	510	0.3316	544	0.4849
409	0.0091	443	0.1597	477	0.1824	511	0.3373	545	0.4877
410	0.0096	444	0.1748	478	0.1844	512	0.3451	546	0.4945
411	0.0104	445	0.1896	479	0.184	513	0.3491	547	0.4966
412	0.0123	446	0.2083	480	0.1824	514	0.3514	548	0.5045
413	0.0109	447	0.2252	481	0.1815	515	0.3586	549	0.5099

nm	mW	nm	mW	nm	mW	nm	mW	nm	mW
550	0.5093	599	0.8731	648	0.8758	697	0.3598	746	0.0923
551	0.5171	600	0.8791	649	0.8701	698	0.3511	747	0.0906
552	0.5208	601	0.8939	650	0.8601	699	0.3449	748	0.0875
553	0.53	602	0.9001	651	0.851	700	0.3354	749	0.0864
554	0.5348	603	0.9061	652	0.8402	701	0.3266	750	0.0838
555	0.5376	604	0.9089	653	0.8302	702	0.3163	751	0.0809
556	0.5417	605	0.9212	654	0.8201	703	0.3109	752	0.0785
557	0.5489	606	0.9264	655	0.8083	704	0.3019	753	0.0765
558	0.5588	607	0.9346	656	0.8014	705	0.2968	754	0.0741
559	0.5566	608	0.9375	657	0.786	706	0.2859	755	0.0718
560	0.5656	609	0.9571	658	0.7784	707	0.2809	756	0.0698
561	0.57	610	0.9563	659	0.77	708	0.2723	757	0.0665
562	0.5773	611	0.962	660	0.7561	709	0.2613	758	0.0657
563	0.5812	612	0.9679	661	0.7443	710	0.2561	759	0.0642
564	0.5884	613	0.968	662	0.7344	711	0.2513	760	0.0623
565	0.5956	614	0.9708	663	0.7258	712	0.2452	761	0.0615
566	0.5976	615	0.9831	664	0.7152	713	0.2377	762	0.0593
567	0.6049	616	0.9841	665	0.6995	714	0.2308	763	0.0578
568	0.6105	617	0.9885	666	0.6888	715	0.2238	764	0.0551
569	0.6226	618	0.9805	667	0.6763	716	0.2189	765	0.0542
570	0.6264	619	0.9859	668	0.6683	717	0.2121	766	0.0526
571	0.633	620	0.9929	669	0.6546	718	0.2075	767	0.0504
572	0.6396	621	0.9853	670	0.6404	719	0.2036	768	0.0497
573	0.6503	622	0.9941	671	0.633	720	0.199	769	0.0483
574	0.6509	623	0.9918	672	0.6163	721	0.1891	770	0.0455
575	0.6595	624	0.9932	673	0.6071	722	0.1854	771	0.0452
576	0.6698	625	0.9907	674	0.5956	723	0.1811	772	0.0432
577	0.68	626	0.9951	675	0.5853	724	0.1736	773	0.0427
578	0.6869	627	0.9881	676	0.5763	725	0.1714	774	0.0413
579	0.6935	628	0.992	677	0.5616	726	0.1659	775	0.0403
580	0.7003	629	0.9889	678	0.554	727	0.1608	776	0.0389
581	0.7081	630	0.9858	679	0.5407	728	0.1582	777	0.0377
582	0.7197	631	0.983	680	0.5335	729	0.152	778	0.0361
583	0.7263	632	0.9808	681	0.5187	730	0.1472	779	0.0364
584	0.7354	633	0.9792	682	0.5112	731	0.1424	780	0.0364
585	0.7502	634	0.9726	683	0.4997	732	0.1395		
586	0.7531	635	0.9731	684	0.4869	733	0.1353		
587	0.7614	636	0.9614	685	0.4782	734	0.1306		
588	0.7715	637	0.9599	686	0.468	735	0.1282		
589	0.7874	638	0.9573	687	0.4579	736	0.1237		
590	0.7958	639	0.9489	688	0.4448	737	0.1212		
591	0.7997	640	0.9421	689	0.4404	738	0.116		
592	0.8055	641	0.9354	690	0.4257	739	0.1145		
593	0.8246	642	0.9223	691	0.4153	740	0.1116		
594	0.8285	643	0.915	692	0.409	741	0.1076		
595	0.8349	644	0.9062	693	0.3983	742	0.1049		
596	0.8485	645	0.9052	694	0.3867	743	0.1011		
597	0.8546	646	0.8958	695	0.3797	744	0.099		
598	0.866	647	0.8883	696	0.3673	745	0.0959		

6. Goniophotometer Test results for LVFK40-0500W-L27-35-O-24-G(Vivoxy FLEX rail)

6.1 Test Data

Test Ambient Temperature	25.2°C	Test orientation	Downward
Operate time(Min.)	90	stabilization time(Min.)	30

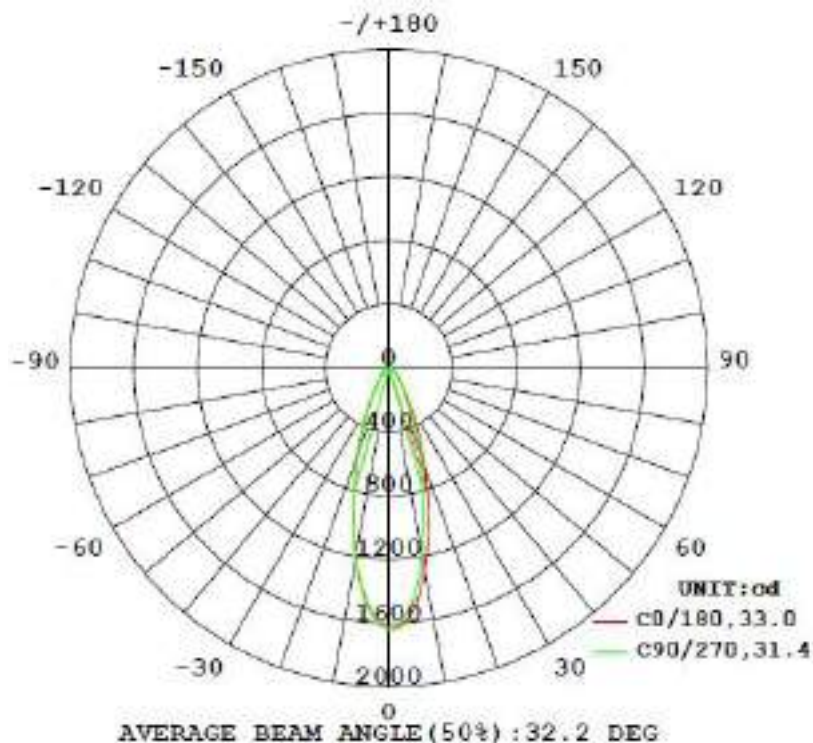
Electrical Measurement

Input Voltage (V)	Frequency (Hz)	Input Current(A)	Power Factor	Power(W)
24	--	0.528	1.0000	12.67

Optical Measurement

Luminous Flux (lm)	Efficacy(lm/W)	I _{max} (cd)	S/MH(C0/180)	S/MH(C90/270)
791.126	62.43	1646	0.52	0.52

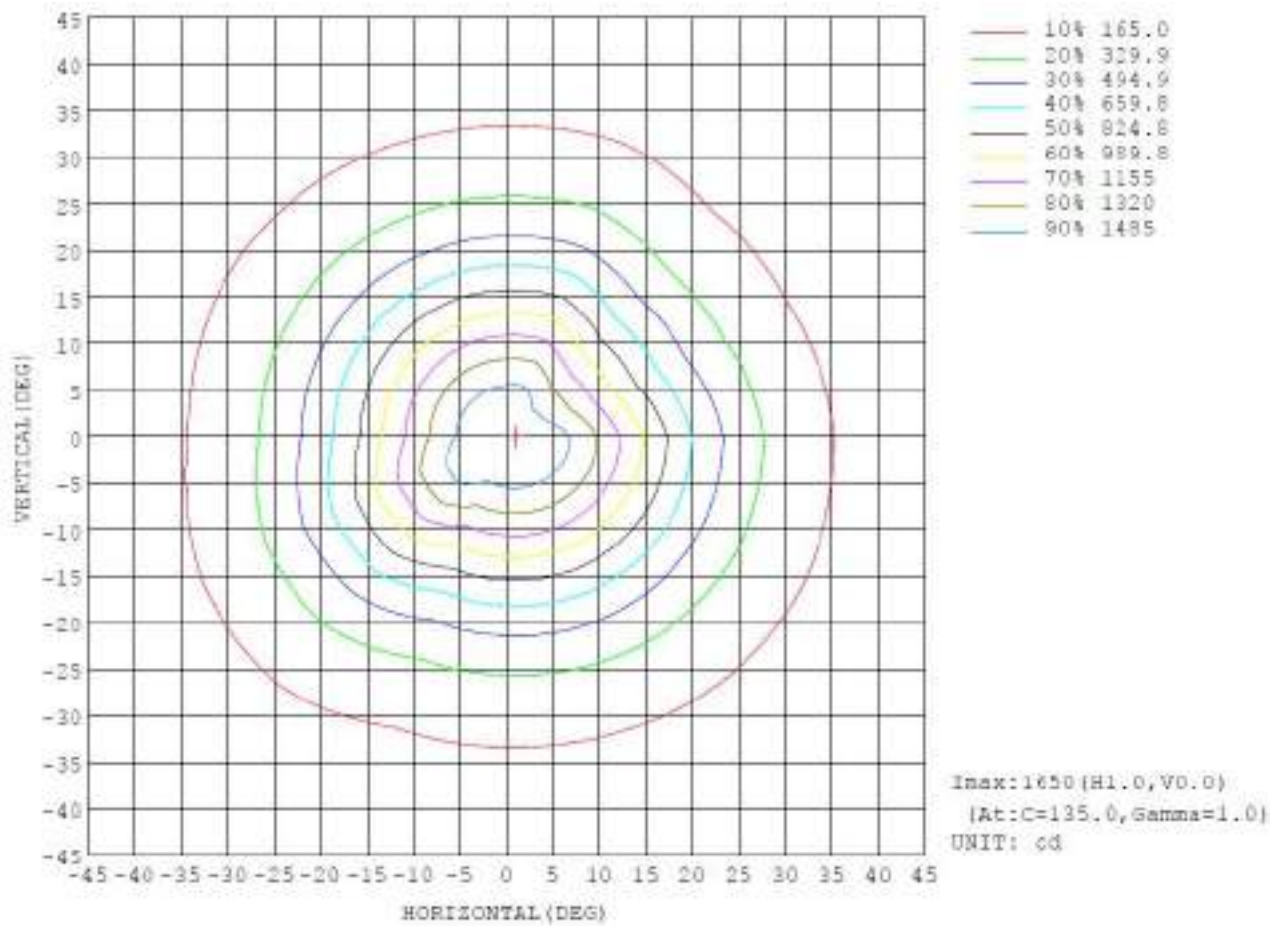
6.2 Luminous Intensity Distribution



6.3 Zonal Flux Diagram

z	C8	C85	C90	C195	C180	C215	C270	C315	z	* sum	* total	*lum, lamp
10	1296	1261	1200	1395	1202	1261	1312	1186	6- 10	186.4	236.4	17.1,17.1
20	635.6	617.0	563.3	671.0	591.2	576.3	566.8	520.7	16- 20	243.1	306.2	40.1,40.1
30	245.8	245.1	219.6	271.5	228.2	227.1	232.1	202.8	26- 30	173.4	255.8	70.3,70.3
40	112.7	108.6	98.62	115.2	103.2	102.4	99.99	83.69	36- 40	80.88	166.8	32.7,32.7
50	57.43	55.32	51.16	61.10	53.74	53.03	53.96	52.47	46- 50	56.68	713.0	30.1,30.1
60	34.28	33.82	32.68	37.40	32.25	34.25	31.88	32.21	56- 60	39.24	752.3	23.1,23.1
70	19.42	18.54	15.89	21.13	18.06	17.48	14.11	15.43	66- 70	20.33	777.6	16.3,16.3
80	7.241	5.114	3.493	4.588	4.897	3.416	1.816	1.561	76- 80	11.13	708.7	19.7,19.7
90	0.1001	0.0326	0.3544	0.2408	0	0	0	0	86- 90	1.223	798.4	19.8,19.8
100	0	0	0	0	0	0	0	0	96-100	4.8032	702.4	18.8,18.8
110	0	0	0	0	0	0	0	0	106-110	0	788.4	18.8,18.8
120	0	0	0	0	0	0	0	0	116-120	0	799.8	19.8,19.8
130	0	0	0	0	0	0	0	0	126-130	0	798.4	19.8,19.8
140	0.0754	0.0259	0.2814	0.0515	0.2138	0.2106	0.1997	0.2619	136-140	1.6328	788.4	18.8,18.8
150	0.2401	0.2554	0.2597	0.2309	0.6346	0.6489	0.6424	0.7210	146-150	0.2558	798.8	19.8,19.8
160	0.9929	0.4031	0.4022	0.3888	0.9987	0.9713	0.9822	1.019	156-160	1.2702	798.8	100,100
170	0.6541	0.4527	0.4497	0.4401	0.6857	0.6869	0.9126	0.8082	166-170	1.1963	792.1	100,100
180	0.6450	0.6359	0.6546	0.6123	0.6422	0.6396	0.6431	0.6196	176-180	0.9629	796.1	100,100
DEC	LUMINOUS INTENSITIES									UNIT:lm		

6.4 Isocandela Diagram



6.5 Luminous Distribution Intensity Data

Table--1

UNIT: cd

θ (DBC) \ φ (DBC)	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5			
0	1635	1635	1635	1635	1635	1635	1635	1635	1635	1635	1635	1635	1635	1635	1635	1635			
5	1556	1554	1544	1525	1509	1500	1509	1579	1492	1491	1493	1500	1509	1523	1450	1465			
10	1296	1290	1261	1227	1200	1190	1335	1331	1202	1202	1201	1202	1212	1233	1135	1160			
15	365	350	323	284	256	244	394	398	263	260	266	264	271	297	202	225			
20	656	647	617	566	523	553	673	683	581	579	576	563	567	590	521	544			
25	422	415	393	368	350	346	430	443	375	371	363	352	355	367	329	347			
30	266	261	245	229	220	219	273	280	238	237	227	221	222	229	203	219			
35	168	168	159	149	145	144	175	178	156	155	148	143	144	148	135	143			
40	113	115	109	101	98.6	98.0	119	120	103	106	102	97.8	99.1	100	93.7	99.0			
45	70.2	68.8	77.9	72.4	71.0	70.8	82.1	84.4	72.9	74.7	72.3	70.9	70.9	72.3	68.4	71.3			
50	57.7	60.0	58.0	55.0	53.2	53.8	61.2	62.2	53.7	55.2	55.0	53.9	53.1	54.9	52.5	54.1			
55	43.9	46.8	45.5	43.0	42.0	42.3	47.3	47.7	41.7	43.0	43.4	42.1	41.2	43.1	41.3	42.5			
60	34.3	37.0	35.8	33.9	32.7	32.9	37.4	37.5	32.3	34.0	34.3	32.0	31.0	33.0	32.2	33.3			
65	26.5	28.5	27.5	24.8	23.8	24.0	29.1	29.1	25.0	26.1	26.0	23.2	22.4	23.8	24.0	25.2			
70	19.4	20.7	19.5	16.6	15.4	15.7	21.1	21.4	18.1	19.0	17.7	14.8	14.1	15.8	15.4	17.7			
75	12.6	13.3	11.8	9.29	8.98	8.68	13.2	14.1	11.6	11.9	9.82	7.46	6.89	7.87	7.72	10.6			
80	7.24	7.15	5.11	3.20	2.45	2.74	6.54	6.26	4.90	4.17	3.42	1.49	1.32	1.70	1.56	4.64			
85	2.93	2.12	0.98	1.03	0.98	0.83	1.29	3.29	2.32	1.22	0.35	0.40	0.43	0.38	0.13	0.28			
90	0.10	0.00	0.03	0.06	0.05	0.03	0.24	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
105	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
115	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
120	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
125	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
130	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
135	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.05	0.05	0.04	0.04	0.03	0.03	0.03			
140	0.08	0.08	0.09	0.09	0.09	0.09	0.05	0.05	0.21	0.22	0.22	0.21	0.20	0.20	0.28	0.27			
145	0.17	0.18	0.18	0.19	0.19	0.19	0.16	0.16	0.43	0.43	0.44	0.43	0.42	0.42	0.50	0.49			
150	0.24	0.25	0.26	0.26	0.26	0.26	0.23	0.23	0.63	0.64	0.64	0.65	0.64	0.64	0.72	0.70			
155	0.34	0.35	0.35	0.36	0.36	0.36	0.32	0.31	0.83	0.83	0.85	0.85	0.85	0.85	0.92	0.90			
160	0.39	0.40	0.40	0.40	0.40	0.40	0.39	0.38	0.96	0.96	0.97	0.98	0.99	1.00	1.02	1.00			
165	0.42	0.42	0.42	0.42	0.42	0.42	0.41	0.40	0.95	0.95	0.96	0.97	0.99	1.00	0.99	0.98			
170	0.45	0.45	0.45	0.45	0.45	0.46	0.44	0.44	0.89	0.89	0.89	0.90	0.91	0.92	0.91	0.91			
175	0.52	0.52	0.52	0.53	0.53	0.53	0.49	0.49	0.78	0.78	0.78	0.79	0.80	0.81	0.76	0.76			
180	0.60	0.64	0.64	0.64	0.65	0.66	0.61	0.61	0.64	0.64	0.64	0.64	0.64	0.66	0.61	0.61			

7. Integrating Sphere Test Results for LVFK40-0500W-L27-35-O-24-G(Vivoxy FLEX rail+shield)

7.1 Test Data

Test Ambient Temperature (Integrating sphere internal temperature)	25.1℃	Test orientation	Downward
Operate time(Min.)	30	stabilization time(Min.)	0

Optical and Electrical Measurement Result

Number	Time	Current (A)	Voltage (V)	Power (W)	Flux(lm)	x	y	u'	v'	CCT (K)	Ra
0	00h00m00s	0.5344	24.298	12.985	723.56	0.4662	0.409	0.2673	0.5277	2601	93.4
1	00h00m10s	0.5348	24.298	12.995	723.01	0.4662	0.4088	0.2674	0.5276	2600	93.4
2	00h00m20s	0.5352	24.298	13.004	722.27	0.4662	0.4088	0.2675	0.5276	2599	93.3
3	00h00m30s	0.5356	24.298	13.014	721.61	0.4662	0.4087	0.2675	0.5276	2599	93.3
4	00h00m40s	0.5359	24.298	13.021	721.08	0.4662	0.4087	0.2675	0.5276	2600	93.3
5	00h00m50s	0.5361	24.298	13.026	720.96	0.4662	0.4087	0.2675	0.5276	2599	93.3
6	00h01m00s	0.5364	24.298	13.033	720.57	0.466	0.4085	0.2675	0.5275	2600	93.3
7	00h01m10s	0.5366	24.298	13.038	720.09	0.4661	0.4084	0.2676	0.5275	2598	93.3
8	00h01m20s	0.5368	24.298	13.043	719.65	0.466	0.4085	0.2675	0.5275	2600	93.3
9	00h01m30s	0.537	24.298	13.048	719.04	0.466	0.4084	0.2675	0.5274	2599	93.3
10	00h01m40s	0.5372	24.298	13.053	719.35	0.4661	0.4085	0.2675	0.5275	2599	93.2
11	00h01m50s	0.5373	24.298	13.055	718.86	0.4659	0.4083	0.2675	0.5274	2600	93.3
12	00h02m00s	0.5375	24.298	13.06	718.47	0.4662	0.4083	0.2676	0.5274	2597	93.2
13	00h02m10s	0.5377	24.298	13.065	718.1	0.4661	0.4083	0.2676	0.5274	2598	93.3
14	00h02m20s	0.5378	24.298	13.067	717.87	0.4661	0.4083	0.2676	0.5274	2598	93.2
15	00h02m30s	0.538	24.298	13.072	717.28	0.4661	0.4081	0.2677	0.5274	2596	93.3
16	00h02m40s	0.5381	24.298	13.075	717.25	0.466	0.4082	0.2676	0.5274	2598	93.2
17	00h02m50s	0.5383	24.298	13.08	716.71	0.466	0.4082	0.2676	0.5273	2598	93.2
18	00h03m00s	0.5384	24.298	13.082	717.07	0.466	0.4082	0.2676	0.5274	2598	93.2
19	00h03m10s	0.5385	24.298	13.084	716.61	0.466	0.4081	0.2676	0.5273	2597	93.2
20	00h03m20s	0.5386	24.298	13.087	716.41	0.466	0.4081	0.2676	0.5273	2597	93.2
21	00h03m30s	0.5388	24.298	13.092	716.31	0.466	0.4081	0.2676	0.5273	2597	93.2
22	00h03m40s	0.5389	24.298	13.094	715.61	0.466	0.408	0.2676	0.5273	2597	93.2
23	00h03m50s	0.539	24.298	13.097	715.6	0.466	0.4081	0.2676	0.5273	2597	93.2

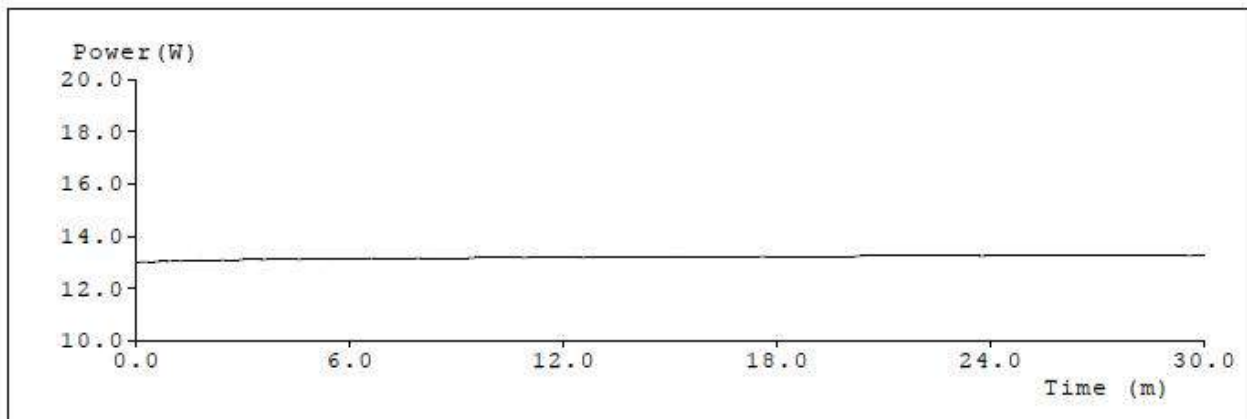
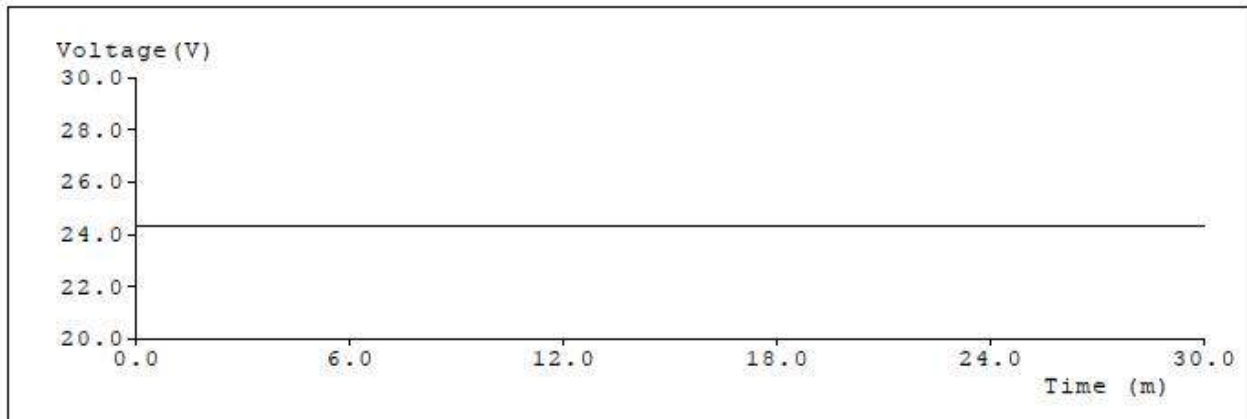
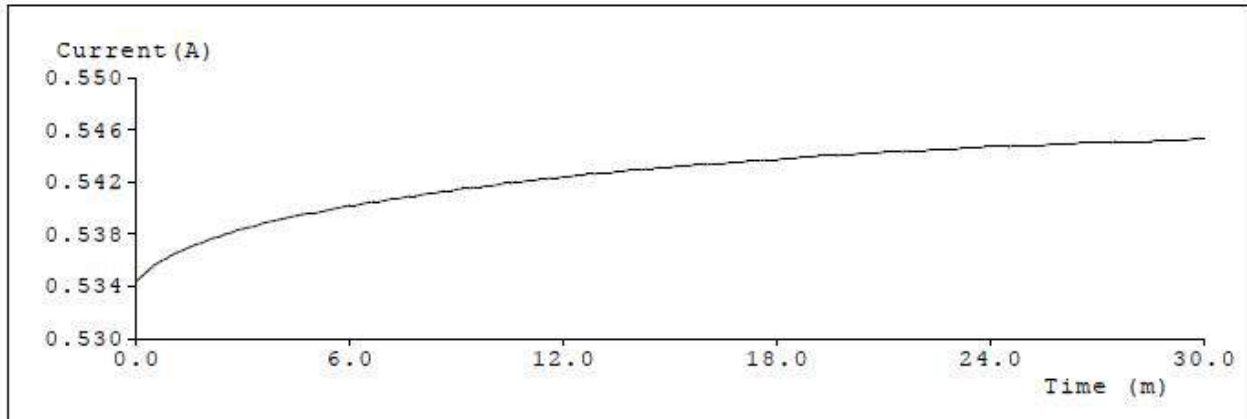
24	00h04m00s	0.5391	24.298	13.099	715.47	0.466	0.408	0.2676	0.5273	2597	93.2
25	00h04m10s	0.5392	24.298	13.101	715.05	0.4661	0.408	0.2677	0.5273	2596	93.2
26	00h04m20s	0.5393	24.298	13.104	714.54	0.4661	0.408	0.2677	0.5273	2595	93.2
27	00h04m30s	0.5394	24.298	13.106	714.5	0.466	0.4079	0.2677	0.5272	2595	93.2
28	00h04m40s	0.5395	24.298	13.109	714.22	0.466	0.4079	0.2677	0.5272	2595	93.2
29	00h04m50s	0.5396	24.298	13.111	714.22	0.4661	0.4081	0.2677	0.5273	2596	93.2
30	00h05m00s	0.5396	24.298	13.111	713.99	0.4661	0.408	0.2677	0.5273	2595	93.2
31	00h05m10s	0.5397	24.298	13.114	713.84	0.4661	0.408	0.2677	0.5273	2595	93.2
32	00h05m20s	0.5398	24.298	13.116	713.29	0.4661	0.4079	0.2678	0.5273	2594	93.1
33	00h05m30s	0.5399	24.298	13.118	713.47	0.466	0.4079	0.2677	0.5272	2596	93.1
34	00h05m40s	0.54	24.298	13.121	712.92	0.4661	0.4079	0.2678	0.5272	2594	93.1
35	00h05m50s	0.5401	24.298	13.123	712.96	0.4661	0.4078	0.2678	0.5272	2594	93.2
36	00h06m00s	0.5402	24.298	13.126	712.54	0.466	0.4078	0.2678	0.5272	2595	93.1
37	00h06m10s	0.5402	24.298	13.126	713.06	0.466	0.4078	0.2678	0.5272	2595	93.1
38	00h06m20s	0.5403	24.298	13.128	712.59	0.466	0.4079	0.2677	0.5272	2595	93.1
39	00h06m30s	0.5404	24.298	13.131	712.32	0.466	0.4078	0.2677	0.5272	2595	93.1
40	00h06m40s	0.5405	24.298	13.133	711.99	0.466	0.4078	0.2677	0.5272	2595	93.2
41	00h06m50s	0.5405	24.298	13.133	711.77	0.4661	0.4078	0.2678	0.5272	2594	93.1
42	00h07m00s	0.5406	24.298	13.135	711.53	0.466	0.4078	0.2678	0.5272	2595	93.1
43	00h07m10s	0.5407	24.298	13.138	711.57	0.4659	0.4077	0.2678	0.5272	2595	93.1
44	00h07m20s	0.5407	24.298	13.138	710.99	0.466	0.4077	0.2678	0.5272	2594	93.2
45	00h07m30s	0.5408	24.298	13.14	710.86	0.466	0.4076	0.2678	0.5272	2594	93.1
46	00h07m40s	0.5409	24.298	13.143	710.86	0.466	0.4077	0.2678	0.5272	2594	93.1
47	00h07m50s	0.5409	24.298	13.143	710.52	0.466	0.4077	0.2678	0.5272	2594	93.1
48	00h08m00s	0.541	24.298	13.145	710.38	0.466	0.4077	0.2678	0.5272	2594	93.1
49	00h08m10s	0.5411	24.298	13.148	710.63	0.4661	0.4078	0.2678	0.5272	2594	93.1
50	00h08m20s	0.5411	24.298	13.148	710.05	0.466	0.4076	0.2678	0.5271	2594	93.1
51	00h08m30s	0.5412	24.298	13.15	709.93	0.466	0.4077	0.2678	0.5272	2594	93.1
52	00h08m40s	0.5413	24.298	13.153	709.68	0.466	0.4076	0.2678	0.5271	2594	93.1
53	00h08m50s	0.5413	24.298	13.153	709.74	0.4661	0.4076	0.2679	0.5272	2593	93.1
54	00h09m00s	0.5414	24.298	13.155	709.43	0.4661	0.4076	0.2679	0.5271	2593	93.1
55	00h09m10s	0.5415	24.298	13.157	709.24	0.466	0.4076	0.2678	0.5271	2594	93.1
56	00h09m20s	0.5415	24.298	13.157	709.1	0.4661	0.4077	0.2679	0.5272	2593	93.1

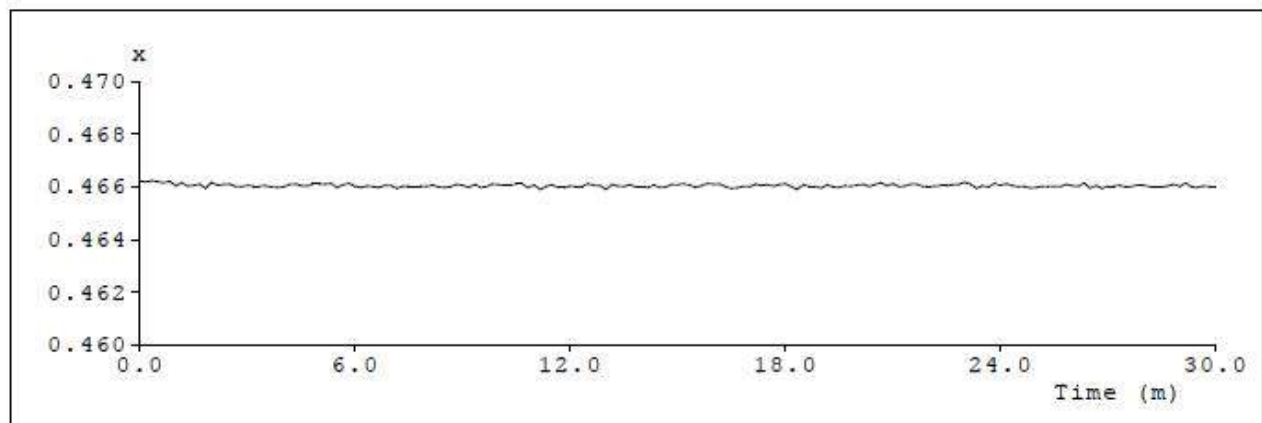
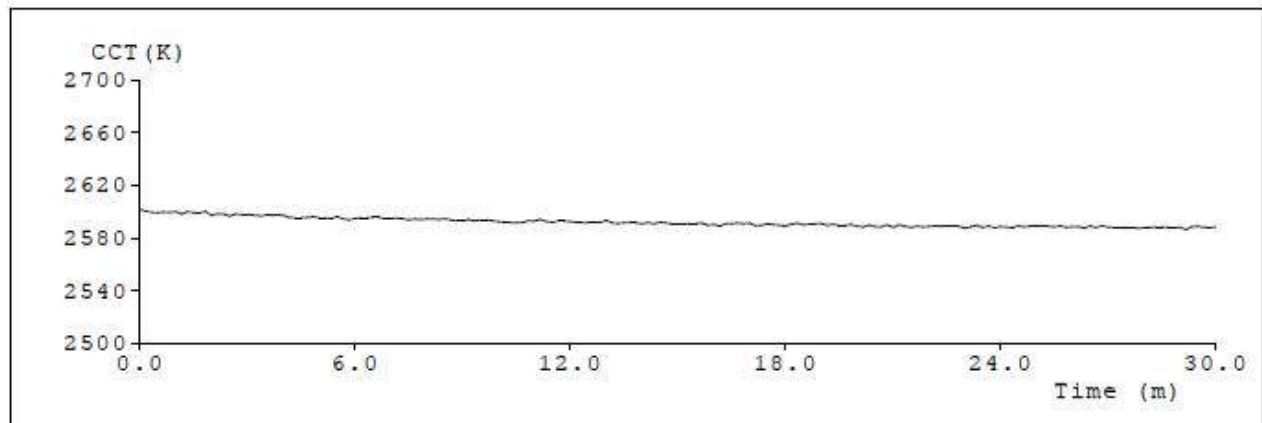
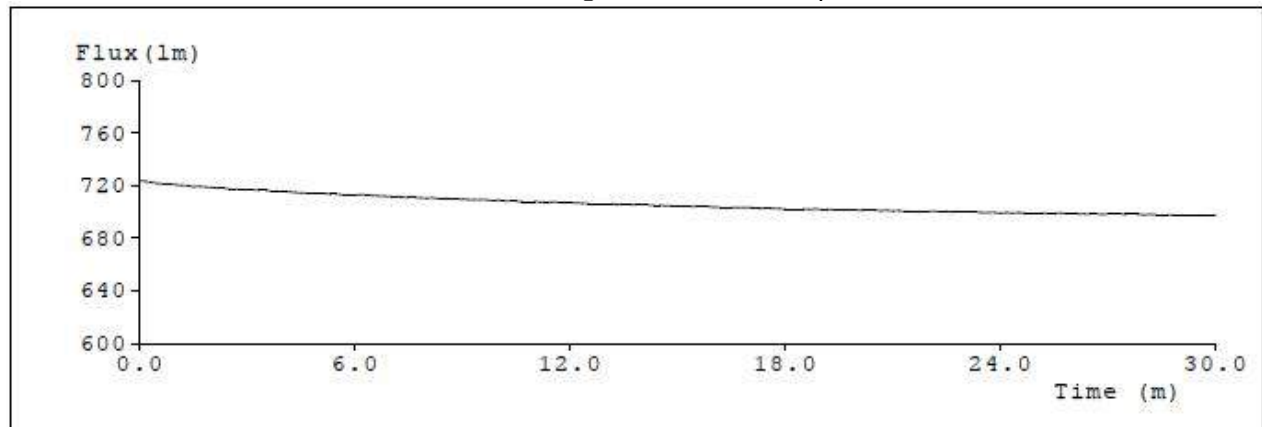
57	00h09m30s	0.5416	24.298	13.16	709.12	0.466	0.4076	0.2678	0.5271	2594	93.1
58	00h09m40s	0.5416	24.298	13.16	708.95	0.466	0.4076	0.2678	0.5271	2594	93.1
59	00h09m50s	0.5417	24.298	13.162	708.57	0.4661	0.4077	0.2679	0.5272	2593	93.1
60	00h10m00s	0.5417	24.298	13.162	708.64	0.4661	0.4076	0.2679	0.5271	2592	93.1
61	00h10m10s	0.5418	24.298	13.165	708.24	0.4661	0.4075	0.2679	0.5271	2592	93.1
62	00h10m20s	0.5419	24.298	13.167	707.86	0.4661	0.4074	0.268	0.5271	2592	93.1
63	00h10m30s	0.5419	24.298	13.167	708.02	0.4661	0.4075	0.268	0.5271	2591	93
64	00h10m40s	0.542	24.298	13.17	707.76	0.4661	0.4075	0.2679	0.5271	2592	93
65	00h10m50s	0.542	24.298	13.17	707.77	0.466	0.4075	0.2679	0.5271	2593	93
66	00h11m00s	0.5421	24.298	13.172	707.69	0.4661	0.4076	0.2679	0.5271	2593	93.1
67	00h11m10s	0.5421	24.298	13.172	707.57	0.4659	0.4075	0.2678	0.5271	2594	93
68	00h11m20s	0.5422	24.298	13.174	707.02	0.466	0.4075	0.2679	0.5271	2592	93.1
69	00h11m30s	0.5422	24.298	13.174	707.46	0.4661	0.4075	0.2679	0.5271	2592	93
70	00h11m40s	0.5423	24.298	13.177	707.17	0.466	0.4074	0.2679	0.5271	2593	93
71	00h11m50s	0.5423	24.298	13.177	707.09	0.466	0.4074	0.2679	0.5271	2593	93.1
72	00h12m00s	0.5424	24.298	13.179	706.86	0.466	0.4075	0.2679	0.5271	2592	93.1
73	00h12m10s	0.5424	24.298	13.179	706.77	0.466	0.4074	0.2679	0.5271	2592	93
74	00h12m20s	0.5425	24.298	13.182	706.54	0.466	0.4074	0.268	0.527	2591	93.1
75	00h12m30s	0.5425	24.298	13.182	706.24	0.4661	0.4075	0.268	0.5271	2591	93
76	00h12m40s	0.5426	24.298	13.184	706.09	0.466	0.4074	0.268	0.5271	2591	93.1
77	00h12m50s	0.5426	24.298	13.184	706.15	0.466	0.4074	0.268	0.5271	2591	93
78	00h13m00s	0.5427	24.298	13.187	706.08	0.4659	0.4074	0.2679	0.5271	2593	93.1
79	00h13m10s	0.5427	24.298	13.187	706.17	0.4661	0.4075	0.268	0.5271	2591	93
80	00h13m20s	0.5427	24.298	13.187	705.37	0.466	0.4073	0.268	0.527	2591	93
81	00h13m30s	0.5428	24.298	13.189	705.59	0.466	0.4074	0.268	0.527	2592	93
82	00h13m40s	0.5428	24.298	13.189	705.56	0.4661	0.4074	0.268	0.5271	2591	93
83	00h13m50s	0.5429	24.298	13.191	705.14	0.466	0.4073	0.268	0.527	2591	93.1
84	00h14m00s	0.5429	24.298	13.191	705.14	0.466	0.4072	0.268	0.527	2591	93
85	00h14m10s	0.5429	24.298	13.191	705.02	0.466	0.4073	0.268	0.527	2592	93
86	00h14m20s	0.543	24.298	13.194	704.96	0.4661	0.4074	0.268	0.527	2591	93
87	00h14m30s	0.543	24.298	13.194	704.87	0.466	0.4073	0.268	0.527	2592	93
88	00h14m40s	0.5431	24.298	13.196	704.6	0.466	0.4073	0.268	0.527	2591	93
89	00h14m50s	0.5431	24.298	13.196	704.41	0.4661	0.4074	0.268	0.527	2590	93

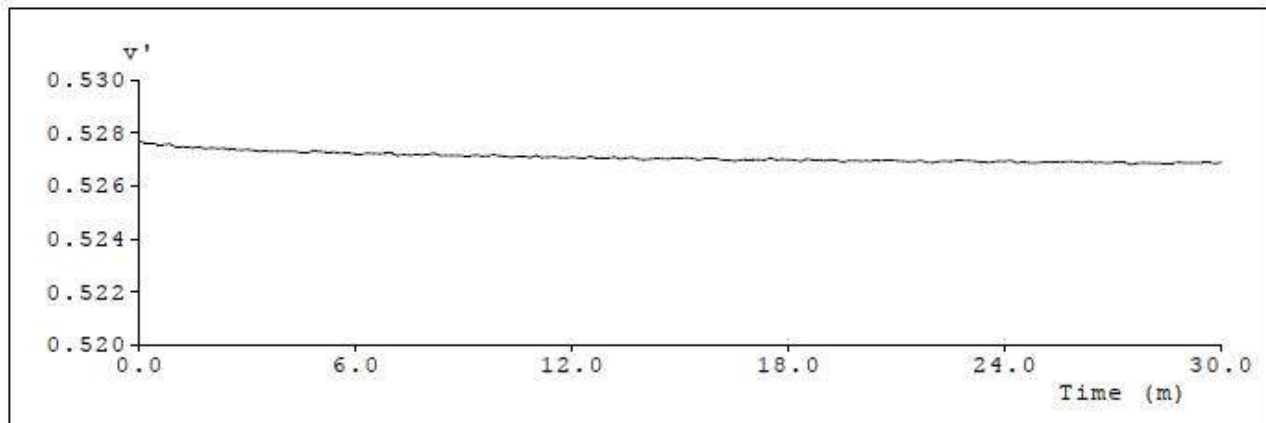
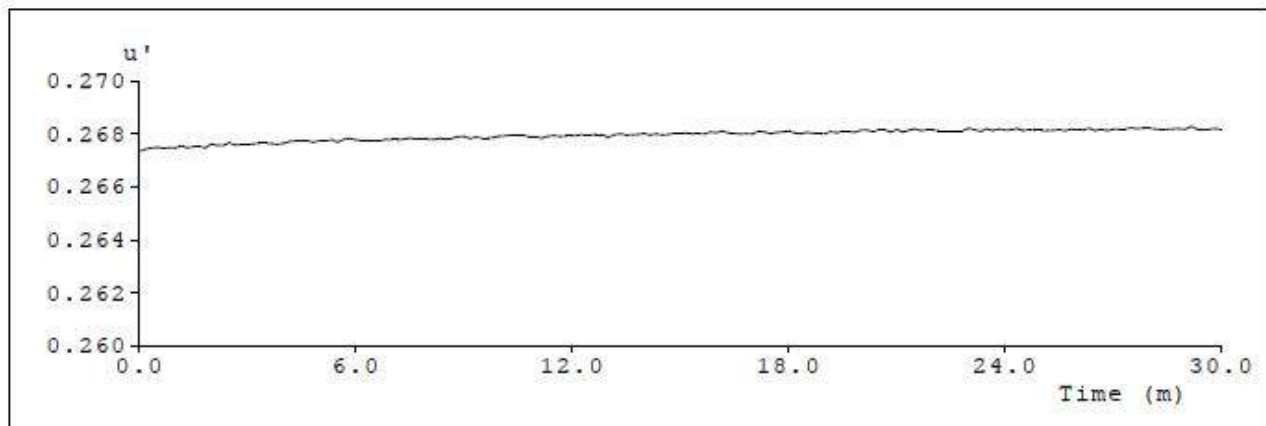
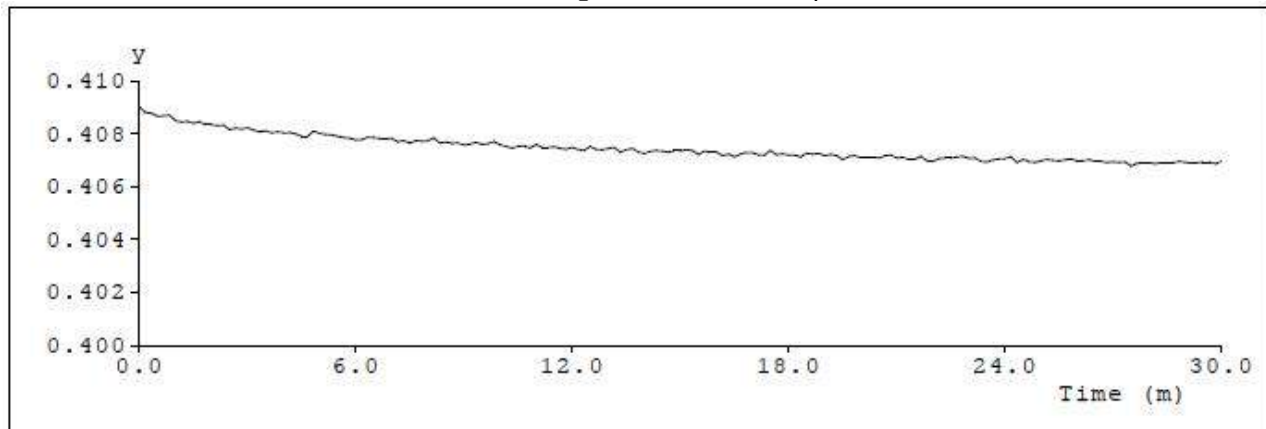
90	00h15m00s	0.5431	24.298	13.196	704.38	0.4661	0.4074	0.268	0.527	2590	93
91	00h15m10s	0.5432	24.298	13.199	704.05	0.4661	0.4074	0.268	0.5271	2590	93
92	00h15m20s	0.5432	24.298	13.199	704.1	0.4661	0.4074	0.268	0.527	2591	93
93	00h15m30s	0.5432	24.298	13.199	703.89	0.466	0.4072	0.268	0.527	2591	93
94	00h15m40s	0.5433	24.298	13.201	703.91	0.466	0.4073	0.268	0.527	2591	93
95	00h15m50s	0.5433	24.298	13.201	703.89	0.4661	0.4073	0.2681	0.527	2590	93
96	00h16m00s	0.5433	24.298	13.201	703.54	0.4661	0.4073	0.268	0.527	2590	93
97	00h16m10s	0.5434	24.298	13.204	703.37	0.4661	0.4072	0.2681	0.527	2589	93
98	00h16m20s	0.5434	24.298	13.204	703.32	0.466	0.4072	0.268	0.527	2591	93
99	00h16m30s	0.5434	24.298	13.204	703.35	0.4659	0.4071	0.268	0.5269	2591	93
100	00h16m40s	0.5435	24.298	13.206	703.07	0.466	0.4072	0.268	0.527	2591	93
101	00h16m50s	0.5435	24.298	13.206	703.35	0.466	0.4073	0.268	0.527	2591	93
102	00h17m00s	0.5435	24.298	13.206	702.99	0.466	0.4073	0.268	0.527	2591	93
103	00h17m10s	0.5436	24.298	13.208	702.92	0.4661	0.4072	0.2681	0.527	2589	93
104	00h17m20s	0.5436	24.298	13.208	702.46	0.4661	0.4072	0.2681	0.527	2590	92.9
105	00h17m30s	0.5436	24.298	13.208	702.71	0.4661	0.4074	0.268	0.5271	2591	93
106	00h17m40s	0.5437	24.298	13.211	702.66	0.466	0.4072	0.2681	0.527	2590	93
107	00h17m50s	0.5437	24.298	13.211	702.33	0.4661	0.4072	0.2681	0.527	2590	93
108	00h18m00s	0.5437	24.298	13.211	702.16	0.4661	0.4072	0.2681	0.527	2589	93
109	00h18m10s	0.5438	24.298	13.213	702.15	0.466	0.4072	0.268	0.527	2590	93
110	00h18m20s	0.5438	24.298	13.213	702.06	0.4659	0.4071	0.268	0.5269	2591	93
111	00h18m30s	0.5438	24.298	13.213	702.18	0.4661	0.4073	0.2681	0.527	2590	93
112	00h18m40s	0.5439	24.298	13.216	701.92	0.466	0.4072	0.268	0.527	2590	93
113	00h18m50s	0.5439	24.298	13.216	702.06	0.466	0.4072	0.268	0.527	2591	92.9
114	00h19m00s	0.5439	24.298	13.216	701.92	0.4659	0.4072	0.268	0.527	2591	92.9
115	00h19m10s	0.544	24.298	13.218	701.87	0.4661	0.4072	0.2681	0.527	2589	93
116	00h19m20s	0.544	24.298	13.218	701.67	0.466	0.4072	0.268	0.527	2590	93
117	00h19m30s	0.544	24.298	13.218	701.21	0.466	0.407	0.2681	0.5269	2589	93
118	00h19m40s	0.544	24.298	13.218	701.41	0.466	0.4071	0.2681	0.527	2589	92.9
119	00h19m50s	0.5441	24.298	13.221	701.28	0.466	0.4072	0.2681	0.527	2590	93
120	00h20m00s	0.5441	24.298	13.221	701.25	0.4661	0.4071	0.2681	0.5269	2589	92.9
121	00h20m10s	0.5441	24.298	13.221	700.94	0.4661	0.4071	0.2681	0.527	2588	93
122	00h20m20s	0.5442	24.298	13.223	701.05	0.466	0.4071	0.2681	0.5269	2589	93

123	00h20m30s	0.5442	24.298	13.223	700.92	0.4661	0.4071	0.2681	0.5269	2588	93
124	00h20m40s	0.5442	24.298	13.223	700.72	0.4661	0.4072	0.2681	0.527	2588	92.9
125	00h20m50s	0.5442	24.298	13.223	700.94	0.466	0.4072	0.2681	0.527	2590	92.9
126	00h21m00s	0.5443	24.298	13.225	700.43	0.4661	0.4071	0.2682	0.5269	2588	93
127	00h21m10s	0.5443	24.298	13.225	700.64	0.466	0.4071	0.2681	0.5269	2590	93
128	00h21m20s	0.5443	24.298	13.225	700.33	0.466	0.407	0.2681	0.5269	2589	93
129	00h21m30s	0.5443	24.298	13.225	700.35	0.4661	0.407	0.2682	0.5269	2588	92.9
130	00h21m40s	0.5444	24.298	13.228	700.33	0.4661	0.4071	0.2681	0.527	2589	92.9
131	00h21m50s	0.5444	24.298	13.228	700.32	0.466	0.407	0.2681	0.5269	2588	93
132	00h22m00s	0.5444	24.298	13.228	700.23	0.466	0.4069	0.2681	0.5269	2589	92.9
133	00h22m10s	0.5444	24.298	13.228	700.41	0.466	0.4071	0.2681	0.5269	2589	93
134	00h22m20s	0.5445	24.298	13.23	699.96	0.466	0.4071	0.2681	0.5269	2589	92.9
135	00h22m30s	0.5445	24.298	13.23	700.06	0.466	0.4071	0.2681	0.5269	2589	92.9
136	00h22m40s	0.5445	24.298	13.23	699.78	0.4661	0.4071	0.2681	0.527	2589	92.9
137	00h22m50s	0.5445	24.298	13.23	699.73	0.4661	0.4071	0.2681	0.527	2589	92.9
138	00h23m00s	0.5445	24.298	13.23	699.71	0.4662	0.4071	0.2682	0.5269	2587	92.9
139	00h23m10s	0.5446	24.298	13.233	699.69	0.4661	0.4071	0.2681	0.5269	2588	92.9
140	00h23m20s	0.5446	24.298	13.233	699.7	0.4659	0.407	0.2681	0.5269	2589	93
141	00h23m30s	0.5446	24.298	13.233	699.35	0.466	0.4069	0.2682	0.5269	2588	92.9
142	00h23m40s	0.5446	24.298	13.233	699.52	0.466	0.407	0.2681	0.5269	2589	92.9
143	00h23m50s	0.5447	24.298	13.235	699.28	0.4661	0.407	0.2682	0.5269	2587	92.9
144	00h24m00s	0.5447	24.298	13.235	699.09	0.4661	0.4071	0.2681	0.5269	2589	92.9
145	00h24m10s	0.5447	24.298	13.235	699.28	0.4661	0.4071	0.2681	0.527	2588	92.9
146	00h24m20s	0.5447	24.298	13.235	699.07	0.466	0.4069	0.2682	0.5269	2588	92.9
147	00h24m30s	0.5447	24.298	13.235	699.14	0.466	0.407	0.2681	0.5269	2589	92.9
148	00h24m40s	0.5448	24.298	13.238	698.9	0.466	0.4069	0.2682	0.5269	2588	92.9
149	00h24m50s	0.5448	24.298	13.238	698.93	0.466	0.4069	0.2681	0.5269	2589	92.9
150	00h25m00s	0.5448	24.298	13.238	698.97	0.466	0.407	0.2681	0.5269	2589	92.9
151	00h25m10s	0.5448	24.298	13.238	698.95	0.466	0.407	0.2681	0.5269	2589	92.9
152	00h25m20s	0.5448	24.298	13.238	698.83	0.466	0.407	0.2681	0.5269	2589	92.9
153	00h25m30s	0.5448	24.298	13.238	698.83	0.466	0.407	0.2682	0.5269	2588	92.9
154	00h25m40s	0.5449	24.298	13.24	698.99	0.466	0.407	0.2681	0.5269	2589	92.9
155	00h25m50s	0.5449	24.298	13.24	698.76	0.4661	0.407	0.2682	0.5269	2588	92.9

156	00h26m00s	0.5449	24.298	13.24	698.45	0.466	0.407	0.2682	0.5269	2588	92.9
157	00h26m10s	0.5449	24.298	13.24	698.45	0.466	0.407	0.2681	0.5269	2589	92.9
158	00h26m20s	0.5449	24.298	13.24	698.14	0.4661	0.407	0.2682	0.5269	2587	92.9
159	00h26m30s	0.545	24.298	13.242	698.36	0.466	0.4069	0.2681	0.5269	2589	92.9
160	00h26m40s	0.545	24.298	13.242	698.43	0.466	0.4069	0.2682	0.5269	2588	92.9
161	00h26m50s	0.545	24.298	13.242	698.04	0.4659	0.4069	0.2681	0.5269	2589	92.9
162	00h27m00s	0.545	24.298	13.242	698.19	0.466	0.4069	0.2682	0.5269	2588	92.9
163	00h27m10s	0.545	24.298	13.242	698.1	0.466	0.4069	0.2682	0.5269	2588	92.9
164	00h27m20s	0.545	24.298	13.242	698.13	0.4661	0.4069	0.2682	0.5269	2588	92.9
165	00h27m30s	0.5451	24.298	13.245	697.86	0.466	0.4068	0.2682	0.5268	2587	92.9
166	00h27m40s	0.5451	24.298	13.245	697.97	0.466	0.4069	0.2682	0.5269	2588	92.9
167	00h27m50s	0.5451	24.298	13.245	697.92	0.4661	0.4069	0.2682	0.5269	2587	92.9
168	00h28m00s	0.5451	24.298	13.245	697.8	0.4661	0.4069	0.2682	0.5269	2587	92.9
169	00h28m10s	0.5451	24.298	13.245	697.82	0.466	0.4069	0.2682	0.5268	2588	92.9
170	00h28m20s	0.5451	24.298	13.245	697.64	0.466	0.4069	0.2682	0.5269	2588	92.9
171	00h28m30s	0.5451	24.298	13.245	697.65	0.466	0.4069	0.2682	0.5269	2588	92.9
172	00h28m40s	0.5452	24.298	13.247	697.63	0.466	0.4069	0.2682	0.5269	2588	92.9
173	00h28m50s	0.5452	24.298	13.247	697.52	0.4661	0.407	0.2682	0.5269	2587	92.8
174	00h29m00s	0.5452	24.298	13.247	697.55	0.466	0.4069	0.2682	0.5269	2588	92.9
175	00h29m10s	0.5452	24.298	13.247	697.45	0.4661	0.4069	0.2683	0.5269	2586	92.9
176	00h29m20s	0.5452	24.298	13.247	697.31	0.466	0.4069	0.2682	0.5269	2588	92.9
177	00h29m30s	0.5452	24.298	13.247	697.38	0.466	0.4069	0.2681	0.5269	2589	92.9
178	00h29m40s	0.5453	24.298	13.25	697.54	0.466	0.4069	0.2682	0.5269	2588	92.9
179	00h29m50s	0.5453	24.298	13.25	697.25	0.466	0.4069	0.2682	0.5268	2588	92.9
180	00h30m00s	0.5453	24.298	13.25	697.4	0.466	0.407	0.2682	0.5269	2588	92.9

Test curves





*7.2 ANSI/IES TM-30-18 Color Rendition Report

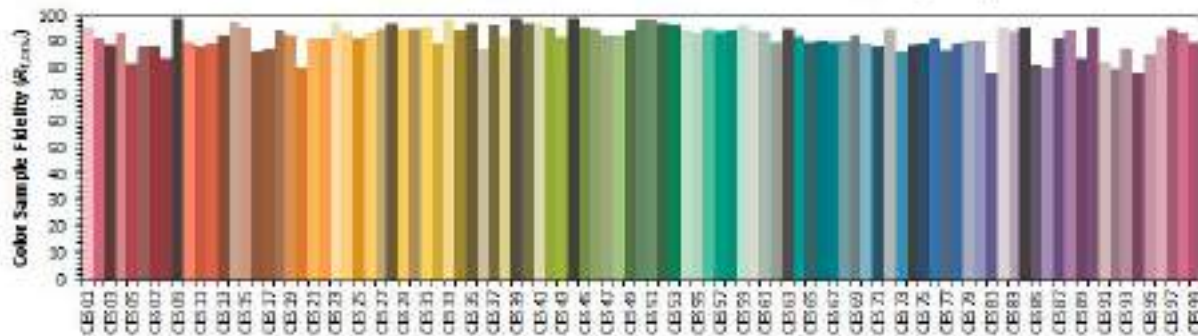
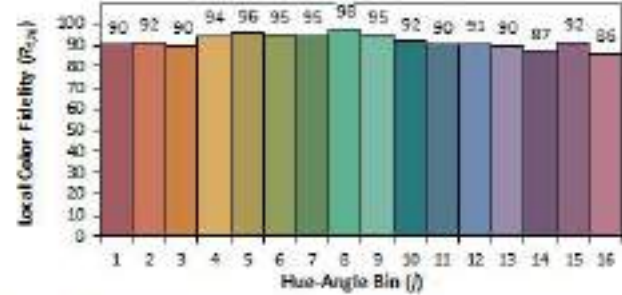
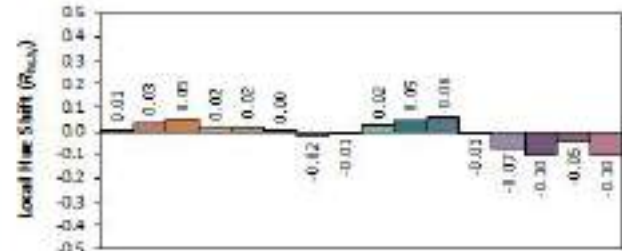
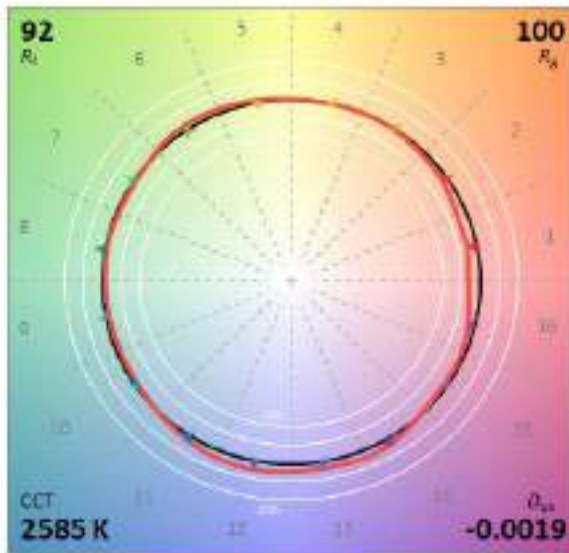
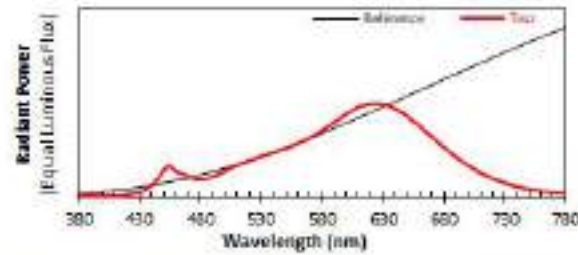
ANSI/IES TM-30-18 Color Rendition Report

Source:

Date: 2025/3/18

Manufacturer: Guangdong Lunshub Technology Co., Ltd

Model: LVP840-0500V-L27-35-0-24-C (Vivoxo FLEX rail+shield)

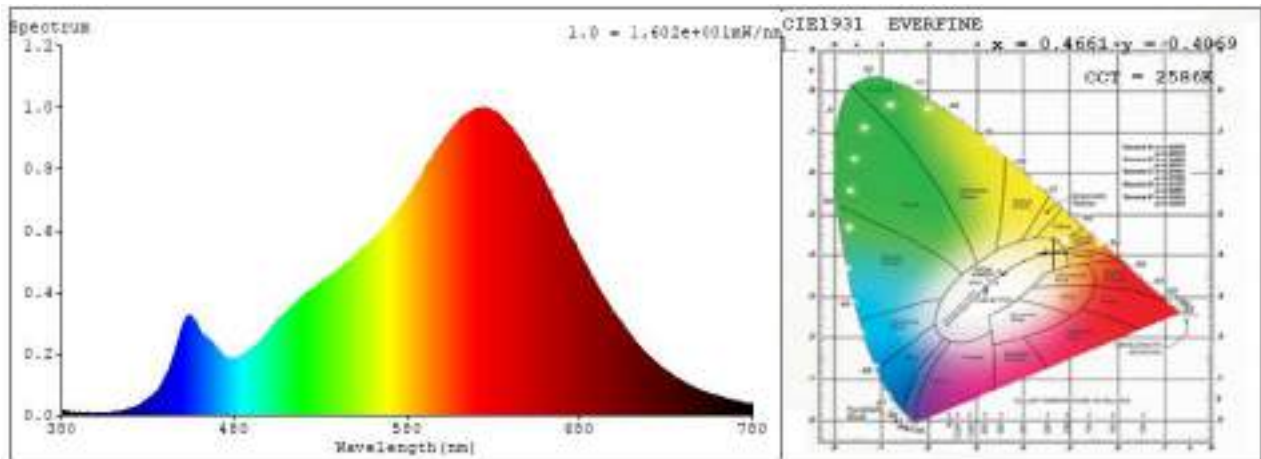


Notes: This is a recommended method for displaying ANSI/IES TM-30-18 information.

 x 0.4661 y 0.4068 u' 0.2603 v' 0.5268CIE 13.3-1995
(CRI) R_A 93 R_g 59

Colors are for visual orientation purposes only. Created with the ANSI/IES TM-30-18 Calculator Version 2.00.

7.3 Relative Spectral Power Distribution



nm	mW	nm	mW	nm	mW	nm	mW	nm	mW
380	0.0126	414	0.0122	448	0.2451	482	0.1852	516	0.3623
381	0.0159	415	0.0132	449	0.2714	483	0.1875	517	0.3683
382	0.0097	416	0.0137	450	0.2859	484	0.1906	518	0.3755
383	0.0075	417	0.0148	451	0.2952	485	0.1941	519	0.3808
384	0.0115	418	0.0182	452	0.3098	486	0.1987	520	0.3844
385	0.0063	419	0.0185	453	0.3217	487	0.2005	521	0.3866
386	0.0091	420	0.022	454	0.3269	488	0.2068	522	0.3955
387	0.0055	421	0.0242	455	0.3189	489	0.2075	523	0.3984
388	0.0064	422	0.025	456	0.3133	490	0.2135	524	0.4009
389	0.0075	423	0.0279	457	0.3017	491	0.2204	525	0.404
390	0.0044	424	0.0297	458	0.2955	492	0.2237	526	0.408
391	0.0054	425	0.0323	459	0.2835	493	0.2275	527	0.4114
392	0.0057	426	0.0345	460	0.2733	494	0.2363	528	0.4238
393	0.0038	427	0.037	461	0.2685	495	0.244	529	0.4214
394	0.0069	428	0.0437	462	0.2556	496	0.2473	530	0.4282
395	0.005	429	0.0462	463	0.2531	497	0.2529	531	0.4352
396	0.0057	430	0.0478	464	0.2494	498	0.2631	532	0.4346
397	0.0041	431	0.0558	465	0.2424	499	0.2645	533	0.4424
398	0.0048	432	0.0587	466	0.2388	500	0.2734	534	0.4455
399	0.0053	433	0.063	467	0.235	501	0.2772	535	0.4495
400	0.0044	434	0.07	468	0.231	502	0.2873	536	0.4503
401	0.0061	435	0.0775	469	0.2241	503	0.2926	537	0.4578
402	0.0033	436	0.0827	470	0.2215	504	0.3006	538	0.458
403	0.0055	437	0.0929	471	0.2126	505	0.3056	539	0.467
404	0.0057	438	0.0972	472	0.204	506	0.3106	540	0.4678
405	0.0048	439	0.1125	473	0.2017	507	0.3165	541	0.4738
406	0.007	440	0.1216	474	0.1959	508	0.3235	542	0.4815
407	0.0065	441	0.1303	475	0.1901	509	0.326	543	0.48
408	0.0071	442	0.1455	476	0.1853	510	0.3352	544	0.4907
409	0.0071	443	0.1585	477	0.1843	511	0.3368	545	0.4934
410	0.0093	444	0.1752	478	0.1818	512	0.3455	546	0.4976
411	0.0098	445	0.1919	479	0.184	513	0.3532	547	0.5054
412	0.0109	446	0.2104	480	0.1836	514	0.3522	548	0.5065
413	0.0114	447	0.227	481	0.1831	515	0.3611	549	0.513

nm	mW	nm	mW	nm	mW	nm	mW	nm	mW
550	0.5116	599	0.871	648	0.8753	697	0.3568	746	0.0918
551	0.5184	600	0.8774	649	0.87	698	0.3512	747	0.0902
552	0.5229	601	0.8899	650	0.8575	699	0.3409	748	0.0872
553	0.5333	602	0.9003	651	0.8499	700	0.3309	749	0.0848
554	0.5353	603	0.9067	652	0.8392	701	0.3249	750	0.0836
555	0.5388	604	0.9081	653	0.8257	702	0.315	751	0.0807
556	0.5445	605	0.9174	654	0.8202	703	0.3093	752	0.0786
557	0.5519	606	0.9258	655	0.8068	704	0.2982	753	0.0754
558	0.5569	607	0.934	656	0.7955	705	0.2917	754	0.0722
559	0.5641	608	0.9393	657	0.7882	706	0.2867	755	0.0713
560	0.5666	609	0.9534	658	0.7778	707	0.2761	756	0.069
561	0.5724	610	0.9549	659	0.7736	708	0.2709	757	0.0679
562	0.578	611	0.9622	660	0.756	709	0.2645	758	0.0657
563	0.5853	612	0.9655	661	0.7432	710	0.2538	759	0.0632
564	0.5921	613	0.9744	662	0.7303	711	0.2483	760	0.0621
565	0.5953	614	0.9704	663	0.7281	712	0.2437	761	0.0611
566	0.5961	615	0.9784	664	0.7074	713	0.2374	762	0.0588
567	0.6084	616	0.9844	665	0.6993	714	0.231	763	0.0571
568	0.6133	617	0.9883	666	0.6888	715	0.225	764	0.0547
569	0.6232	618	0.9797	667	0.6713	716	0.2177	765	0.053
570	0.6289	619	0.9878	668	0.6676	717	0.2106	766	0.0511
571	0.6369	620	0.9931	669	0.6492	718	0.2042	767	0.0505
572	0.6435	621	0.9903	670	0.6469	719	0.1997	768	0.0485
573	0.6581	622	0.9949	671	0.6308	720	0.1948	769	0.0468
574	0.6544	623	0.9948	672	0.6165	721	0.1872	770	0.0453
575	0.6666	624	0.9918	673	0.6066	722	0.184	771	0.0448
576	0.6689	625	0.9904	674	0.593	723	0.1802	772	0.044
577	0.6838	626	0.9991	675	0.584	724	0.1723	773	0.0417
578	0.6908	627	0.9867	676	0.5737	725	0.1675	774	0.0409
579	0.6967	628	0.9916	677	0.5628	726	0.1647	775	0.0389
580	0.7009	629	0.987	678	0.549	727	0.1592	776	0.0383
581	0.7125	630	0.9866	679	0.5361	728	0.1567	777	0.0376
582	0.7185	631	0.9792	680	0.5249	729	0.1516	778	0.0359
583	0.7335	632	0.9801	681	0.5206	730	0.146	779	0.0351
584	0.7369	633	0.9829	682	0.5068	731	0.1433	780	0.0352
585	0.753	634	0.9788	683	0.4971	732	0.1382		
586	0.7534	635	0.9713	684	0.4864	733	0.1339		
587	0.7605	636	0.9586	685	0.4773	734	0.132		
588	0.7724	637	0.9582	686	0.4633	735	0.1283		
589	0.7826	638	0.9528	687	0.4534	736	0.1229		
590	0.7994	639	0.9432	688	0.4448	737	0.1185		
591	0.8026	640	0.9417	689	0.4324	738	0.1145		
592	0.8084	641	0.9347	690	0.4279	739	0.1131		
593	0.8205	642	0.9192	691	0.4163	740	0.1114		
594	0.8301	643	0.9141	692	0.4049	741	0.1058		
595	0.8379	644	0.9103	693	0.3946	742	0.102		
596	0.8491	645	0.9019	694	0.3854	743	0.1007		
597	0.8579	646	0.8959	695	0.3763	744	0.0979		
598	0.8629	647	0.89	696	0.3676	745	0.0952		

8. Goniophotometer Test results for LVFK40-0500W-L27-35-O-24-G(Vivoxy FLEX rail+shield)

8.1 Test Data

Test Ambient Temperature	25.2°C	Test orientation	Downward
Operate time(Min.)	90	stabilization time(Min.)	30

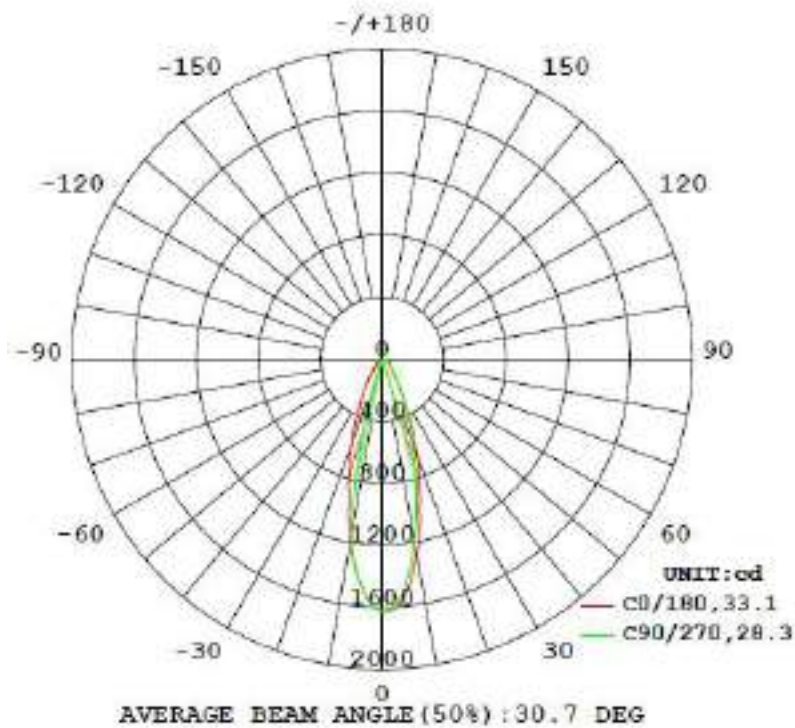
Electrical Measurement

Input Voltage (V)	Frequency (Hz)	Input Current(A)	Power Factor	Power(W)
24	--	0.528	1.0000	12.67

Optical Measurement

Luminous Flux (lm)	Efficacy(lm/W)	Imax (cd)	S/MH(C0/180)	S/MH(C90/270)
698.841	55.15	1629	0.52	0.40

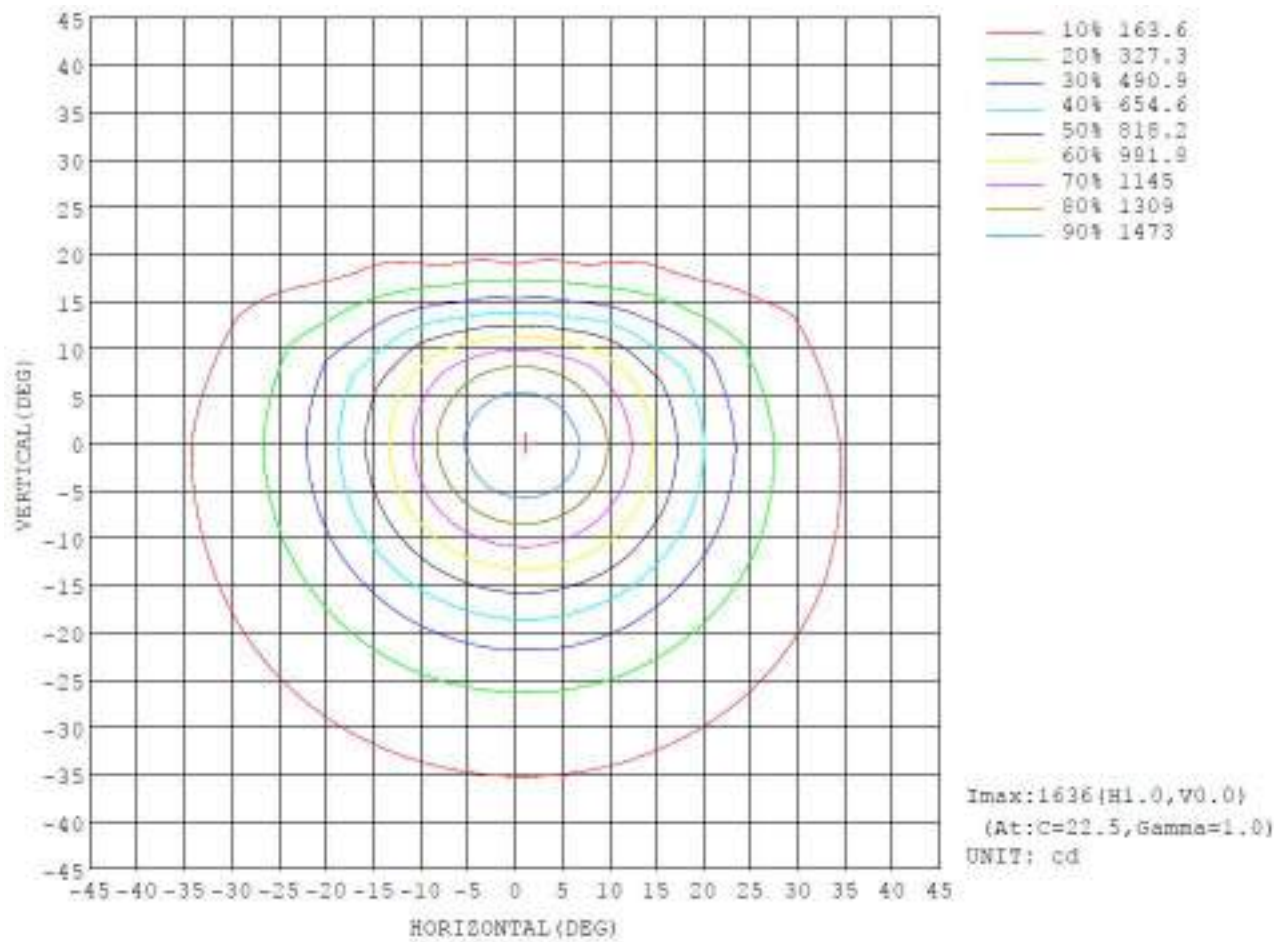
8.2 Luminous Intensity Distribution



8.3 Zonal Flux Diagram

Y	C0	C08	C09	C138	C139	C225	C270	C325	Y	# zone	# total	#lum, lamp
10	1289	1283	1204	1195	1197	1190	1127	1147	0- 10	134.3	134.3	19.2, 19.2
20	654.8	626.4	579.0	569.4	581.4	395.7	115.5	407.5	10- 20	325.4	459.9	51.3, 51.3
30	259.8	355.1	239.8	235.8	249.2	44.76	5.164	44.92	20- 30	136.2	496.1	71.71
40	109.4	121.7	120.3	114.2	97.74	2.879	0.8535	2.778	30- 40	89.91	586.0	81.81
50	57.55	72.04	74.24	48.61	54.17	0.6883	8	0.8265	40- 50	41.01	607.0	84.8, 84.8
60	34.18	50.91	54.55	48.62	34.21	0	8	0	50- 60	38.40	635.4	80.8, 80.8
70	10.75	34.05	39.17	33.22	19.88	0	8	0	60- 70	21.33	657.1	94.99
80	0.017	19.70	29.27	19.28	7.475	0	8	0	70- 80	14.18	671.3	98.1, 98.1
90	0.3214	14.58	23.98	14.86	0.1717	0	8	0	80- 90	8.635	679.9	97.1, 97.1
100	0	13.24	21.19	13.51	0	0	8	0	90-100	7.114	687.0	98.3, 98.3
110	0.0454	10.30	19.23	10.59	0	0	8	0	100-110	5.782	692.8	99.1, 99.1
120	0	8.544	15.82	2.570	0	0	8	0	110-120	4.818	696.6	99.7, 99.7
130	0.5469	8.2575	8.010	0.2840	0	0	8	0	120-130	1.917	698.0	99.9, 99.9
140	0.1811	8.0703	0.0799	0.1353	8.1978	0.1205	0.2182	0.2019	130-140	3.1811	698.2	99.8, 99.8
150	0.1294	8.3829	0.1826	0.1959	8.5807	0.4471	0.6518	0.4272	140-150	3.1712	698.4	99.8, 99.8
160	0.8502	8.3349	0.3090	0.3655	8.8846	0.9218	0.9767	0.9631	150-160	3.2447	698.6	100, 100
170	0.3983	8.3646	0.3366	0.2063	8.8111	0.7827	0.8244	0.8299	160-170	3.1750	698.8	100, 100
180	0.5808	8.5125	0.4879	0.4602	8.5784	0.5440	0.4873	0.4778	170-180	3.0523	698.8	100, 100
180	LUMINOUS INTENSITY (cd)									UNIT:lm		

8.4 Isocandela Diagram



8.5 Luminous Distribution Intensity Data

Table--1

UNIT: cd

C (DEG) Y (DEG)	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5			
0	1625	1625	1625	1625	1625	1625	1625	1625	1625	1625	1625	1625	1625	1625	1625	1625			
5	1546	1549	1540	1525	1508	1499	1492	1488	1486	1491	1482	1484	1492	1506	1522	1537			
10	1289	1289	1243	1232	1206	1196	1195	1197	1197	1192	1190	1149	1127	1111	1111	1247			
15	961	960	929	895	868	858	859	865	867	861	786	807	820	894	920	943			
20	655	652	626	600	579	566	569	579	581	575	396	174	118	175	407	637			
25	421	421	402	383	367	363	365	373	377	356	145	48.2	34.6	46.3	168	362			
30	291	267	258	246	240	236	236	238	240	209	66.8	14.1	9.16	15.1	44.9	202			
35	155	172	170	168	166	162	159	157	151	115	18.0	2.17	1.54	2.16	18.6	126			
40	108	117	122	121	120	117	114	109	97.7	64.2	2.88	1.32	0.89	1.34	2.78	65.4			
45	77.6	82.7	91.3	91.1	91.7	89.5	86.1	79.7	71.9	31.1	1.28	0.09	0.00	0.10	1.43	35.8			
50	57.6	63.8	72.0	74.0	74.2	72.7	68.6	60.7	54.2	17.4	0.81	0.00	0.00	0.00	0.83	19.4			
55	45.3	52.0	59.8	62.2	63.6	61.5	57.3	49.1	42.1	5.48	0.00	0.00	0.00	0.00	0.03	5.98			
60	36.2	43.4	50.3	53.3	54.5	52.4	48.6	41.1	34.2	2.32	0.00	0.00	0.00	0.00	0.00	2.71			
65	28.9	36.5	41.9	44.5	46.1	43.9	40.7	34.5	27.0	1.81	0.00	0.00	0.00	0.00	0.00	2.24			
70	20.7	30.0	34.0	36.6	38.2	36.1	33.2	27.6	19.9	0.94	0.00	0.00	0.00	0.00	0.00	1.26			
75	13.9	22.7	26.5	29.2	31.0	28.9	25.7	20.9	13.3	0.51	0.00	0.00	0.00	0.00	0.00	0.63			
80	8.02	15.9	19.8	23.2	25.3	23.1	19.3	14.6	7.48	0.19	0.00	0.00	0.00	0.00	0.00	0.31			
85	3.23	10.1	15.7	21.2	24.0	21.2	15.6	9.64	2.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
90	0.32	7.69	14.6	20.0	23.1	20.4	14.9	7.88	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
95	0.02	6.96	14.0	19.7	23.1	20.0	14.3	7.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
100	0.00	6.10	13.2	18.1	21.2	18.3	13.5	6.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
105	0.00	3.80	12.3	17.4	20.5	17.8	12.5	4.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
110	0.05	1.18	10.3	16.0	19.2	16.3	10.6	1.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
115	0.03	0.62	7.88	13.9	17.4	14.2	7.79	0.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
120	0.00	0.30	2.86	11.5	15.0	11.8	2.57	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
125	0.00	0.00	0.87	5.84	10.8	8.99	1.05	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
130	0.05	0.04	0.26	1.84	3.81	1.84	0.28	0.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
135	0.12	0.00	0.11	0.17	0.65	0.16	0.15	0.21	0.04	0.06	0.06	0.06	0.06	0.06	0.06	0.06			
140	0.18	0.08	0.07	0.04	0.88	0.07	0.14	0.10	0.19	0.22	0.23	0.22	0.22	0.21	0.20	0.20			
145	0.20	0.14	0.14	0.12	0.89	0.12	0.17	0.11	0.29	0.43	0.44	0.44	0.44	0.43	0.41	0.40			
150	0.22	0.21	0.20	0.18	0.16	0.18	0.28	0.16	0.58	0.62	0.65	0.65	0.65	0.64	0.63	0.60			
155	0.31	0.30	0.29	0.27	0.26	0.26	0.25	0.23	0.77	0.79	0.83	0.86	0.86	0.85	0.83	0.80			
160	0.35	0.34	0.33	0.32	0.31	0.29	0.27	0.26	0.88	0.89	0.92	0.95	0.98	0.99	0.97	0.93			
165	0.37	0.36	0.35	0.34	0.32	0.30	0.27	0.26	0.87	0.87	0.88	0.91	0.93	0.95	0.94	0.91			
170	0.40	0.38	0.36	0.35	0.34	0.31	0.29	0.28	0.81	0.81	0.79	0.80	0.81	0.83	0.83	0.82			
175	0.46	0.43	0.40	0.38	0.35	0.34	0.33	0.36	0.70	0.71	0.68	0.66	0.66	0.67	0.67	0.67			
180	0.58	0.54	0.51	0.49	0.43	0.48	0.49	0.49	0.58	0.58	0.54	0.51	0.49	0.49	0.48	0.43			

9. Integrating Sphere Test Results for LVFK40-0500W-L27-35-O-24-G(Vivoxy FLEX rail+shield+louver)

9.1 Test Data

Test Ambient Temperature (Integrating sphere internal temperature)	25.1℃	Test orientation	Downward
Operate time(Min.)	30	stabilization time(Min.)	0

Optical and Electrical Measurement Result

Number	Time	Current (A)	Voltage (V)	Power (W)	Flux(lm)	x	y	u'	v'	CCT (K)	Ra
0	00h00m00s	0.5347	24.298	12.992	573.75	0.4656	0.4085	0.2672	0.5274	2605	93.3
1	00h00m10s	0.5351	24.298	13.002	573.7	0.4656	0.4085	0.2672	0.5274	2606	93.3
2	00h00m20s	0.5353	24.298	13.007	573.4	0.4655	0.4084	0.2672	0.5274	2606	93.3
3	00h00m30s	0.5355	24.298	13.012	573.02	0.4655	0.4084	0.2672	0.5274	2606	93.2
4	00h00m40s	0.5357	24.298	13.016	572.67	0.4655	0.4084	0.2672	0.5274	2606	93.3
5	00h00m50s	0.5359	24.298	13.021	572.42	0.4655	0.4083	0.2672	0.5273	2606	93.2
6	00h01m00s	0.5361	24.298	13.026	572.09	0.4654	0.4081	0.2672	0.5272	2605	93.2
7	00h01m10s	0.5363	24.298	13.031	571.91	0.4655	0.4083	0.2672	0.5273	2605	93.2
8	00h01m20s	0.5365	24.298	13.036	571.55	0.4655	0.4083	0.2672	0.5273	2606	93.2
9	00h01m30s	0.5366	24.298	13.038	571.27	0.4654	0.4082	0.2672	0.5273	2606	93.2
10	00h01m40s	0.5367	24.298	13.041	571.58	0.4655	0.4083	0.2672	0.5273	2606	93.2
11	00h01m50s	0.5369	24.298	13.046	570.95	0.4656	0.4082	0.2673	0.5273	2604	93.2
12	00h02m00s	0.537	24.298	13.048	570.71	0.4654	0.408	0.2673	0.5272	2604	93.2
13	00h02m10s	0.5372	24.298	13.053	570.59	0.4655	0.4081	0.2673	0.5273	2604	93.2
14	00h02m20s	0.5373	24.298	13.055	570.34	0.4653	0.408	0.2672	0.5272	2605	93.2
15	00h02m30s	0.5374	24.298	13.058	570.06	0.4653	0.408	0.2672	0.5272	2606	93.2
16	00h02m40s	0.5375	24.298	13.06	570.01	0.4654	0.408	0.2673	0.5272	2605	93.2
17	00h02m50s	0.5376	24.298	13.063	570.17	0.4653	0.4079	0.2672	0.5272	2606	93.2
18	00h03m00s	0.5378	24.298	13.067	569.75	0.4653	0.4079	0.2673	0.5271	2604	93.2
19	00h03m10s	0.5379	24.298	13.07	569.42	0.4654	0.4078	0.2673	0.5271	2604	93.1
20	00h03m20s	0.538	24.298	13.072	569.49	0.4654	0.408	0.2673	0.5272	2604	93.1
21	00h03m30s	0.5381	24.298	13.075	568.96	0.4653	0.4078	0.2673	0.5271	2605	93.2
22	00h03m40s	0.5382	24.298	13.077	568.93	0.4654	0.408	0.2673	0.5272	2604	93.1
23	00h03m50s	0.5383	24.298	13.08	568.72	0.4654	0.4079	0.2673	0.5272	2603	93.1

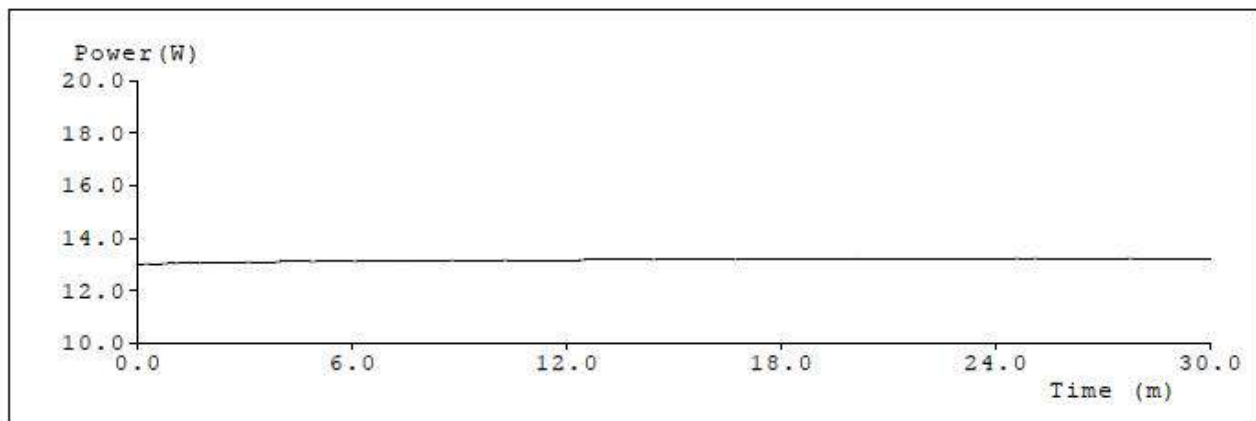
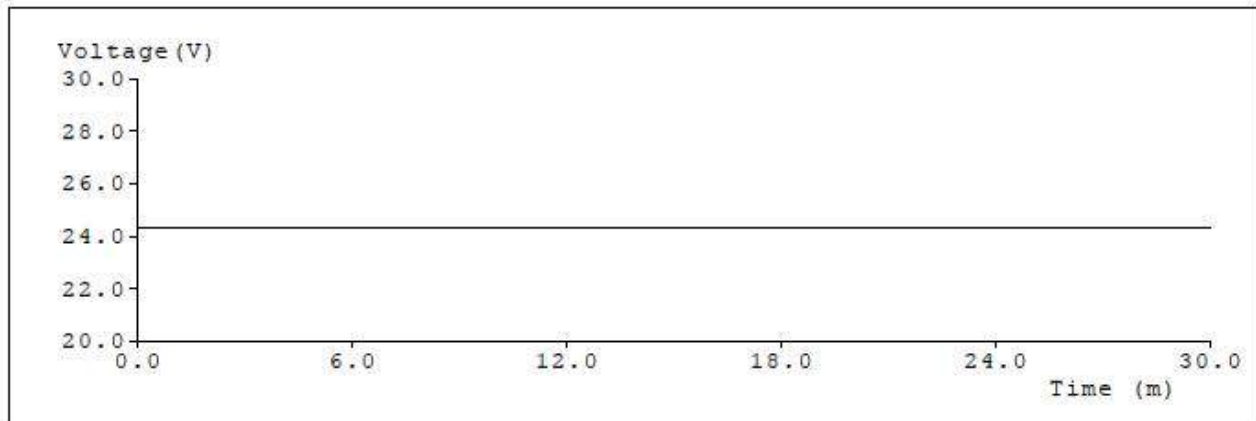
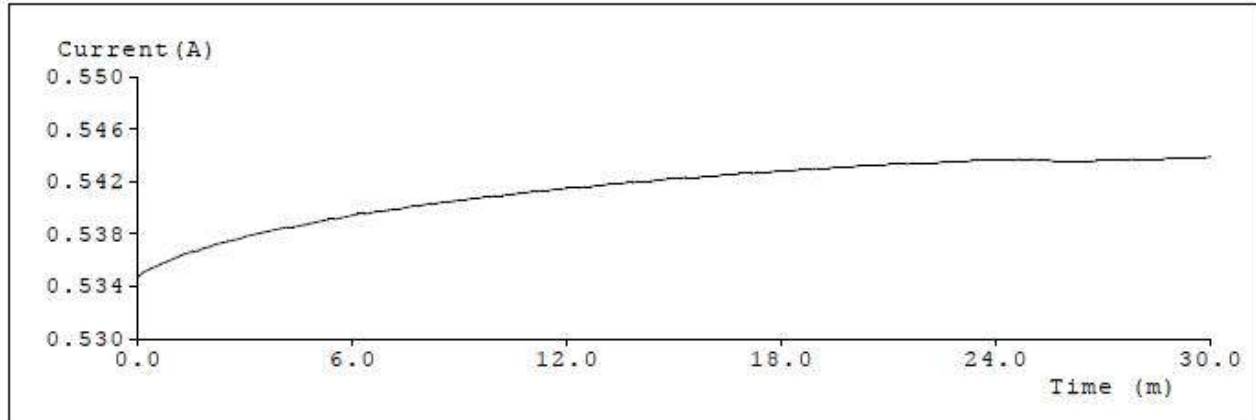
24	00h04m00s	0.5384	24.298	13.082	568.47	0.4654	0.408	0.2673	0.5272	2604	93.2
25	00h04m10s	0.5385	24.298	13.084	568.66	0.4654	0.4079	0.2673	0.5272	2604	93.1
26	00h04m20s	0.5385	24.298	13.084	568.23	0.4654	0.4079	0.2674	0.5271	2603	93.1
27	00h04m30s	0.5386	24.298	13.087	567.93	0.4654	0.4077	0.2674	0.5271	2602	93.1
28	00h04m40s	0.5387	24.298	13.089	568.12	0.4655	0.4078	0.2674	0.5271	2602	93.1
29	00h04m50s	0.5388	24.298	13.092	567.69	0.4655	0.4079	0.2674	0.5272	2603	93.1
30	00h05m00s	0.5389	24.298	13.094	567.34	0.4655	0.4077	0.2674	0.5271	2602	93.1
31	00h05m10s	0.539	24.298	13.097	567.58	0.4653	0.4078	0.2673	0.5271	2604	93.1
32	00h05m20s	0.5391	24.298	13.099	567.12	0.4654	0.4077	0.2674	0.5271	2602	93.1
33	00h05m30s	0.5391	24.298	13.099	567.14	0.4654	0.4078	0.2674	0.5271	2602	93.1
34	00h05m40s	0.5392	24.298	13.101	567.08	0.4653	0.4077	0.2673	0.5271	2603	93.1
35	00h05m50s	0.5393	24.298	13.104	566.82	0.4654	0.4077	0.2674	0.5271	2602	93.1
36	00h06m00s	0.5394	24.298	13.106	566.49	0.4655	0.4077	0.2675	0.5271	2601	93.1
37	00h06m10s	0.5395	24.298	13.109	566.46	0.4655	0.4077	0.2675	0.5271	2600	93.1
38	00h06m20s	0.5395	24.298	13.109	566.46	0.4655	0.4077	0.2675	0.5271	2601	93.1
39	00h06m30s	0.5396	24.298	13.111	566.31	0.4655	0.4077	0.2675	0.5271	2601	93.1
40	00h06m40s	0.5397	24.298	13.114	566.03	0.4654	0.4076	0.2675	0.527	2601	93.1
41	00h06m50s	0.5397	24.298	13.114	565.85	0.4653	0.4076	0.2674	0.527	2602	93.1
42	00h07m00s	0.5398	24.298	13.116	565.87	0.4653	0.4076	0.2674	0.527	2602	93.1
43	00h07m10s	0.5399	24.298	13.118	565.47	0.4654	0.4076	0.2675	0.527	2601	93
44	00h07m20s	0.5399	24.298	13.118	565.44	0.4654	0.4076	0.2675	0.527	2601	93
45	00h07m30s	0.54	24.298	13.121	565.44	0.4655	0.4076	0.2675	0.527	2600	93
46	00h07m40s	0.5401	24.298	13.123	565.62	0.4654	0.4076	0.2675	0.5271	2601	93
47	00h07m50s	0.5401	24.298	13.123	565.11	0.4655	0.4076	0.2675	0.527	2600	93.1
48	00h08m00s	0.5402	24.298	13.126	565.12	0.4653	0.4075	0.2675	0.527	2601	93
49	00h08m10s	0.5403	24.298	13.128	564.95	0.4653	0.4075	0.2674	0.527	2602	93.1
50	00h08m20s	0.5403	24.298	13.128	564.83	0.4653	0.4075	0.2675	0.527	2601	93
51	00h08m30s	0.5404	24.298	13.131	564.76	0.4654	0.4075	0.2675	0.527	2602	93.1
52	00h08m40s	0.5404	24.298	13.131	564.43	0.4655	0.4075	0.2676	0.527	2599	93
53	00h08m50s	0.5405	24.298	13.133	564.43	0.4654	0.4075	0.2675	0.527	2601	93.1
54	00h09m00s	0.5406	24.298	13.135	564.29	0.4653	0.4075	0.2675	0.527	2601	93.1
55	00h09m10s	0.5406	24.298	13.135	564.03	0.4654	0.4074	0.2675	0.527	2600	93
56	00h09m20s	0.5407	24.298	13.138	564	0.4654	0.4074	0.2676	0.5269	2600	93

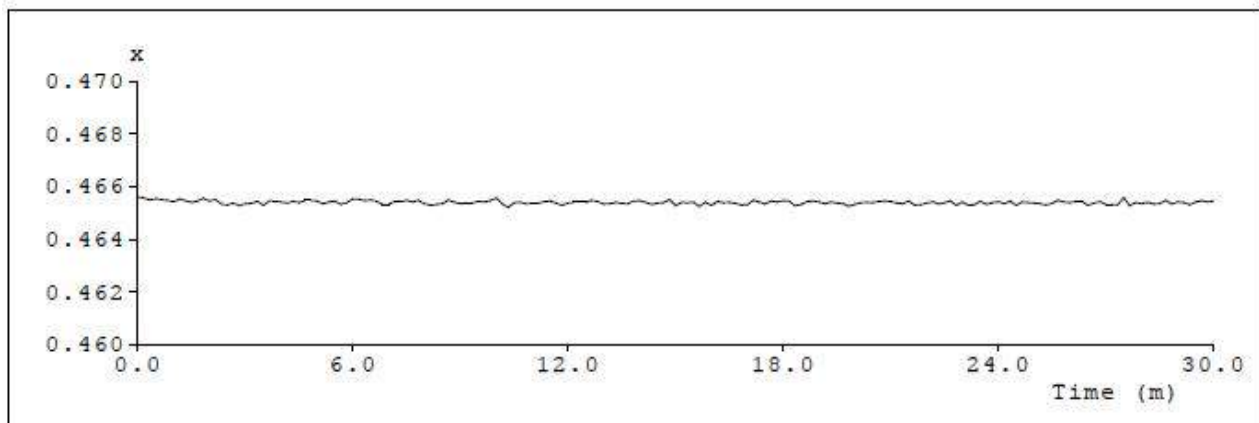
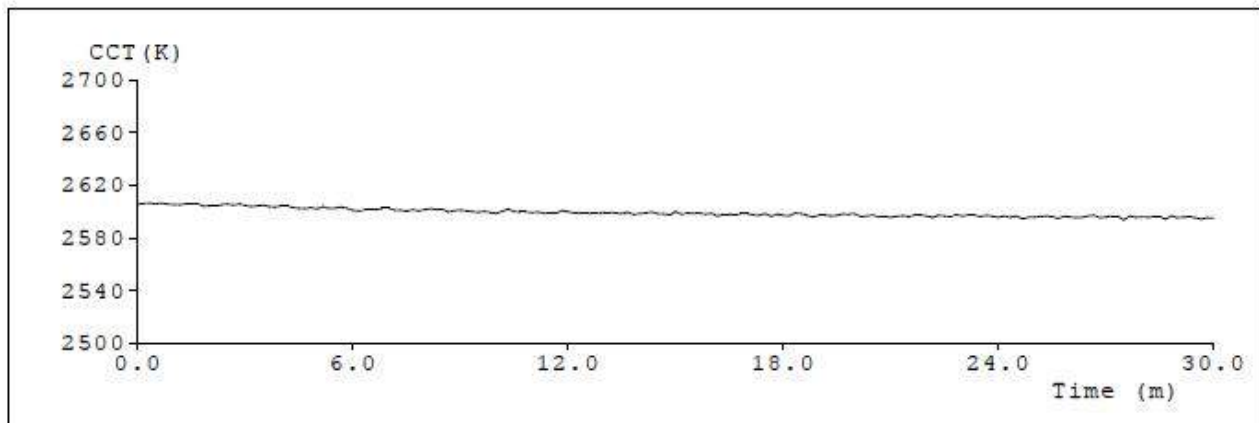
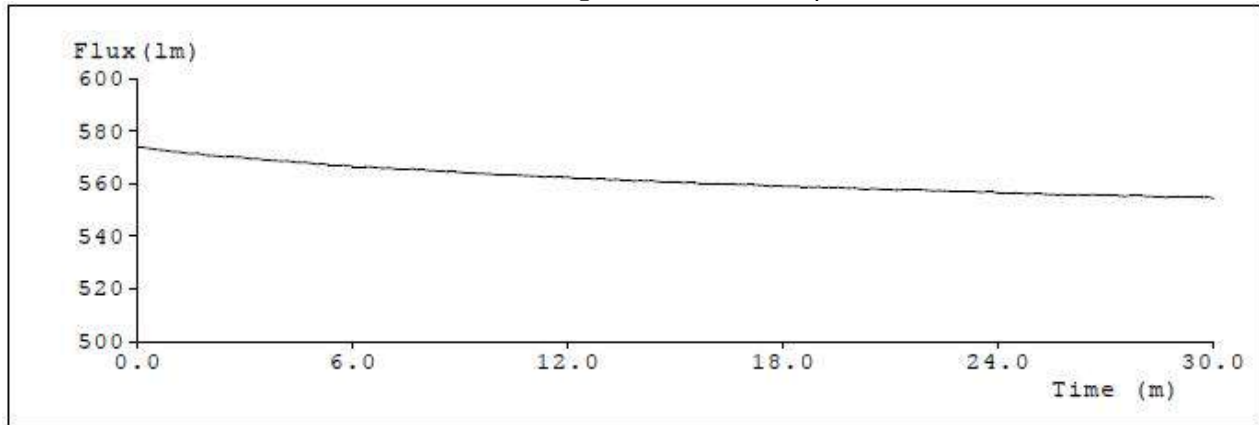
57	00h09m30s	0.5407	24.298	13.138	563.82	0.4654	0.4074	0.2676	0.527	2599	93
58	00h09m40s	0.5408	24.298	13.14	563.79	0.4654	0.4074	0.2675	0.527	2600	93
59	00h09m50s	0.5408	24.298	13.14	563.6	0.4655	0.4074	0.2676	0.527	2599	93
60	00h10m00s	0.5409	24.298	13.143	563.35	0.4656	0.4075	0.2676	0.527	2598	93
61	00h10m10s	0.5409	24.298	13.143	563.25	0.4653	0.4073	0.2675	0.5269	2600	93
62	00h10m20s	0.541	24.298	13.145	563.41	0.4652	0.4073	0.2675	0.5269	2602	93
63	00h10m30s	0.541	24.298	13.145	563.3	0.4654	0.4074	0.2676	0.5269	2600	93
64	00h10m40s	0.5411	24.298	13.148	563.1	0.4654	0.4073	0.2676	0.5269	2599	93
65	00h10m50s	0.5411	24.298	13.148	562.92	0.4653	0.4073	0.2676	0.5269	2600	93
66	00h11m00s	0.5412	24.298	13.15	562.85	0.4654	0.4072	0.2676	0.5269	2599	93
67	00h11m10s	0.5412	24.298	13.15	562.71	0.4654	0.4073	0.2676	0.5269	2600	93
68	00h11m20s	0.5413	24.298	13.153	562.45	0.4654	0.4073	0.2676	0.5269	2599	93
69	00h11m30s	0.5413	24.298	13.153	562.73	0.4654	0.4073	0.2676	0.5269	2599	92.9
70	00h11m40s	0.5414	24.298	13.155	562.33	0.4654	0.4072	0.2676	0.5269	2599	93
71	00h11m50s	0.5414	24.298	13.155	562.35	0.4653	0.4073	0.2675	0.5269	2600	93
72	00h12m00s	0.5415	24.298	13.157	562.46	0.4654	0.4074	0.2676	0.5269	2600	93
73	00h12m10s	0.5415	24.298	13.157	561.93	0.4654	0.4072	0.2676	0.5269	2599	93
74	00h12m20s	0.5415	24.298	13.157	561.79	0.4654	0.4073	0.2676	0.5269	2599	93
75	00h12m30s	0.5416	24.298	13.16	561.99	0.4654	0.4073	0.2676	0.5269	2599	93
76	00h12m40s	0.5416	24.298	13.16	561.77	0.4655	0.4073	0.2676	0.5269	2598	93
77	00h12m50s	0.5417	24.298	13.162	561.71	0.4654	0.4072	0.2676	0.5269	2598	93
78	00h13m00s	0.5417	24.298	13.162	561.69	0.4653	0.4072	0.2676	0.5269	2599	93
79	00h13m10s	0.5418	24.298	13.165	561.48	0.4654	0.4073	0.2676	0.5269	2599	93
80	00h13m20s	0.5418	24.298	13.165	561.57	0.4654	0.4073	0.2676	0.5269	2599	92.9
81	00h13m30s	0.5418	24.298	13.165	561.4	0.4654	0.4071	0.2676	0.5269	2598	92.9
82	00h13m40s	0.5419	24.298	13.167	561.42	0.4653	0.4072	0.2676	0.5269	2599	93
83	00h13m50s	0.5419	24.298	13.167	560.93	0.4654	0.4072	0.2677	0.5269	2598	93
84	00h14m00s	0.542	24.298	13.17	561.12	0.4655	0.4073	0.2676	0.5269	2598	92.9
85	00h14m10s	0.542	24.298	13.17	561.05	0.4654	0.4072	0.2676	0.5269	2599	93
86	00h14m20s	0.542	24.298	13.17	561.12	0.4653	0.4072	0.2676	0.5269	2600	93
87	00h14m30s	0.5421	24.298	13.172	560.66	0.4654	0.4072	0.2676	0.5269	2598	93
88	00h14m40s	0.5421	24.298	13.172	560.56	0.4654	0.4071	0.2677	0.5269	2598	93
89	00h14m50s	0.5422	24.298	13.174	560.63	0.4655	0.4073	0.2677	0.5269	2597	93

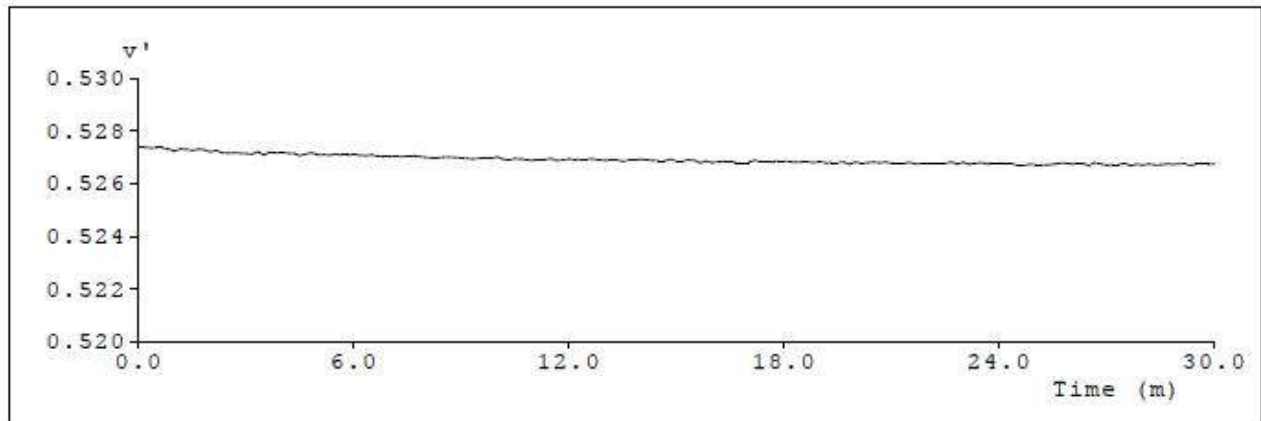
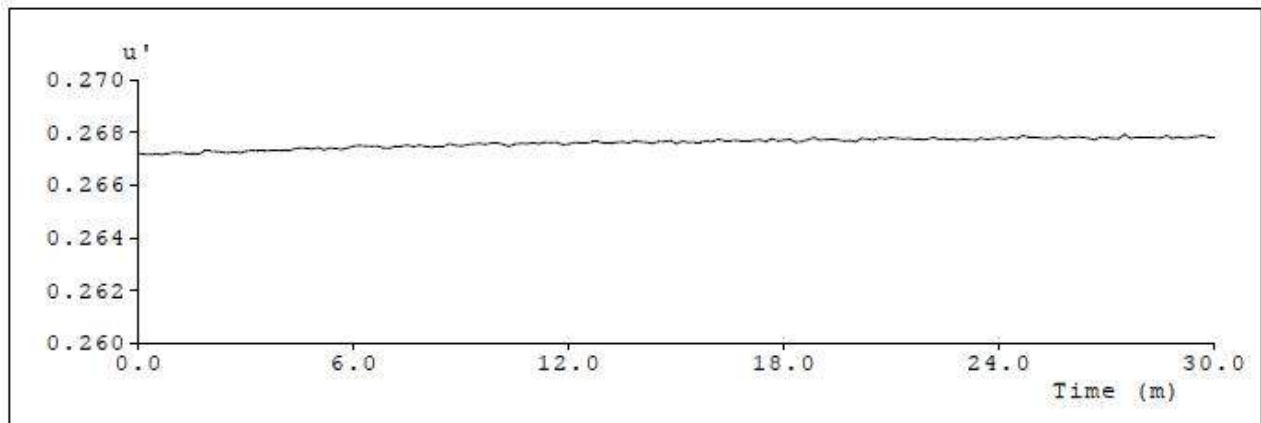
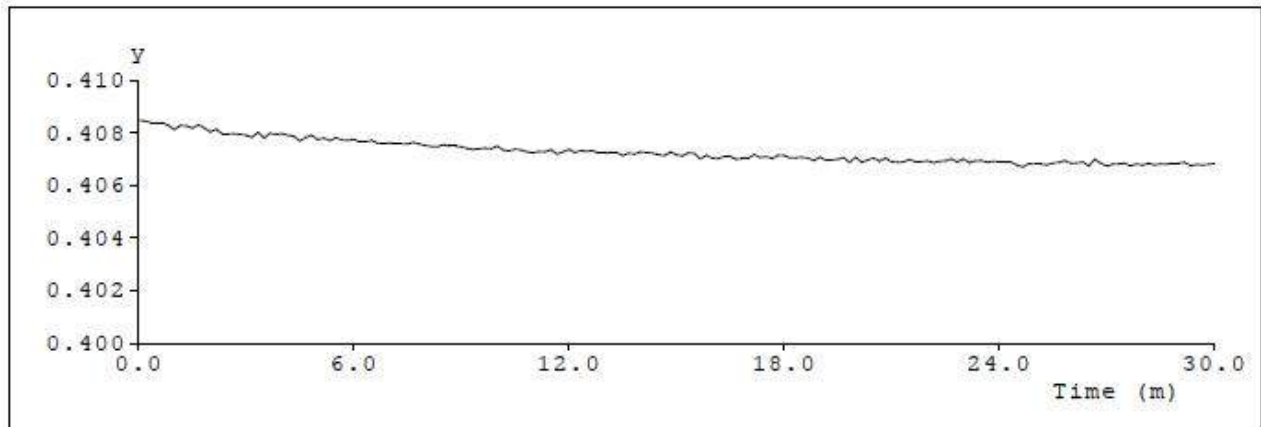
90	00h15m00s	0.5422	24.298	13.174	560.7	0.4653	0.4072	0.2676	0.5268	2600	93
91	00h15m10s	0.5422	24.298	13.174	560.41	0.4654	0.4071	0.2677	0.5269	2598	93
92	00h15m20s	0.5423	24.298	13.177	560.31	0.4654	0.4072	0.2676	0.5269	2599	92.9
93	00h15m30s	0.5423	24.298	13.177	560.3	0.4654	0.4072	0.2676	0.5269	2598	93
94	00h15m40s	0.5423	24.298	13.177	560.05	0.4652	0.407	0.2676	0.5268	2599	93
95	00h15m50s	0.5424	24.298	13.179	560.06	0.4654	0.4071	0.2677	0.5269	2598	92.9
96	00h16m00s	0.5424	24.298	13.179	560.03	0.4653	0.407	0.2676	0.5268	2599	92.9
97	00h16m10s	0.5424	24.298	13.179	559.97	0.4654	0.407	0.2678	0.5268	2596	92.9
98	00h16m20s	0.5425	24.298	13.182	559.81	0.4654	0.4071	0.2677	0.5268	2598	92.9
99	00h16m30s	0.5425	24.298	13.182	559.78	0.4654	0.4071	0.2677	0.5268	2598	92.9
100	00h16m40s	0.5425	24.298	13.182	559.72	0.4654	0.407	0.2677	0.5268	2597	92.9
101	00h16m50s	0.5426	24.298	13.184	559.6	0.4653	0.407	0.2677	0.5268	2598	92.9
102	00h17m00s	0.5426	24.298	13.184	559.46	0.4653	0.407	0.2677	0.5268	2598	92.9
103	00h17m10s	0.5426	24.298	13.184	559.53	0.4655	0.4072	0.2677	0.5269	2597	92.9
104	00h17m20s	0.5427	24.298	13.187	559.43	0.4654	0.4071	0.2677	0.5268	2597	92.9
105	00h17m30s	0.5427	24.298	13.187	559.08	0.4653	0.4071	0.2676	0.5268	2598	93
106	00h17m40s	0.5427	24.298	13.187	559.05	0.4654	0.407	0.2678	0.5268	2596	92.9
107	00h17m50s	0.5428	24.298	13.189	559.13	0.4654	0.4071	0.2677	0.5269	2598	92.9
108	00h18m00s	0.5428	24.298	13.189	558.93	0.4655	0.4071	0.2677	0.5269	2597	92.9
109	00h18m10s	0.5428	24.298	13.189	558.91	0.4655	0.407	0.2677	0.5268	2596	92.9
110	00h18m20s	0.5428	24.298	13.189	558.98	0.4653	0.4071	0.2676	0.5268	2599	92.9
111	00h18m30s	0.5429	24.298	13.191	558.67	0.4653	0.4071	0.2677	0.5268	2598	92.9
112	00h18m40s	0.5429	24.298	13.191	558.69	0.4654	0.407	0.2677	0.5268	2597	92.9
113	00h18m50s	0.5429	24.298	13.191	558.59	0.4655	0.4069	0.2678	0.5268	2596	92.9
114	00h19m00s	0.543	24.298	13.194	558.76	0.4654	0.4071	0.2677	0.5268	2597	92.9
115	00h19m10s	0.543	24.298	13.194	558.39	0.4653	0.4069	0.2677	0.5268	2597	92.9
116	00h19m20s	0.543	24.298	13.194	558.54	0.4654	0.407	0.2678	0.5268	2596	92.9
117	00h19m30s	0.5431	24.298	13.196	558.62	0.4654	0.407	0.2677	0.5268	2597	92.9
118	00h19m40s	0.5431	24.298	13.196	558.33	0.4653	0.4071	0.2677	0.5268	2598	92.9
119	00h19m50s	0.5431	24.298	13.196	558.21	0.4653	0.4069	0.2677	0.5267	2598	92.9
120	00h20m00s	0.5431	24.298	13.196	558.38	0.4653	0.4071	0.2677	0.5268	2598	92.9
121	00h20m10s	0.5432	24.298	13.199	557.85	0.4654	0.4069	0.2678	0.5268	2596	92.9
122	00h20m20s	0.5432	24.298	13.199	557.65	0.4654	0.407	0.2677	0.5268	2597	92.9

123	00h20m30s	0.5432	24.298	13.199	558.13	0.4654	0.407	0.2677	0.5268	2597	92.9
124	00h20m40s	0.5432	24.298	13.199	557.86	0.4654	0.4069	0.2678	0.5268	2596	92.9
125	00h20m50s	0.5432	24.298	13.199	557.72	0.4654	0.407	0.2678	0.5268	2596	92.9
126	00h21m00s	0.5433	24.298	13.201	557.71	0.4654	0.4069	0.2678	0.5268	2595	92.9
127	00h21m10s	0.5433	24.298	13.201	557.49	0.4654	0.4069	0.2678	0.5268	2596	92.9
128	00h21m20s	0.5433	24.298	13.201	557.58	0.4653	0.4069	0.2677	0.5268	2597	92.8
129	00h21m30s	0.5433	24.298	13.201	557.56	0.4654	0.407	0.2678	0.5268	2596	92.9
130	00h21m40s	0.5434	24.298	13.204	557.62	0.4653	0.4069	0.2677	0.5268	2597	92.9
131	00h21m50s	0.5434	24.298	13.204	557.53	0.4653	0.4069	0.2677	0.5268	2597	92.9
132	00h22m00s	0.5434	24.298	13.204	557.4	0.4654	0.4069	0.2677	0.5268	2597	92.9
133	00h22m10s	0.5434	24.298	13.204	557.14	0.4654	0.4069	0.2678	0.5268	2595	92.9
134	00h22m20s	0.5434	24.298	13.204	557.29	0.4653	0.4069	0.2677	0.5268	2597	92.9
135	00h22m30s	0.5435	24.298	13.206	557.15	0.4654	0.4069	0.2678	0.5268	2596	92.9
136	00h22m40s	0.5435	24.298	13.206	557.05	0.4655	0.407	0.2678	0.5268	2596	92.9
137	00h22m50s	0.5435	24.298	13.206	556.94	0.4653	0.4069	0.2677	0.5267	2597	92.9
138	00h23m00s	0.5435	24.298	13.206	556.95	0.4654	0.407	0.2677	0.5268	2597	92.9
139	00h23m10s	0.5435	24.298	13.206	557.01	0.4653	0.4069	0.2677	0.5267	2597	92.9
140	00h23m20s	0.5436	24.298	13.208	556.94	0.4653	0.4069	0.2677	0.5268	2597	92.9
141	00h23m30s	0.5436	24.298	13.208	556.69	0.4654	0.4069	0.2678	0.5268	2596	92.9
142	00h23m40s	0.5436	24.298	13.208	556.84	0.4653	0.4069	0.2677	0.5267	2597	92.9
143	00h23m50s	0.5436	24.298	13.208	556.83	0.4654	0.4069	0.2678	0.5268	2596	92.9
144	00h24m00s	0.5436	24.298	13.208	556.38	0.4654	0.4069	0.2678	0.5268	2596	92.9
145	00h24m10s	0.5436	24.298	13.208	556.44	0.4654	0.4069	0.2678	0.5268	2597	92.8
146	00h24m20s	0.5436	24.298	13.208	556.29	0.4654	0.4069	0.2678	0.5268	2595	92.9
147	00h24m30s	0.5436	24.298	13.208	556.36	0.4653	0.4068	0.2678	0.5267	2596	92.9
148	00h24m40s	0.5437	24.298	13.211	556.23	0.4654	0.4067	0.2679	0.5267	2594	92.9
149	00h24m50s	0.5437	24.298	13.211	556.06	0.4654	0.4068	0.2678	0.5267	2595	92.9
150	00h25m00s	0.5437	24.298	13.211	556.15	0.4654	0.4068	0.2678	0.5267	2596	92.9
151	00h25m10s	0.5436	24.298	13.208	556.1	0.4653	0.4068	0.2678	0.5267	2596	92.9
152	00h25m20s	0.5436	24.298	13.208	555.88	0.4653	0.4068	0.2678	0.5267	2596	92.9
153	00h25m30s	0.5436	24.298	13.208	555.84	0.4654	0.4068	0.2678	0.5267	2596	92.9
154	00h25m40s	0.5435	24.298	13.206	555.59	0.4655	0.4069	0.2678	0.5268	2595	92.9
155	00h25m50s	0.5435	24.298	13.206	555.74	0.4654	0.4069	0.2678	0.5268	2596	92.9

156	00h26m00s	0.5435	24.298	13.206	555.72	0.4654	0.4068	0.2678	0.5267	2596	92.8
157	00h26m10s	0.5435	24.298	13.206	555.74	0.4654	0.4068	0.2678	0.5268	2595	92.9
158	00h26m20s	0.5435	24.298	13.206	555.62	0.4654	0.4069	0.2678	0.5268	2595	92.9
159	00h26m30s	0.5435	24.298	13.206	555.69	0.4653	0.4067	0.2678	0.5267	2596	92.8
160	00h26m40s	0.5435	24.298	13.206	555.83	0.4654	0.407	0.2677	0.5268	2597	92.8
161	00h26m50s	0.5436	24.298	13.208	555.43	0.4654	0.4068	0.2678	0.5267	2595	92.8
162	00h27m00s	0.5436	24.298	13.208	555.35	0.4653	0.4067	0.2678	0.5267	2596	92.8
163	00h27m10s	0.5436	24.298	13.208	555.42	0.4653	0.4068	0.2678	0.5267	2596	92.8
164	00h27m20s	0.5436	24.298	13.208	555.33	0.4653	0.4068	0.2678	0.5267	2597	92.9
165	00h27m30s	0.5436	24.298	13.208	555.15	0.4656	0.4068	0.2679	0.5268	2593	92.9
166	00h27m40s	0.5436	24.298	13.208	555.24	0.4653	0.4067	0.2678	0.5267	2596	92.9
167	00h27m50s	0.5437	24.298	13.211	555.33	0.4654	0.4068	0.2678	0.5267	2595	92.9
168	00h28m00s	0.5437	24.298	13.211	555.23	0.4653	0.4068	0.2678	0.5267	2596	92.8
169	00h28m10s	0.5437	24.298	13.211	555.12	0.4654	0.4068	0.2678	0.5267	2596	92.9
170	00h28m20s	0.5437	24.298	13.211	554.96	0.4653	0.4068	0.2678	0.5267	2596	92.9
171	00h28m30s	0.5437	24.298	13.211	554.99	0.4653	0.4068	0.2678	0.5267	2596	92.9
172	00h28m40s	0.5437	24.298	13.211	554.74	0.4655	0.4068	0.2679	0.5267	2594	92.8
173	00h28m50s	0.5438	24.298	13.213	554.98	0.4653	0.4068	0.2678	0.5267	2596	92.8
174	00h29m00s	0.5438	24.298	13.213	555.04	0.4654	0.4068	0.2678	0.5267	2595	92.8
175	00h29m10s	0.5438	24.298	13.213	554.73	0.4654	0.4069	0.2678	0.5268	2596	92.9
176	00h29m20s	0.5438	24.298	13.213	554.74	0.4653	0.4067	0.2678	0.5267	2596	92.9
177	00h29m30s	0.5438	24.298	13.213	554.78	0.4654	0.4068	0.2678	0.5267	2595	92.9
178	00h29m40s	0.5438	24.298	13.213	554.78	0.4655	0.4068	0.2679	0.5267	2594	92.8
179	00h29m50s	0.5438	24.298	13.213	554.84	0.4654	0.4068	0.2678	0.5267	2595	92.9
180	00h30m00s	0.5439	24.298	13.216	554.38	0.4654	0.4068	0.2678	0.5267	2595	92.8

Test curves





*9.2 ANSI/IES TM-30-18 Color Rendition Report

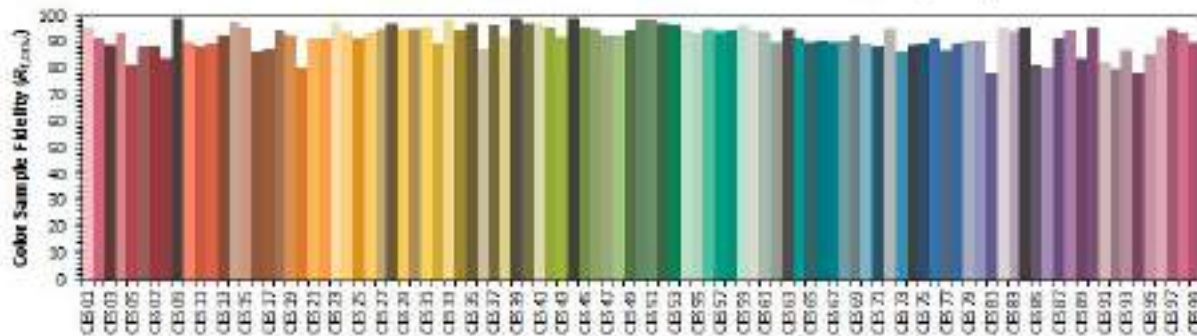
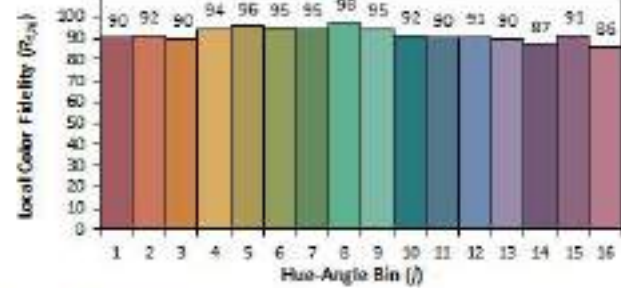
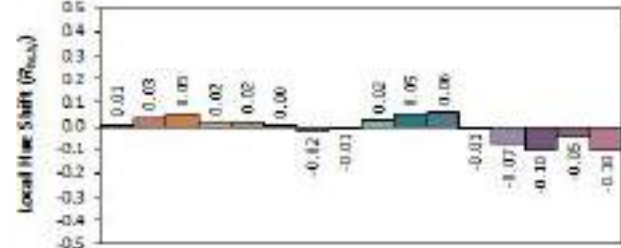
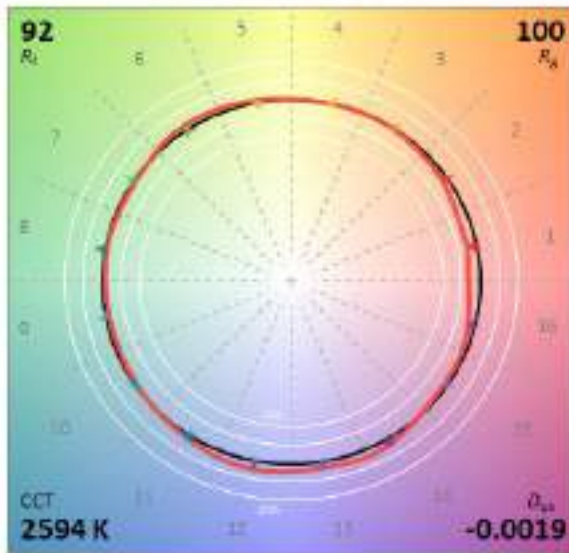
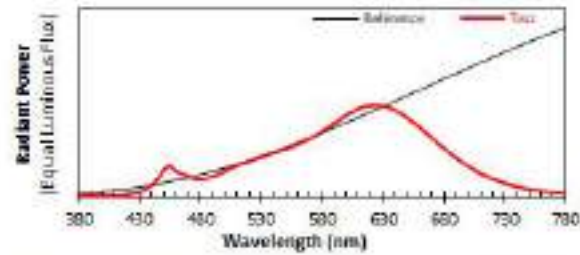
ANSI/IES TM-30-18 Color Rendition Report

Source:

Manufacturer: Guangdong Lunanhub Technology Co., Ltd

Date: 2025/3/18

Model: LUP840-0500V-L27-35-0-24-C (Vivoxyl FLEX rail+shield+louver)



Notes: This is a recommended method for displaying ANSI/IES TM-30-18 information.

x 0.4653

y 0.4085

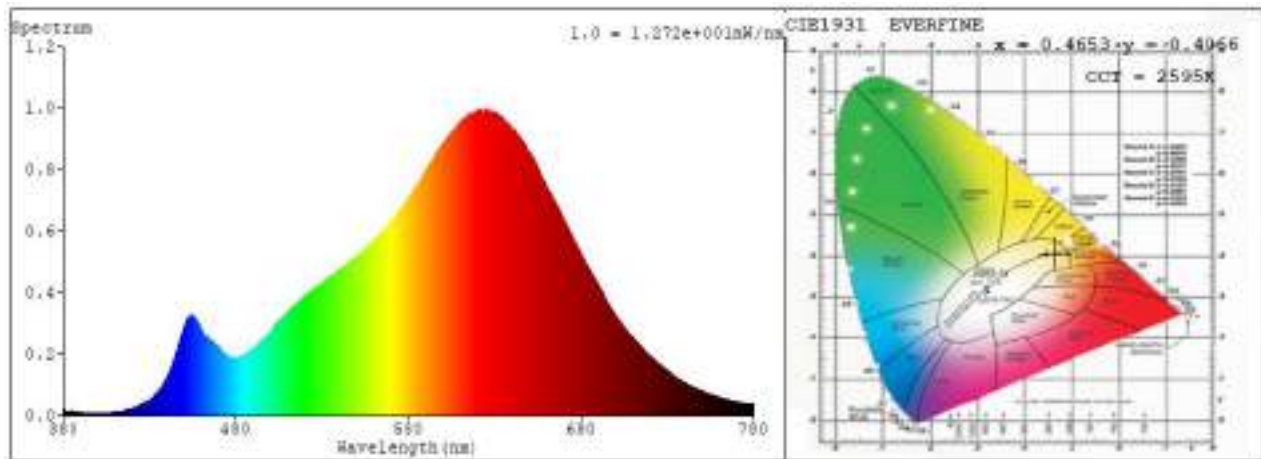
u' 0.2679

v' 0.5266

CIE 13.3-1995
(CRI)R_a 93R_g 58

Colors are for visual orientation purposes only. Created with the ANSI/IES TM-30-18 Calculator Version 2.00.

9.3 Relative Spectral Power Distribution



nm	mW	nm	mW	nm	mW	nm	mW	nm	mW
380	0.0087	414	0.0117	448	0.2499	482	0.1862	516	0.3642
381	0.0119	415	0.0126	449	0.2717	483	0.1892	517	0.3675
382	0.0112	416	0.014	450	0.2893	484	0.1937	518	0.3762
383	0.0066	417	0.0164	451	0.2986	485	0.1958	519	0.381
384	0.0119	418	0.0178	452	0.311	486	0.2019	520	0.3845
385	0.0028	419	0.0209	453	0.3198	487	0.2037	521	0.3853
386	0.0051	420	0.022	454	0.3308	488	0.2092	522	0.394
387	0.0064	421	0.023	455	0.3201	489	0.2105	523	0.3964
388	0.0109	422	0.0244	456	0.3202	490	0.2139	524	0.4023
389	0.0104	423	0.0245	457	0.3067	491	0.2219	525	0.4064
390	0.0073	424	0.0309	458	0.3011	492	0.2222	526	0.4084
391	0.0048	425	0.0319	459	0.2829	493	0.2327	527	0.4183
392	0.0072	426	0.035	460	0.2744	494	0.2388	528	0.4219
393	0.0056	427	0.0389	461	0.2722	495	0.243	529	0.4221
394	0.0087	428	0.0435	462	0.2635	496	0.2484	530	0.4285
395	0.007	429	0.0458	463	0.2536	497	0.2522	531	0.4343
396	0.0045	430	0.0495	464	0.2525	498	0.2627	532	0.4388
397	0.0043	431	0.0548	465	0.2432	499	0.266	533	0.4399
398	0.0013	432	0.0599	466	0.2383	500	0.2752	534	0.4398
399	0.0052	433	0.0661	467	0.237	501	0.2807	535	0.4536
400	0.0081	434	0.0713	468	0.2345	502	0.2899	536	0.4513
401	0.0064	435	0.0813	469	0.226	503	0.2941	537	0.4584
402	0.0065	436	0.0856	470	0.2254	504	0.3008	538	0.4601
403	0.0039	437	0.0933	471	0.2159	505	0.3049	539	0.4698
404	0.0061	438	0.1002	472	0.2056	506	0.311	540	0.4728
405	0.005	439	0.1145	473	0.2018	507	0.3167	541	0.476
406	0.0082	440	0.1199	474	0.1958	508	0.3221	542	0.479
407	0.0061	441	0.1294	475	0.1928	509	0.3264	543	0.4835
408	0.0088	442	0.1436	476	0.1918	510	0.3387	544	0.4874
409	0.0076	443	0.1588	477	0.186	511	0.3385	545	0.494
410	0.0091	444	0.1784	478	0.1853	512	0.3462	546	0.4971
411	0.0098	445	0.1948	479	0.1854	513	0.3535	547	0.5039
412	0.0112	446	0.2101	480	0.1853	514	0.3552	548	0.5063
413	0.0123	447	0.2281	481	0.1865	515	0.3619	549	0.5119

nm	mW	nm	mW	nm	mW	nm	mW	nm	mW
550	0.5142	599	0.8734	648	0.8734	697	0.3539	746	0.0918
551	0.5161	600	0.8712	649	0.8603	698	0.3471	747	0.0885
552	0.5215	601	0.8882	650	0.8552	699	0.3409	748	0.0859
553	0.5328	602	0.899	651	0.8454	700	0.3279	749	0.0842
554	0.5345	603	0.903	652	0.8367	701	0.3215	750	0.0814
555	0.5416	604	0.9105	653	0.8214	702	0.3131	751	0.0801
556	0.5453	605	0.919	654	0.8157	703	0.3066	752	0.0772
557	0.5517	606	0.9202	655	0.8018	704	0.2957	753	0.0743
558	0.5608	607	0.9334	656	0.7945	705	0.2906	754	0.0727
559	0.5614	608	0.9385	657	0.7809	706	0.2806	755	0.0706
560	0.5682	609	0.9547	658	0.7748	707	0.2742	756	0.0682
561	0.5731	610	0.9545	659	0.7656	708	0.2665	757	0.0672
562	0.5795	611	0.9556	660	0.7505	709	0.2615	758	0.0649
563	0.5837	612	0.9635	661	0.7389	710	0.2533	759	0.0632
564	0.5939	613	0.9668	662	0.7222	711	0.2478	760	0.062
565	0.6008	614	0.9719	663	0.7236	712	0.2404	761	0.0591
566	0.6004	615	0.9762	664	0.7074	713	0.2343	762	0.0576
567	0.6074	616	0.9784	665	0.6944	714	0.2269	763	0.0568
568	0.6156	617	0.982	666	0.6834	715	0.2195	764	0.0541
569	0.6239	618	0.9826	667	0.6712	716	0.215	765	0.0523
570	0.6274	619	0.9849	668	0.6607	717	0.2087	766	0.0511
571	0.6362	620	0.9957	669	0.6454	718	0.2022	767	0.0491
572	0.6429	621	0.9846	670	0.6352	719	0.1966	768	0.0483
573	0.6552	622	0.9954	671	0.6263	720	0.1936	769	0.0459
574	0.6592	623	0.9892	672	0.6136	721	0.1866	770	0.0449
575	0.6653	624	0.9908	673	0.6016	722	0.1836	771	0.0429
576	0.6746	625	0.982	674	0.5909	723	0.1774	772	0.0425
577	0.6809	626	0.9902	675	0.5785	724	0.1724	773	0.0421
578	0.6876	627	0.9861	676	0.5681	725	0.1665	774	0.0401
579	0.6962	628	0.9855	677	0.555	726	0.1635	775	0.0386
580	0.7011	629	0.9856	678	0.5466	727	0.1575	776	0.0377
581	0.7145	630	0.9837	679	0.5357	728	0.1528	777	0.0368
582	0.7207	631	0.977	680	0.5239	729	0.1503	778	0.0351
583	0.7327	632	0.979	681	0.5141	730	0.146	779	0.0357
584	0.7372	633	0.9794	682	0.5065	731	0.1421	780	0.0358
585	0.7478	634	0.9671	683	0.4926	732	0.1364		
586	0.7555	635	0.9692	684	0.4816	733	0.1322		
587	0.7578	636	0.9566	685	0.473	734	0.129		
588	0.7716	637	0.9508	686	0.4601	735	0.1255		
589	0.7821	638	0.95	687	0.4528	736	0.1196		
590	0.8007	639	0.9381	688	0.4423	737	0.1173		
591	0.8022	640	0.9343	689	0.4308	738	0.1158		
592	0.8073	641	0.9298	690	0.4265	739	0.1119		
593	0.8198	642	0.9172	691	0.4115	740	0.1095		
594	0.8271	643	0.9112	692	0.4019	741	0.1059		
595	0.8372	644	0.9039	693	0.3893	742	0.1017		
596	0.8499	645	0.897	694	0.3805	743	0.0996		
597	0.8584	646	0.8895	695	0.3735	744	0.0969		
598	0.8637	647	0.8822	696	0.3638	745	0.0938		

10. Goniophotometer Test results for LVFK40-0500W-L27-35-O-24-G(Vivoxy FLEX rail+shield+louver)

10.1 Test Data

Test Ambient Temperature	25.2°C	Test orientation	Downward
Operate time(Min.)	90	stabilization time(Min.)	30

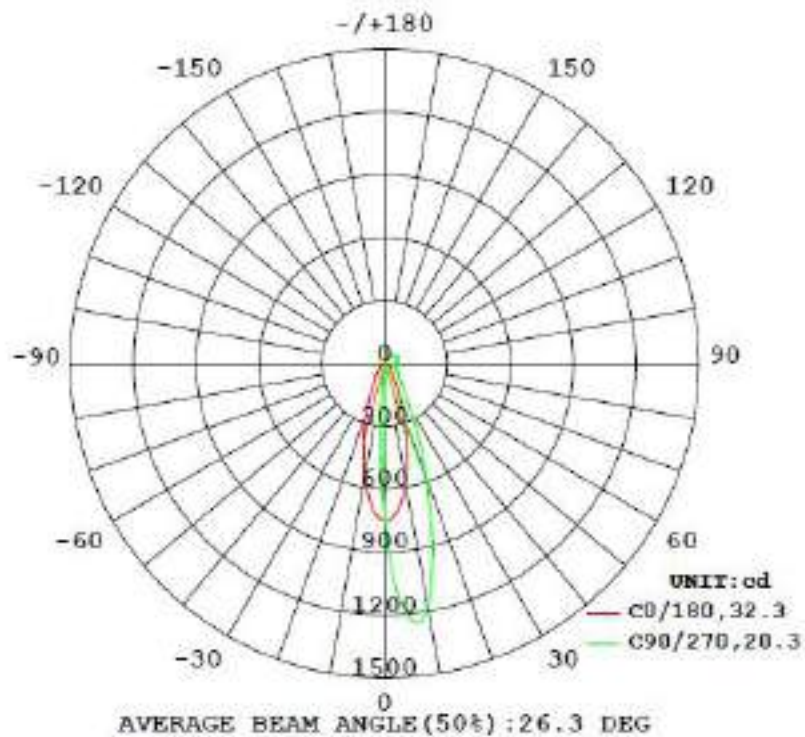
Electrical Measurement

Input Voltage (V)	Frequency (Hz)	Input Current(A)	Power Factor	Power(W)
24	--	0.528	1.0000	12.67

Optical Measurement

Luminous Flux (lm)	Efficacy(lm/W)	Imax (cd)	S/MH(C0/180)	S/MH(C90/270)
544.266	42.95	1242	0.52	0.12

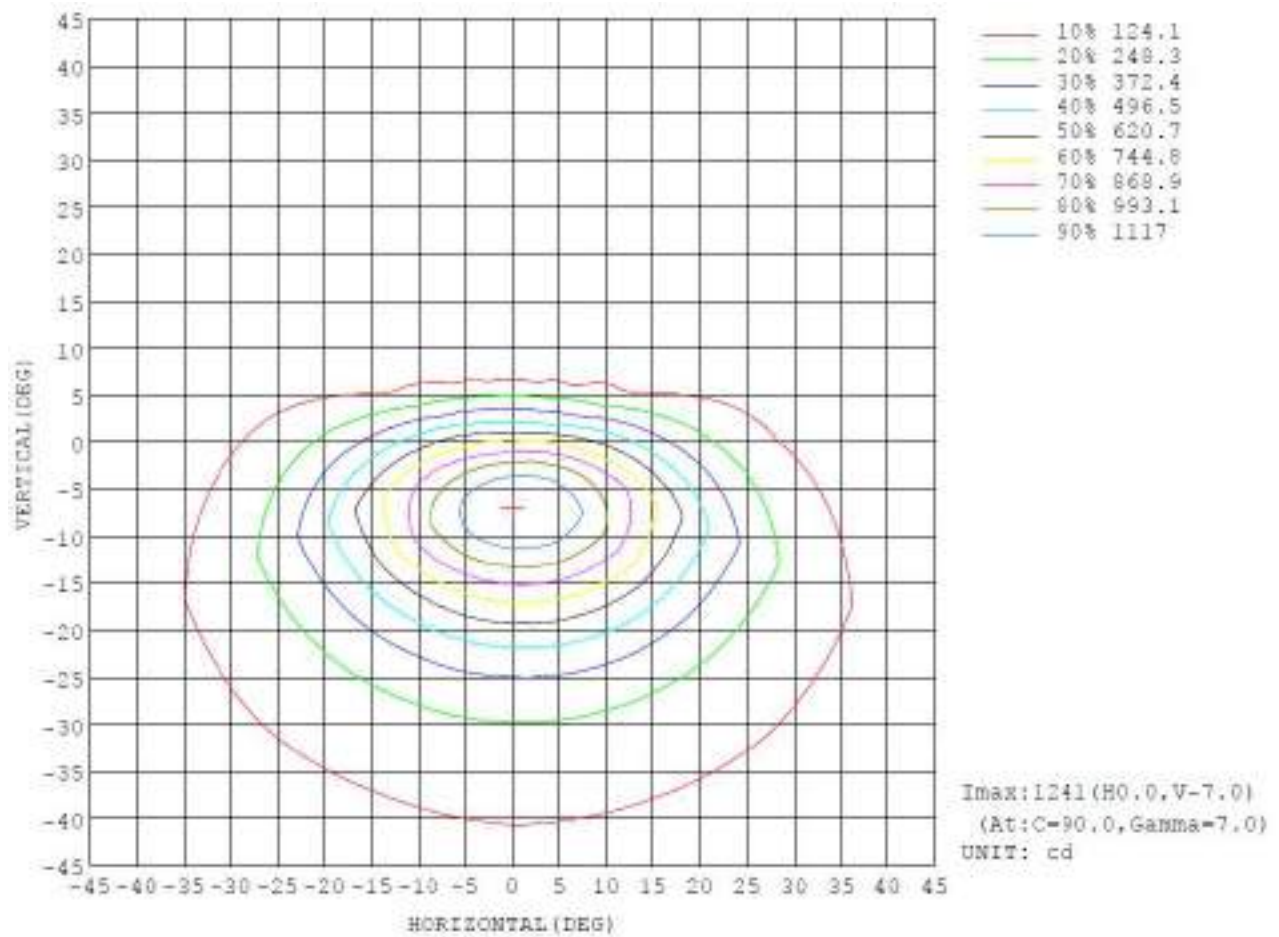
10.2 Luminous Intensity Distribution



10.3 Zonal Flux Diagram

T	c0	c45	c90	c135	c180	c225	c270	c315	T	Φ zone	Φ total	Wlum, lamp
10	579.4	1122	1192	1091	555.2	47.69	4.892	43.84	0-10	43.89	43.89	11.7, 11.7
20	277.8	852.9	885.1	864.4	270.1	3.685	2.095	3.731	10-20	120.0	168.9	88.7, 88.7
30	104.8	259.8	243.1	244.4	105.0	0.7889	0	0.5637	20-30	86.94	272.6	30.2, 30.1
40	50.78	125.7	128.4	126.8	50.81	0	0	0.0441	30-40	51.00	325.4	54.8, 54.8
50	30.19	77.34	80.49	78.06	32.38	0	0	0.0127	40-50	38.10	361.8	88.8, 88.8
60	15.94	39.10	40.85	39.85	12.40	0	0	0.0035	50-60	23.34	381.1	71.8, 71.8
70	12.58	44.68	56.97	44.92	14.77	0	0	0	60-70	24.73	418.8	76.4, 76.4
80	5.994	32.77	45.92	32.47	7.342	0	0	0	70-80	19.54	425.4	90.00
90	0.6941	33.17	50.77	34.09	0.6820	0	0	0	80-90	18.50	451.9	98.89
100	0	35.84	57.42	41.66	0.0318	0	0	0	90-100	13.47	470.4	88.4, 88.4
110	0	45.75	62.94	47.71	0.1817	0	0	0	100-110	22.70	491.2	88.2, 88.2
120	0	46.47	67.19	48.27	0.2186	0	0	0.0240	110-120	24.73	511.9	94.1, 94.1
130	0	40.58	61.15	43.39	0.1123	0.0340	0	0.2108	120-130	14.70	528.6	97.1, 97.1
140	0.0252	14.58	50.40	13.99	0.1365	0.2456	0.2180	0.3873	130-140	12.84	538.7	88.2, 88.2
150	0.1104	0.1894	15.86	8.9355	0.3272	0.4745	0.5117	0.4856	140-150	4.071	543.7	88.8, 88.8
160	0.1986	0.1885	8.1123	8.1908	0.4721	0.5793	0.4782	0.4276	150-160	0.4861	544.2	100, 100
170	0.2488	0.2014	8.1109	8.0572	0.4652	0.4678	0.1394	0.1619	160-170	0.0783	544.2	100, 100
180	0.3531	0.2099	8.1069	8.0427	0.2522	0.2803	0.1548	0.0514	170-180	0.0180	544.2	100, 100
DKW	LUMINOUS INTENSITY									unit:lm		

10.4 Isocandela Diagram



10.5 Luminous Distribution Intensity Data

Table--1

UNIT: cd

C (DEG) F (DEG)	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5			
0	753	753	753	753	753	753	753	753	753	753	753	753	753	753	753	753			
5	705	929	1091	1174	1193	1169	1081	910	690	481	352	266	248	266	348	487			
10	578	931	1122	1177	1182	1158	1091	898	595	295	67.2	13.1	6.88	12.5	63.9	252			
15	421	803	920	897	879	866	870	759	481	85.0	3.34	1.90	3.63	3.90	5.30	81.6			
20	278	602	688	602	585	573	584	561	270	18.6	3.69	2.90	2.09	2.88	3.73	16.5			
25	172	411	408	365	371	368	376	376	172	5.76	2.93	8.15	0.00	0.18	2.96	5.41			
30	105	267	260	246	243	240	244	244	108	4.28	0.79	0.00	0.00	0.00	0.56	4.25			
35	67.3	172	174	170	170	163	166	161	71.1	3.30	0.02	0.00	0.00	0.00	0.08	3.44			
40	50.8	113	126	125	129	122	121	111	50.8	2.79	0.00	0.00	0.00	0.00	0.05	4.11			
45	38.2	85.9	95.2	99.1	102	98.4	91.8	82.2	40.1	1.64	0.00	0.00	0.00	0.00	0.02	2.97			
50	30.2	67.2	77.3	83.8	86.7	83.9	76.1	65.2	32.3	0.80	0.00	0.00	0.00	0.00	0.01	2.35			
55	23.7	55.7	66.9	73.5	77.0	74.1	66.3	54.5	26.8	0.87	0.00	0.00	0.00	0.00	0.01	2.36			
60	18.9	47.5	59.1	69.8	68.9	65.9	58.8	46.4	22.4	0.99	0.00	0.00	0.00	0.00	0.00	2.26			
65	14.8	40.9	51.8	57.8	61.6	58.2	51.8	40.3	18.1	1.02	0.00	0.00	0.00	0.00	0.00	2.11			
70	12.6	34.9	44.7	51.1	55.0	51.5	44.9	34.5	14.8	0.93	0.00	0.00	0.00	0.00	0.00	1.54			
75	9.58	28.4	38.8	45.4	49.5	45.9	38.1	28.1	10.9	0.56	0.00	0.00	0.00	0.00	0.00	0.96			
80	5.99	22.0	32.8	41.9	45.8	41.9	35.5	22.0	7.98	0.26	0.00	0.00	0.00	0.00	0.00	0.60			
85	3.44	16.9	30.9	42.1	47.8	43.0	32.1	17.7	4.23	0.09	0.00	0.00	0.00	0.00	0.00	0.19			
90	0.49	16.9	35.2	44.7	50.8	45.9	34.9	18.6	0.68	0.00	0.00	0.00	0.00	0.00	0.00	0.08			
95	1.31	28.1	26.6	48.3	54.9	49.6	38.5	21.9	1.29	0.04	0.00	0.00	0.00	0.00	0.00	0.14			
100	0.00	23.8	29.8	51.0	57.4	52.2	41.6	26.0	0.82	0.10	0.00	0.00	0.00	0.00	0.00	0.20			
105	0.00	26.7	43.5	54.6	61.0	56.0	45.3	29.1	0.15	0.15	0.00	0.00	0.00	0.00	0.00	0.36			
110	0.00	28.4	45.7	57.8	63.9	58.8	47.7	31.0	0.18	0.25	0.00	0.00	0.00	0.00	0.00	0.56			
115	0.00	25.3	47.4	59.2	66.8	60.7	49.4	29.0	0.20	0.35	0.00	0.00	0.00	0.00	0.00	0.77			
120	0.00	16.8	46.5	60.3	67.1	61.8	46.3	21.2	0.22	0.43	0.00	0.00	0.00	0.00	0.03	0.99			
125	0.00	7.42	46.8	59.1	66.8	59.6	48.6	11.4	0.19	0.42	0.00	0.00	0.00	0.00	0.10	1.06			
130	0.00	2.66	40.6	57.0	61.1	58.2	43.3	4.96	0.11	0.42	0.03	0.00	0.00	0.00	0.21	1.08			
135	0.00	1.13	28.7	51.8	58.2	53.2	31.7	2.32	0.11	0.57	0.13	0.07	0.06	0.06	0.32	1.00			
140	0.01	0.40	14.9	41.1	50.4	42.8	16.8	1.42	0.14	0.74	0.25	0.22	0.22	0.21	0.29	0.92			
145	0.08	0.29	3.08	24.9	34.8	26.6	4.63	0.69	0.22	0.89	0.37	0.37	0.40	0.38	0.44	0.69			
150	0.11	0.24	0.40	8.41	15.9	9.66	0.94	0.26	0.32	0.88	0.47	0.48	0.53	0.48	0.49	0.57			
155	0.16	0.22	0.18	0.96	2.39	1.26	0.36	0.10	0.61	0.78	0.57	0.51	0.54	0.51	0.48	0.49			
160	0.20	0.22	0.19	0.16	0.11	0.18	0.19	0.88	0.47	0.57	0.58	0.47	0.48	0.46	0.43	0.41			
165	0.23	0.23	0.20	0.15	0.10	0.11	0.08	0.86	0.48	0.50	0.50	0.38	0.35	0.33	0.30	0.28			
170	0.25	0.23	0.20	0.15	0.11	0.08	0.06	0.86	0.47	0.46	0.41	0.32	0.24	0.18	0.16	0.17			
175	0.28	0.23	0.19	0.15	0.12	0.07	0.05	0.86	0.41	0.41	0.33	0.24	0.16	0.08	0.06	0.08			
180	0.35	0.28	0.21	0.15	0.10	0.05	0.04	0.88	0.35	0.35	0.28	0.21	0.15	0.10	0.05	0.04			

11. Integrating Sphere Test Results for LVFK40-0500W-L27-35-O-24-G(Vivoxy FLEX rail+shield+louver+return)

11.1 Test Data

Test Ambient Temperature (Integrating sphere internal temperature)	25.1℃	Test orientation	Downward
Operate time(Min.)	30	stabilization time(Min.)	0

Optical and Electrical Measurement Result

Number	Time	Current (A)	Voltage (V)	Power (W)	Flux(lm)	x	y	u'	v'	CCT (K)	Ra
0	00h00m00s	0.527	24	12.648	588.56	0.4662	0.409	0.2674	0.5277	2601	93.4
1	00h00m10s	0.5273	24	12.6552	587.86	0.4663	0.4089	0.2674	0.5277	2600	93.4
2	00h00m20s	0.5276	24	12.6624	587.74	0.4662	0.4087	0.2674	0.5276	2600	93.3
3	00h00m30s	0.5278	24	12.6672	587.39	0.4662	0.4087	0.2675	0.5276	2599	93.3
4	00h00m40s	0.5281	24	12.6744	587.23	0.4661	0.4086	0.2674	0.5275	2600	93.3
5	00h00m50s	0.5283	24	12.6792	587.04	0.4662	0.4087	0.2674	0.5276	2600	93.3
6	00h01m00s	0.5285	24	12.684	586.43	0.4661	0.4085	0.2675	0.5275	2599	93.3
7	00h01m10s	0.5287	24	12.6888	586.41	0.466	0.4084	0.2675	0.5274	2599	93.3
8	00h01m20s	0.5288	24	12.6912	586.14	0.4661	0.4085	0.2675	0.5275	2599	93.3
9	00h01m30s	0.529	24	12.696	585.8	0.4661	0.4084	0.2675	0.5275	2599	93.3
10	00h01m40s	0.5291	24	12.6984	585.57	0.466	0.4084	0.2675	0.5274	2599	93.3
11	00h01m50s	0.5293	24	12.7032	585.5	0.466	0.4084	0.2675	0.5275	2600	93.3
12	00h02m00s	0.5294	24	12.7056	585.36	0.4662	0.4085	0.2675	0.5275	2599	93.2
13	00h02m10s	0.5295	24	12.708	585.12	0.4662	0.4084	0.2676	0.5275	2597	93.3
14	00h02m20s	0.5297	24	12.7128	584.76	0.4661	0.4084	0.2676	0.5274	2598	93.3
15	00h02m30s	0.5298	24	12.7152	584.78	0.4661	0.4084	0.2675	0.5274	2599	93.2
16	00h02m40s	0.5299	24	12.7176	584.41	0.466	0.4082	0.2676	0.5274	2598	93.3
17	00h02m50s	0.53	24	12.72	584.28	0.466	0.4082	0.2675	0.5274	2599	93.3
18	00h03m00s	0.5301	24	12.7224	584.11	0.466	0.4084	0.2675	0.5274	2599	93.3
19	00h03m10s	0.5302	24	12.7248	584.14	0.4659	0.4083	0.2675	0.5274	2600	93.2
20	00h03m20s	0.5303	24	12.7272	583.73	0.466	0.4082	0.2676	0.5274	2598	93.2
21	00h03m30s	0.5304	24	12.7296	583.57	0.466	0.4081	0.2676	0.5273	2597	93.2
22	00h03m40s	0.5305	24	12.732	583.41	0.4661	0.4083	0.2676	0.5274	2598	93.2
23	00h03m50s	0.5306	24	12.7344	583.46	0.466	0.4081	0.2676	0.5273	2598	93.2

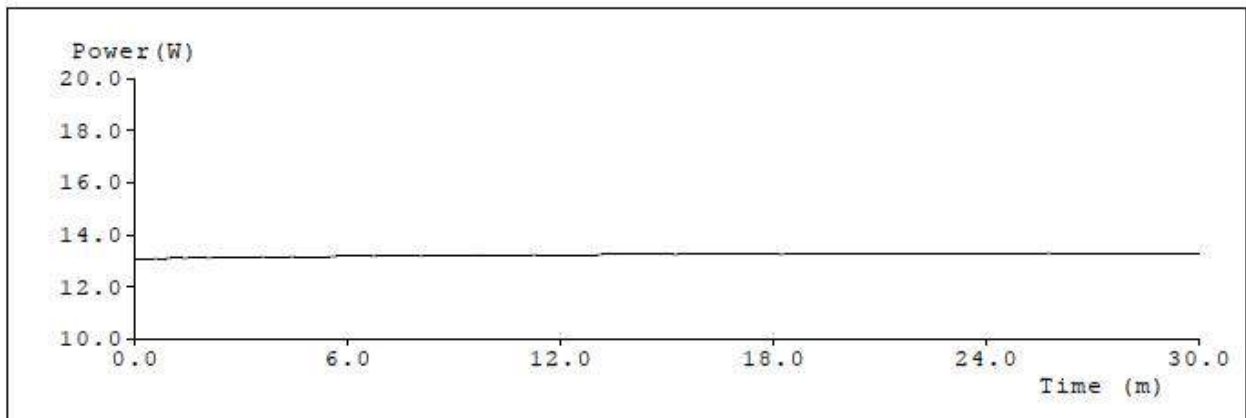
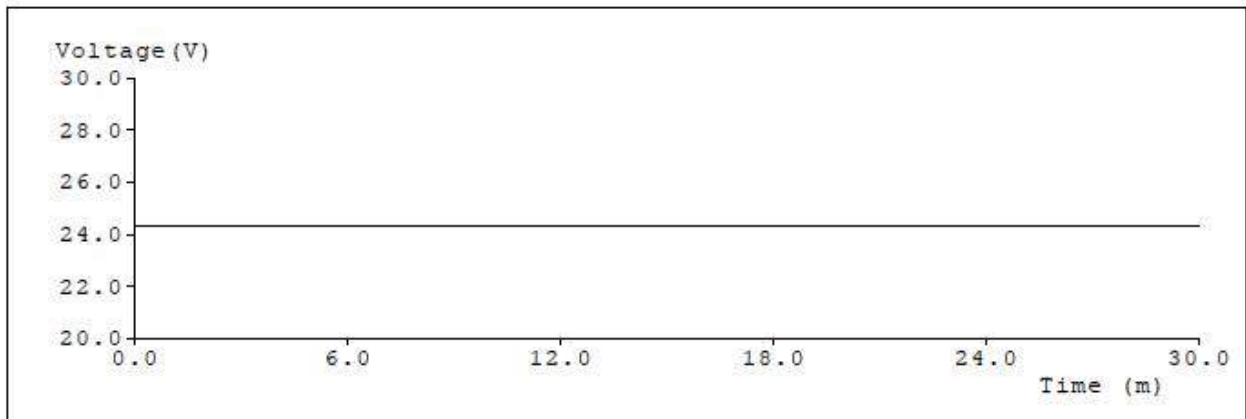
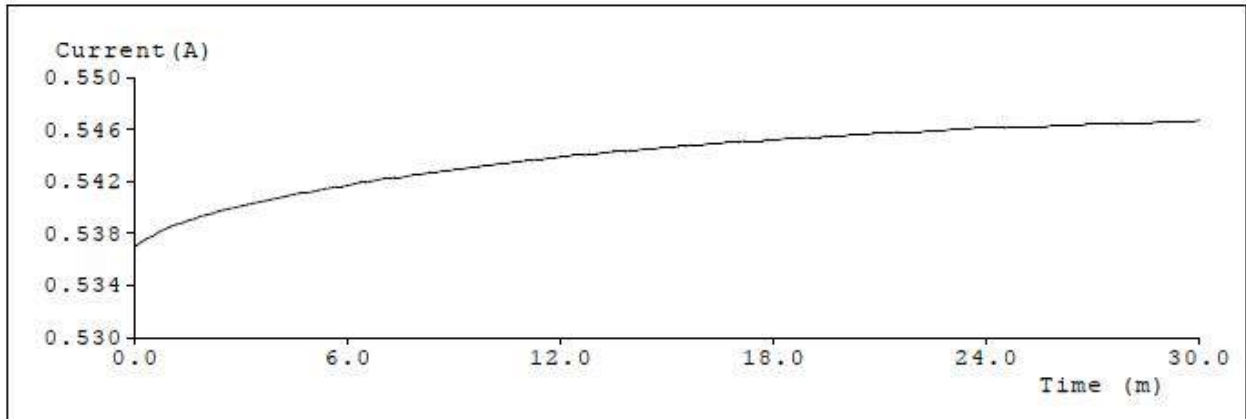
24	00h04m00s	0.5307	24	12.7368	583	0.466	0.408	0.2677	0.5273	2596	93.2
25	00h04m10s	0.5308	24	12.7392	583.03	0.466	0.4081	0.2676	0.5273	2598	93.2
26	00h04m20s	0.5309	24	12.7416	582.87	0.466	0.4081	0.2676	0.5273	2597	93.2
27	00h04m30s	0.531	24	12.744	582.72	0.4661	0.408	0.2677	0.5273	2596	93.2
28	00h04m40s	0.5311	24	12.7464	582.41	0.4661	0.408	0.2677	0.5273	2596	93.2
29	00h04m50s	0.5311	24	12.7464	582.25	0.466	0.408	0.2677	0.5273	2597	93.2
30	00h05m00s	0.5312	24	12.7488	582.18	0.4661	0.4081	0.2677	0.5273	2596	93.2
31	00h05m10s	0.5313	24	12.7512	582.02	0.466	0.408	0.2677	0.5273	2597	93.2
32	00h05m20s	0.5314	24	12.7536	581.97	0.466	0.408	0.2677	0.5273	2596	93.2
33	00h05m30s	0.5315	24	12.756	581.6	0.466	0.4079	0.2677	0.5272	2596	93.2
34	00h05m40s	0.5316	24	12.7584	581.6	0.466	0.4079	0.2677	0.5272	2596	93.2
35	00h05m50s	0.5316	24	12.7584	581.57	0.466	0.4081	0.2677	0.5273	2597	93.2
36	00h06m00s	0.5317	24	12.7608	581.25	0.466	0.4079	0.2677	0.5272	2596	93.2
37	00h06m10s	0.5318	24	12.7632	581.42	0.466	0.408	0.2677	0.5273	2596	93.2
38	00h06m20s	0.5319	24	12.7656	581.12	0.466	0.408	0.2677	0.5273	2596	93.2
39	00h06m30s	0.5319	24	12.7656	580.86	0.4661	0.4079	0.2678	0.5272	2595	93.2
40	00h06m40s	0.532	24	12.768	580.92	0.466	0.4078	0.2677	0.5272	2595	93.1
41	00h06m50s	0.5321	24	12.7704	580.74	0.466	0.4079	0.2677	0.5272	2595	93.2
42	00h07m00s	0.5322	24	12.7728	580.37	0.466	0.4079	0.2677	0.5272	2596	93.2
43	00h07m10s	0.5322	24	12.7728	580.31	0.466	0.4079	0.2678	0.5272	2595	93.1
44	00h07m20s	0.5323	24	12.7752	580.53	0.4661	0.4079	0.2677	0.5273	2595	93.2
45	00h07m30s	0.5323	24	12.7752	580.23	0.4661	0.4079	0.2678	0.5273	2594	93.1
46	00h07m40s	0.5324	24	12.7776	580.11	0.4659	0.4078	0.2677	0.5272	2596	93.1
47	00h07m50s	0.5325	24	12.78	580.08	0.466	0.4078	0.2677	0.5272	2595	93.1
48	00h08m00s	0.5325	24	12.78	579.79	0.466	0.4078	0.2678	0.5272	2595	93.1
49	00h08m10s	0.5326	24	12.7824	579.55	0.4661	0.4078	0.2678	0.5272	2594	93.1
50	00h08m20s	0.5327	24	12.7848	579.27	0.4659	0.4077	0.2677	0.5272	2595	93.1
51	00h08m30s	0.5327	24	12.7848	579.36	0.466	0.4078	0.2678	0.5272	2595	93.1
52	00h08m40s	0.5328	24	12.7872	579.21	0.4661	0.4078	0.2678	0.5272	2593	93.1
53	00h08m50s	0.5328	24	12.7872	579.01	0.466	0.4076	0.2678	0.5271	2594	93.1
54	00h09m00s	0.5329	24	12.7896	579.06	0.4661	0.4077	0.2678	0.5272	2593	93.1
55	00h09m10s	0.5329	24	12.7896	578.78	0.4661	0.4076	0.2679	0.5272	2593	93.1
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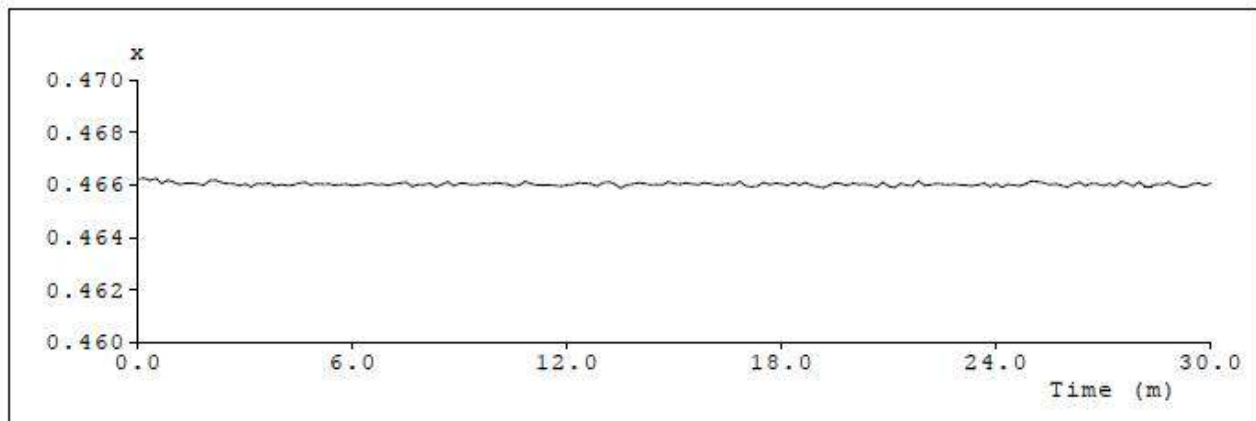
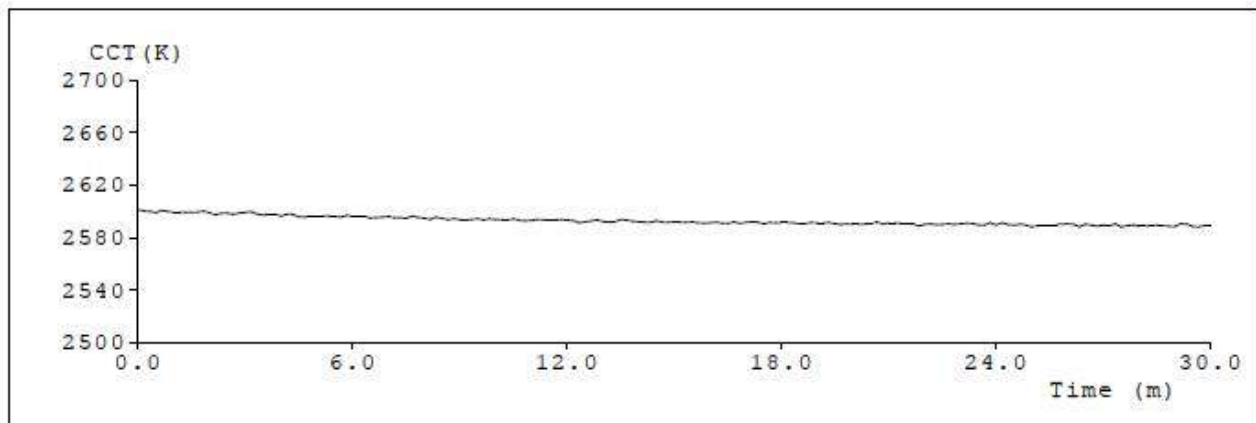
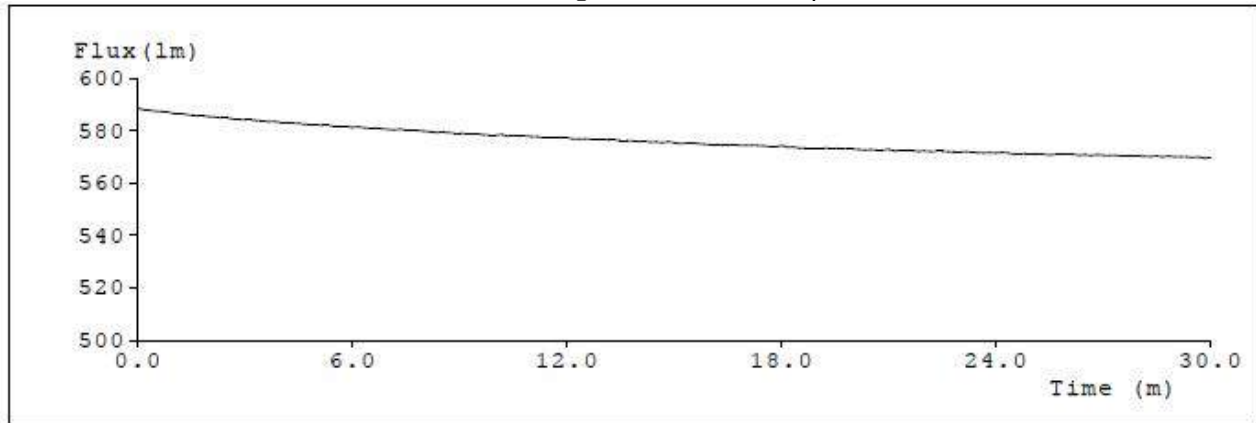
57	00h09m30s	0.5331	24	12.7944	578.71	0.466	0.4078	0.2678	0.5272	2594	93.1
58	00h09m40s	0.5331	24	12.7944	578.4	0.4661	0.4077	0.2679	0.5272	2593	93.1
59	00h09m50s	0.5332	24	12.7968	578.28	0.466	0.4077	0.2678	0.5272	2594	93.1
60	00h10m00s	0.5332	24	12.7968	578.25	0.4661	0.4077	0.2678	0.5272	2594	93.1
61	00h10m10s	0.5333	24	12.7992	578.44	0.4661	0.4077	0.2678	0.5272	2593	93.1
62	00h10m20s	0.5334	24	12.8016	577.91	0.466	0.4076	0.2679	0.5271	2593	93.1
63	00h10m30s	0.5334	24	12.8016	578.09	0.466	0.4076	0.2678	0.5271	2594	93.1
64	00h10m40s	0.5335	24	12.804	577.82	0.466	0.4075	0.2679	0.5271	2593	93.1
65	00h10m50s	0.5335	24	12.804	577.9	0.4661	0.4077	0.2679	0.5272	2593	93
66	00h11m00s	0.5336	24	12.8064	577.68	0.466	0.4076	0.2679	0.5271	2593	93.1
67	00h11m10s	0.5336	24	12.8064	577.55	0.466	0.4076	0.2678	0.5271	2594	93.1
68	00h11m20s	0.5337	24	12.8088	577.34	0.466	0.4076	0.2678	0.5271	2593	93.1
69	00h11m30s	0.5337	24	12.8088	577.32	0.466	0.4075	0.2679	0.5271	2593	93.1
70	00h11m40s	0.5338	24	12.8112	577.22	0.466	0.4075	0.2679	0.5271	2593	93.1
71	00h11m50s	0.5338	24	12.8112	577.24	0.466	0.4076	0.2678	0.5271	2594	93
72	00h12m00s	0.5339	24	12.8136	577.16	0.466	0.4076	0.2679	0.5271	2593	93.1
73	00h12m10s	0.5339	24	12.8136	576.82	0.466	0.4076	0.2679	0.5271	2593	93
74	00h12m20s	0.534	24	12.816	576.76	0.4661	0.4074	0.268	0.5271	2591	93
75	00h12m30s	0.534	24	12.816	576.77	0.4661	0.4075	0.2679	0.5271	2592	93
76	00h12m40s	0.534	24	12.816	576.68	0.466	0.4075	0.2679	0.5271	2592	93.1
77	00h12m50s	0.5341	24	12.8184	576.58	0.466	0.4075	0.2679	0.5271	2593	93
78	00h13m00s	0.5341	24	12.8184	576.71	0.4661	0.4076	0.2679	0.5271	2592	93
79	00h13m10s	0.5342	24	12.8208	576.4	0.4661	0.4076	0.2679	0.5271	2592	93
80	00h13m20s	0.5342	24	12.8208	576.38	0.466	0.4075	0.2679	0.5271	2592	93.1
81	00h13m30s	0.5343	24	12.8232	576.21	0.4659	0.4074	0.2679	0.527	2594	93
82	00h13m40s	0.5343	24	12.8232	576.15	0.466	0.4076	0.2679	0.5271	2593	93
83	00h13m50s	0.5343	24	12.8232	576.08	0.466	0.4075	0.2679	0.5271	2592	93.1
84	00h14m00s	0.5344	24	12.8256	575.79	0.4661	0.4075	0.2679	0.5271	2592	93
85	00h14m10s	0.5344	24	12.8256	575.98	0.466	0.4074	0.2679	0.5271	2592	93
86	00h14m20s	0.5345	24	12.828	575.57	0.466	0.4073	0.268	0.527	2591	93
87	00h14m30s	0.5345	24	12.828	575.73	0.466	0.4075	0.2679	0.5271	2593	93
88	00h14m40s	0.5345	24	12.828	575.35	0.466	0.4074	0.268	0.527	2592	93
89	00h14m50s	0.5346	24	12.8304	575.74	0.4661	0.4075	0.268	0.5271	2591	93

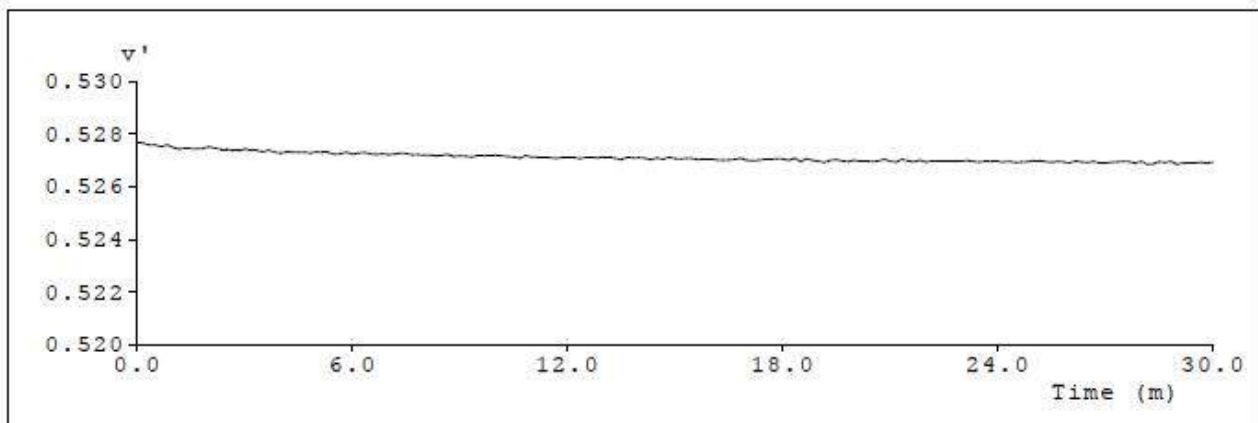
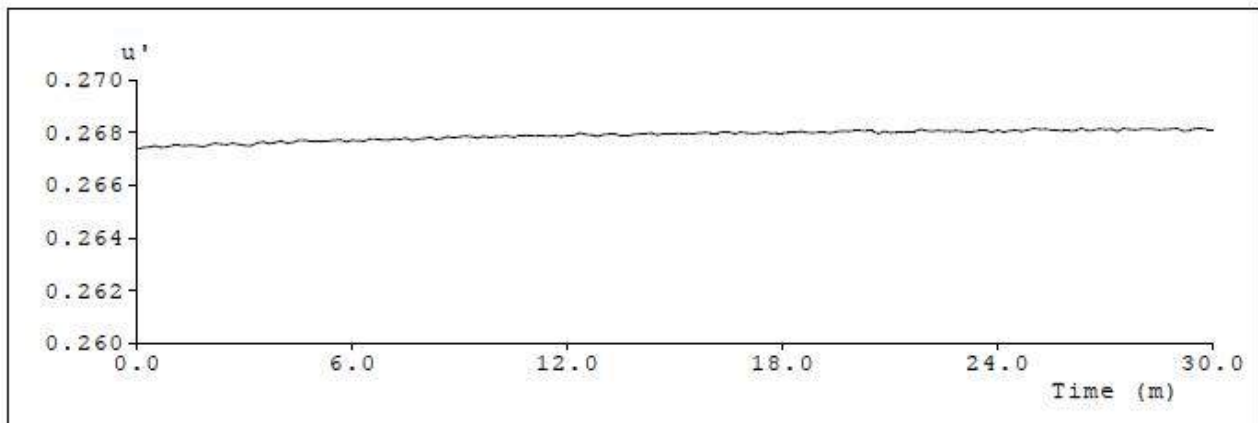
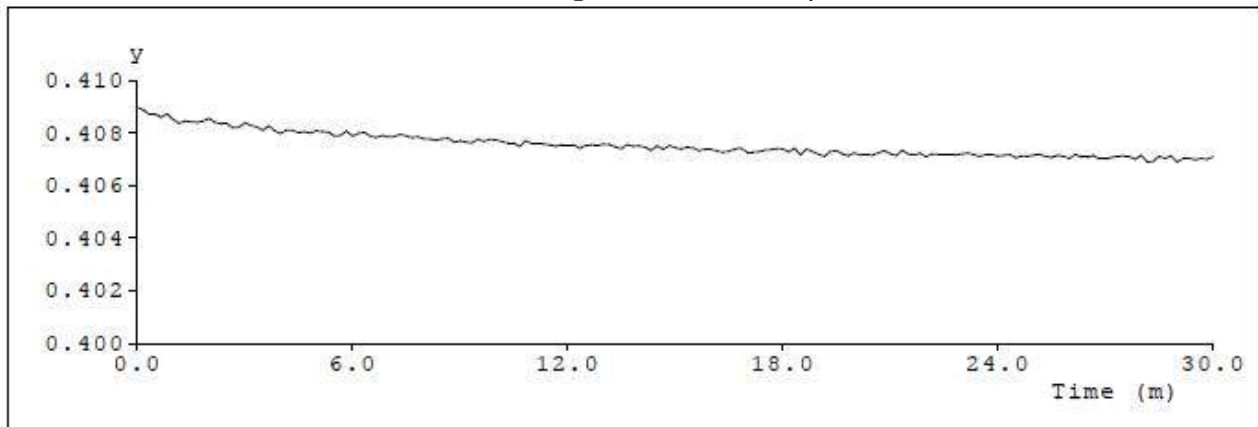
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91	00h15m10s	0.5346	24	12.8304	575.07	0.466	0.4074	0.268	0.5271	2591	93
92	00h15m20s	0.5347	24	12.8328	575.19	0.4661	0.4074	0.268	0.5271	2591	93
93	00h15m30s	0.5347	24	12.8328	575.24	0.466	0.4074	0.2679	0.5271	2592	93
94	00h15m40s	0.5348	24	12.8352	575.04	0.466	0.4073	0.268	0.527	2591	93
95	00h15m50s	0.5348	24	12.8352	574.78	0.4661	0.4074	0.268	0.5271	2591	93
96	00h16m00s	0.5348	24	12.8352	574.67	0.466	0.4074	0.268	0.5271	2591	93
97	00h16m10s	0.5349	24	12.8376	574.64	0.466	0.4073	0.268	0.527	2591	93
98	00h16m20s	0.5349	24	12.8376	574.39	0.466	0.4073	0.268	0.527	2591	93
99	00h16m30s	0.5349	24	12.8376	574.41	0.466	0.4073	0.268	0.527	2590	93
100	00h16m40s	0.535	24	12.84	574.55	0.466	0.4074	0.2679	0.527	2592	93
101	00h16m50s	0.535	24	12.84	574.39	0.4661	0.4074	0.268	0.5271	2590	93
102	00h17m00s	0.535	24	12.84	574.21	0.466	0.4073	0.268	0.527	2591	93
103	00h17m10s	0.5351	24	12.8424	574.44	0.4659	0.4073	0.2679	0.527	2592	93
104	00h17m20s	0.5351	24	12.8424	574.31	0.466	0.4073	0.268	0.527	2592	93
105	00h17m30s	0.5351	24	12.8424	574.18	0.4661	0.4073	0.268	0.527	2590	93
106	00h17m40s	0.5351	24	12.8424	573.89	0.466	0.4074	0.268	0.527	2591	93
107	00h17m50s	0.5352	24	12.8448	573.78	0.4661	0.4074	0.268	0.5271	2591	93
108	00h18m00s	0.5352	24	12.8448	574.2	0.466	0.4074	0.268	0.5271	2591	93
109	00h18m10s	0.5352	24	12.8448	573.68	0.466	0.4073	0.268	0.527	2591	93
110	00h18m20s	0.5353	24	12.8472	573.77	0.4661	0.4074	0.268	0.5271	2591	93
111	00h18m30s	0.5353	24	12.8472	573.29	0.466	0.4072	0.268	0.527	2590	93
112	00h18m40s	0.5353	24	12.8472	573.39	0.4661	0.4074	0.268	0.5271	2591	92.9
113	00h18m50s	0.5353	24	12.8472	573.32	0.466	0.4073	0.268	0.527	2591	93
114	00h19m00s	0.5354	24	12.8496	573.41	0.4659	0.4072	0.268	0.527	2591	93
115	00h19m10s	0.5354	24	12.8496	573.36	0.4659	0.4071	0.268	0.5269	2591	93
116	00h19m20s	0.5354	24	12.8496	573.21	0.466	0.4073	0.268	0.527	2591	93
117	00h19m30s	0.5355	24	12.852	573.17	0.4661	0.4073	0.268	0.527	2590	93
118	00h19m40s	0.5355	24	12.852	573.07	0.466	0.4072	0.2681	0.527	2590	93
119	00h19m50s	0.5355	24	12.852	573.04	0.466	0.4071	0.268	0.5269	2590	93
120	00h20m00s	0.5355	24	12.852	572.98	0.4661	0.4072	0.2681	0.527	2590	92.9
121	00h20m10s	0.5356	24	12.8544	572.72	0.466	0.4072	0.2681	0.527	2590	93
122	00h20m20s	0.5356	24	12.8544	572.62	0.466	0.4072	0.2681	0.527	2590	92.9

123	00h20m30s	0.5356	24	12.8544	572.78	0.466	0.4071	0.2681	0.527	2590	92.9
124	00h20m40s	0.5356	24	12.8544	572.65	0.4659	0.4072	0.268	0.527	2592	93
125	00h20m50s	0.5357	24	12.8568	572.62	0.4661	0.4073	0.268	0.527	2590	92.9
126	00h21m00s	0.5357	24	12.8568	572.82	0.4659	0.4072	0.268	0.527	2591	93
127	00h21m10s	0.5357	24	12.8568	572.26	0.4659	0.4071	0.268	0.5269	2591	93
128	00h21m20s	0.5357	24	12.8568	572.52	0.4661	0.4073	0.268	0.527	2591	92.9
129	00h21m30s	0.5358	24	12.8592	572.34	0.466	0.4072	0.268	0.527	2591	93
130	00h21m40s	0.5358	24	12.8592	572.32	0.466	0.4072	0.268	0.527	2591	92.9
131	00h21m50s	0.5358	24	12.8592	572.08	0.4662	0.4072	0.2681	0.527	2588	92.9
132	00h22m00s	0.5358	24	12.8592	572.16	0.466	0.4071	0.2681	0.5269	2590	93
133	00h22m10s	0.5358	24	12.8592	571.96	0.466	0.4072	0.268	0.527	2590	92.9
134	00h22m20s	0.5359	24	12.8616	572.02	0.4661	0.4072	0.2681	0.527	2590	92.9
135	00h22m30s	0.5359	24	12.8616	572.04	0.466	0.4072	0.2681	0.527	2590	92.9
136	00h22m40s	0.5359	24	12.8616	571.92	0.466	0.4072	0.268	0.527	2590	93
137	00h22m50s	0.5359	24	12.8616	571.79	0.466	0.4072	0.2681	0.527	2590	92.9
138	00h23m00s	0.536	24	12.864	571.84	0.466	0.4072	0.268	0.527	2590	93
139	00h23m10s	0.536	24	12.864	572	0.466	0.4072	0.268	0.527	2591	92.9
140	00h23m20s	0.536	24	12.864	571.7	0.466	0.4072	0.268	0.527	2591	93
141	00h23m30s	0.536	24	12.864	571.58	0.466	0.4071	0.2681	0.5269	2590	92.9
142	00h23m40s	0.5361	24	12.8664	571.39	0.4661	0.4072	0.2681	0.527	2589	92.9
143	00h23m50s	0.5361	24	12.8664	571.53	0.4659	0.4072	0.268	0.527	2591	93
144	00h24m00s	0.5361	24	12.8664	571.48	0.466	0.4071	0.2681	0.5269	2589	93
145	00h24m10s	0.5361	24	12.8664	571.74	0.4659	0.4071	0.268	0.5269	2591	92.9
146	00h24m20s	0.5361	24	12.8664	571.45	0.466	0.4072	0.2681	0.527	2590	92.9
147	00h24m30s	0.5361	24	12.8664	570.91	0.466	0.4071	0.2681	0.5269	2589	93
148	00h24m40s	0.5362	24	12.8688	571.01	0.466	0.4071	0.268	0.5269	2590	92.9
149	00h24m50s	0.5362	24	12.8688	571.14	0.466	0.4071	0.2681	0.5269	2589	92.9
150	00h25m00s	0.5362	24	12.8688	571.21	0.4662	0.4072	0.2682	0.527	2588	92.9
151	00h25m10s	0.5362	24	12.8688	571.24	0.4661	0.4072	0.2681	0.527	2589	92.9
152	00h25m20s	0.5362	24	12.8688	570.89	0.4661	0.4071	0.2681	0.527	2589	92.9
153	00h25m30s	0.5362	24	12.8688	570.73	0.466	0.4071	0.2681	0.5269	2589	92.9
154	00h25m40s	0.5362	24	12.8688	570.96	0.466	0.4071	0.2681	0.527	2589	92.9
155	00h25m50s	0.5363	24	12.8712	570.86	0.466	0.4071	0.2681	0.5269	2590	92.9

156	00h26m00s	0.5363	24	12.8712	571.05	0.4659	0.407	0.2681	0.5269	2590	92.9
157	00h26m10s	0.5363	24	12.8712	570.87	0.466	0.4072	0.2681	0.527	2590	92.9
158	00h26m20s	0.5363	24	12.8712	570.54	0.4661	0.4071	0.2682	0.5269	2588	92.9
159	00h26m30s	0.5363	24	12.8712	570.75	0.466	0.4071	0.2681	0.5269	2590	92.9
160	00h26m40s	0.5363	24	12.8712	570.44	0.466	0.4071	0.2681	0.527	2589	93
161	00h26m50s	0.5364	24	12.8736	570.76	0.466	0.407	0.2681	0.5269	2588	92.9
162	00h27m00s	0.5364	24	12.8736	570.52	0.466	0.407	0.2681	0.5269	2589	92.9
163	00h27m10s	0.5364	24	12.8736	570.35	0.4661	0.4071	0.2681	0.5269	2589	92.9
164	00h27m20s	0.5364	24	12.8736	570.6	0.466	0.4071	0.268	0.5269	2590	93
165	00h27m30s	0.5364	24	12.8736	570.32	0.4661	0.4071	0.2682	0.527	2588	92.9
166	00h27m40s	0.5364	24	12.8736	570.35	0.4661	0.4071	0.2681	0.5269	2589	92.9
167	00h27m50s	0.5365	24	12.876	570.26	0.4659	0.407	0.2681	0.5269	2590	92.9
168	00h28m00s	0.5365	24	12.876	570.33	0.4661	0.4071	0.2681	0.527	2588	92.9
169	00h28m10s	0.5365	24	12.876	570.11	0.466	0.4069	0.2682	0.5268	2589	92.9
170	00h28m20s	0.5365	24	12.876	570.02	0.4659	0.4069	0.2681	0.5269	2589	92.9
171	00h28m30s	0.5365	24	12.876	570.29	0.466	0.4071	0.2681	0.5269	2589	92.9
172	00h28m40s	0.5365	24	12.876	569.93	0.466	0.407	0.2681	0.5269	2589	92.9
173	00h28m50s	0.5366	24	12.8784	570.24	0.4661	0.4071	0.2681	0.527	2588	92.9
174	00h29m00s	0.5366	24	12.8784	569.95	0.466	0.4069	0.2682	0.5269	2588	92.9
175	00h29m10s	0.5366	24	12.8784	569.96	0.4659	0.407	0.2681	0.5269	2590	92.9
176	00h29m20s	0.5366	24	12.8784	569.96	0.4659	0.407	0.2681	0.5269	2590	92.9
177	00h29m30s	0.5366	24	12.8784	569.79	0.466	0.407	0.2681	0.5269	2588	92.9
178	00h29m40s	0.5366	24	12.8784	569.93	0.4661	0.407	0.2682	0.5269	2588	92.9
179	00h29m50s	0.5366	24	12.8784	569.36	0.466	0.407	0.2681	0.5269	2589	92.9
180	00h30m00s	0.5367	24	12.8808	569.83	0.466	0.4071	0.2681	0.5269	2589	92.9

Test curves





*11.2 ANSI/IES TM-30-18 Color Rendition Report

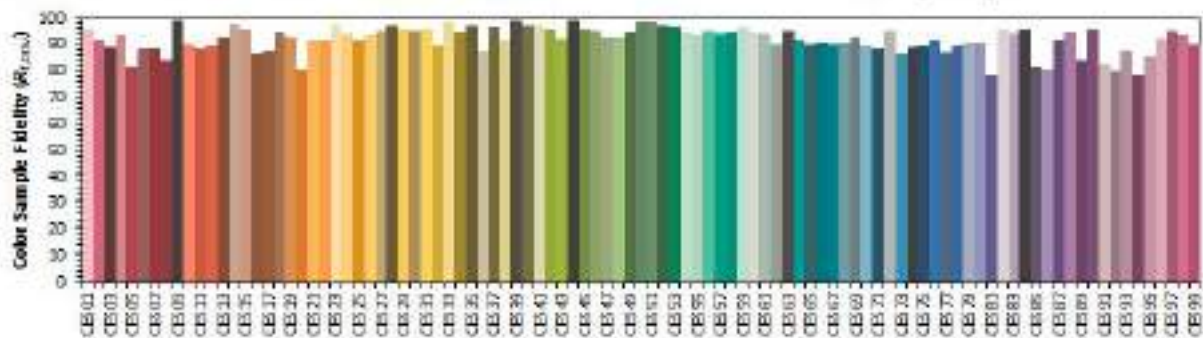
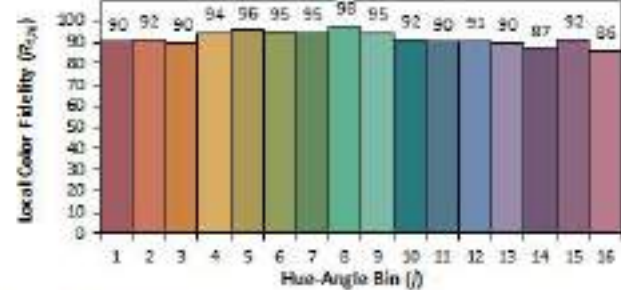
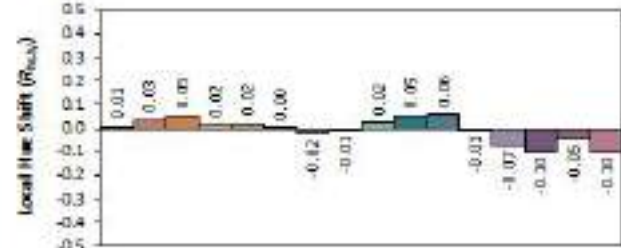
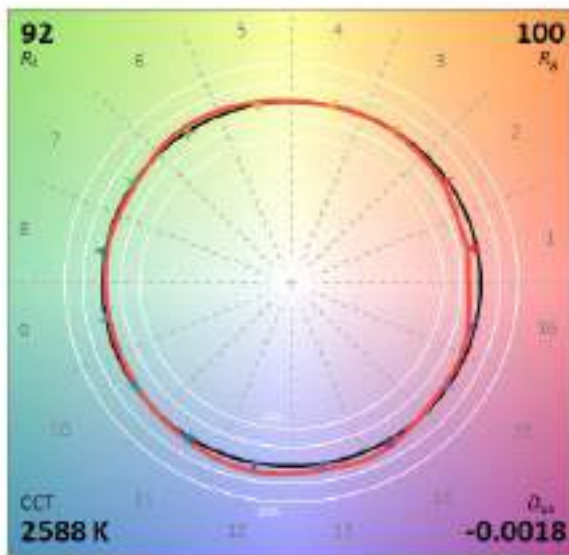
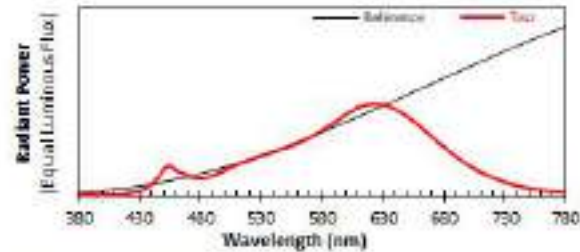
ANSI/IES TM-30-18 Color Rendition Report

Source:

Manufacturer: Guangdong Lunshub Technology Co., Ltd

Date: 2025/3/18

Model: LUPED0-0500V-L27-35-0-2d-C (Vivoxyl FLEX rail+shield+louver+return)



Notes: This is a recommended method for displaying ANSI/IES TM-30-18 information.

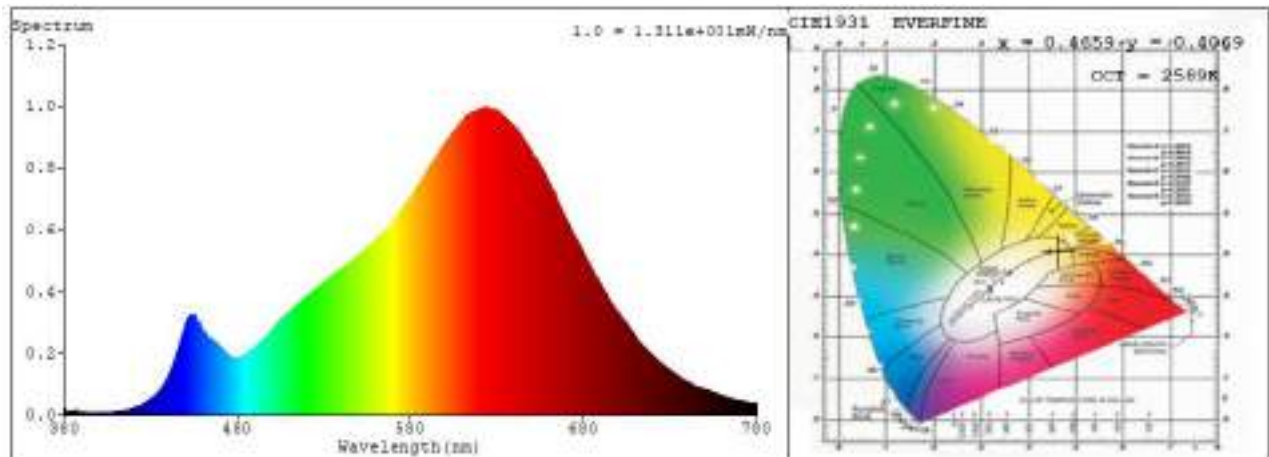
x 0.4660
 y 0.4069
 u' 0.2682
 v' 0.5268

CIE 13.3-1995
 (CRI)

R_A 93
 R_g 58

Colors are for visual orientation purposes only. Created with the ANSI/IES TM-30-18 Calculator Version 2.00.

11.3 Relative Spectral Power Distribution



nm	mW	nm	mW	nm	mW	nm	mW	nm	mW
380	0.0125	414	0.011	448	0.2475	482	0.1869	516	0.3617
381	0.0104	415	0.0128	449	0.2641	483	0.1899	517	0.3699
382	0.0021	416	0.0128	450	0.2843	484	0.1892	518	0.371
383	0.0078	417	0.0136	451	0.2955	485	0.1937	519	0.3781
384	0.0107	418	0.0169	452	0.303	486	0.1977	520	0.3827
385	0.0055	419	0.0186	453	0.3172	487	0.2004	521	0.3853
386	0.0055	420	0.0221	454	0.3224	488	0.2083	522	0.3913
387	0.0075	421	0.0241	455	0.315	489	0.209	523	0.395
388	0.0019	422	0.0252	456	0.3111	490	0.2131	524	0.4001
389	0.0071	423	0.0248	457	0.2996	491	0.221	525	0.4049
390	0.0048	424	0.0285	458	0.2955	492	0.2225	526	0.408
391	0.0073	425	0.0332	459	0.2847	493	0.2296	527	0.4151
392	0.0046	426	0.0337	460	0.2781	494	0.2378	528	0.4217
393	0.006	427	0.0378	461	0.2679	495	0.2416	529	0.4227
394	0.0066	428	0.043	462	0.2576	496	0.2472	530	0.4276
395	0.0034	429	0.0442	463	0.252	497	0.2485	531	0.4315
396	0.0042	430	0.0492	464	0.2493	498	0.2602	532	0.434
397	0.0064	431	0.0551	465	0.2426	499	0.2667	533	0.4408
398	0.0036	432	0.0587	466	0.24	500	0.272	534	0.4416
399	0.0033	433	0.062	467	0.2355	501	0.2777	535	0.4481
400	0.0058	434	0.0715	468	0.2309	502	0.2821	536	0.448
401	0.0065	435	0.0785	469	0.2219	503	0.2909	537	0.4569
402	0.0062	436	0.0832	470	0.2206	504	0.2998	538	0.46
403	0.0063	437	0.0917	471	0.2131	505	0.3015	539	0.4645
404	0.0056	438	0.0964	472	0.2047	506	0.3063	540	0.4695
405	0.0032	439	0.113	473	0.1993	507	0.3143	541	0.4752
406	0.0057	440	0.1197	474	0.1936	508	0.3215	542	0.4775
407	0.0071	441	0.129	475	0.1903	509	0.3264	543	0.4806
408	0.0075	442	0.145	476	0.19	510	0.3326	544	0.485
409	0.007	443	0.16	477	0.1834	511	0.3363	545	0.4911
410	0.0104	444	0.1737	478	0.1842	512	0.3426	546	0.496
411	0.008	445	0.1927	479	0.1844	513	0.354	547	0.5021
412	0.0105	446	0.208	480	0.1857	514	0.3525	548	0.5057
413	0.0114	447	0.2256	481	0.1843	515	0.3608	549	0.5101

nm	mW	nm	mW	nm	mW	nm	mW	nm	mW
550	0.5117	599	0.8726	648	0.8689	697	0.3558	746	0.0919
551	0.5174	600	0.8732	649	0.865	698	0.3493	747	0.0893
552	0.521	601	0.8847	650	0.8548	699	0.3408	748	0.0883
553	0.5317	602	0.8943	651	0.8436	700	0.3339	749	0.0839
554	0.5351	603	0.9	652	0.8344	701	0.3193	750	0.0802
555	0.54	604	0.9079	653	0.8259	702	0.3144	751	0.0794
556	0.5446	605	0.9152	654	0.8163	703	0.3076	752	0.0776
557	0.5489	606	0.9202	655	0.8056	704	0.2982	753	0.0745
558	0.5567	607	0.9352	656	0.7949	705	0.292	754	0.0725
559	0.5604	608	0.9375	657	0.7824	706	0.2842	755	0.0696
560	0.5622	609	0.9561	658	0.7753	707	0.2739	756	0.0687
561	0.5706	610	0.9466	659	0.762	708	0.2718	757	0.0667
562	0.5753	611	0.9568	660	0.7501	709	0.2618	758	0.0647
563	0.5821	612	0.9651	661	0.7387	710	0.2556	759	0.0626
564	0.5884	613	0.9663	662	0.7261	711	0.249	760	0.0607
565	0.5979	614	0.97	663	0.7229	712	0.2424	761	0.0596
566	0.5974	615	0.9744	664	0.7081	713	0.2353	762	0.0585
567	0.6055	616	0.9767	665	0.6924	714	0.2271	763	0.0562
568	0.6138	617	0.9848	666	0.6857	715	0.22	764	0.0542
569	0.6207	618	0.9796	667	0.6723	716	0.2152	765	0.0522
570	0.6256	619	0.9826	668	0.6641	717	0.2101	766	0.0509
571	0.6349	620	0.9884	669	0.6443	718	0.2033	767	0.0491
572	0.6418	621	0.9839	670	0.6374	719	0.2001	768	0.0479
573	0.651	622	0.9894	671	0.6281	720	0.1954	769	0.046
574	0.6528	623	0.9915	672	0.6163	721	0.1882	770	0.0452
575	0.664	624	0.9854	673	0.6024	722	0.1837	771	0.0438
576	0.6716	625	0.9814	674	0.5883	723	0.179	772	0.0438
577	0.6786	626	0.9873	675	0.5786	724	0.1716	773	0.042
578	0.6874	627	0.9865	676	0.5701	725	0.1687	774	0.0399
579	0.6936	628	0.9873	677	0.5577	726	0.1636	775	0.0395
580	0.6999	629	0.9861	678	0.545	727	0.1576	776	0.0375
581	0.7074	630	0.9824	679	0.5388	728	0.1562	777	0.0379
582	0.7197	631	0.9759	680	0.5264	729	0.1488	778	0.0354
583	0.7282	632	0.9773	681	0.512	730	0.1465	779	0.036
584	0.7372	633	0.9775	682	0.5051	731	0.1417	780	0.0361
585	0.7437	634	0.9678	683	0.4922	732	0.1376		
586	0.7504	635	0.9664	684	0.4834	733	0.1339		
587	0.7634	636	0.9532	685	0.4731	734	0.1287		
588	0.7662	637	0.949	686	0.4613	735	0.1286		
589	0.7782	638	0.9475	687	0.4514	736	0.1215		
590	0.791	639	0.9392	688	0.4453	737	0.1188		
591	0.7969	640	0.9329	689	0.4336	738	0.1146		
592	0.8041	641	0.9278	690	0.4222	739	0.1112		
593	0.8153	642	0.9151	691	0.4123	740	0.11		
594	0.8213	643	0.9107	692	0.4027	741	0.1062		
595	0.8312	644	0.9029	693	0.3931	742	0.1026		
596	0.843	645	0.8987	694	0.3846	743	0.0981		
597	0.851	646	0.8897	695	0.3749	744	0.0964		
598	0.8651	647	0.8789	696	0.3619	745	0.0945		

12. Goniophotometer Test results for LVFK40-0500W-L27-35-O-24-G(Vivoxy FLEX rail+shield+louver+return)

12.1 Test Data

Test Ambient Temperature	25.2°C	Test orientation	Downward
Operate time(Min.)	90	stabilization time(Min.)	30

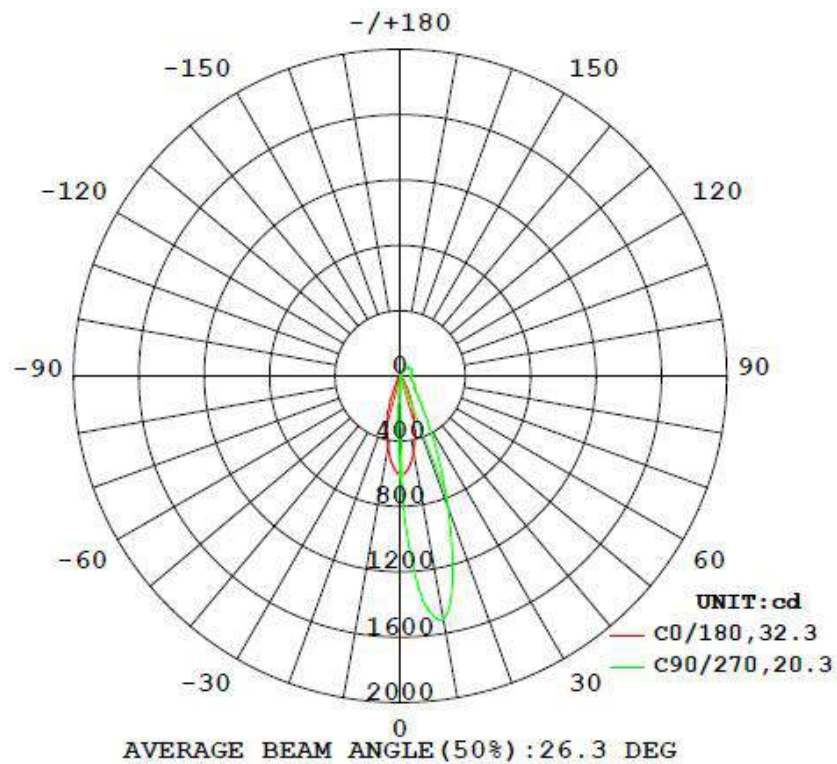
Electrical Measurement

Input Voltage (V)	Frequency (Hz)	Input Current(A)	Power Factor	Power(W)
24	--	0.528	1.0000	12.67

Optical Measurement

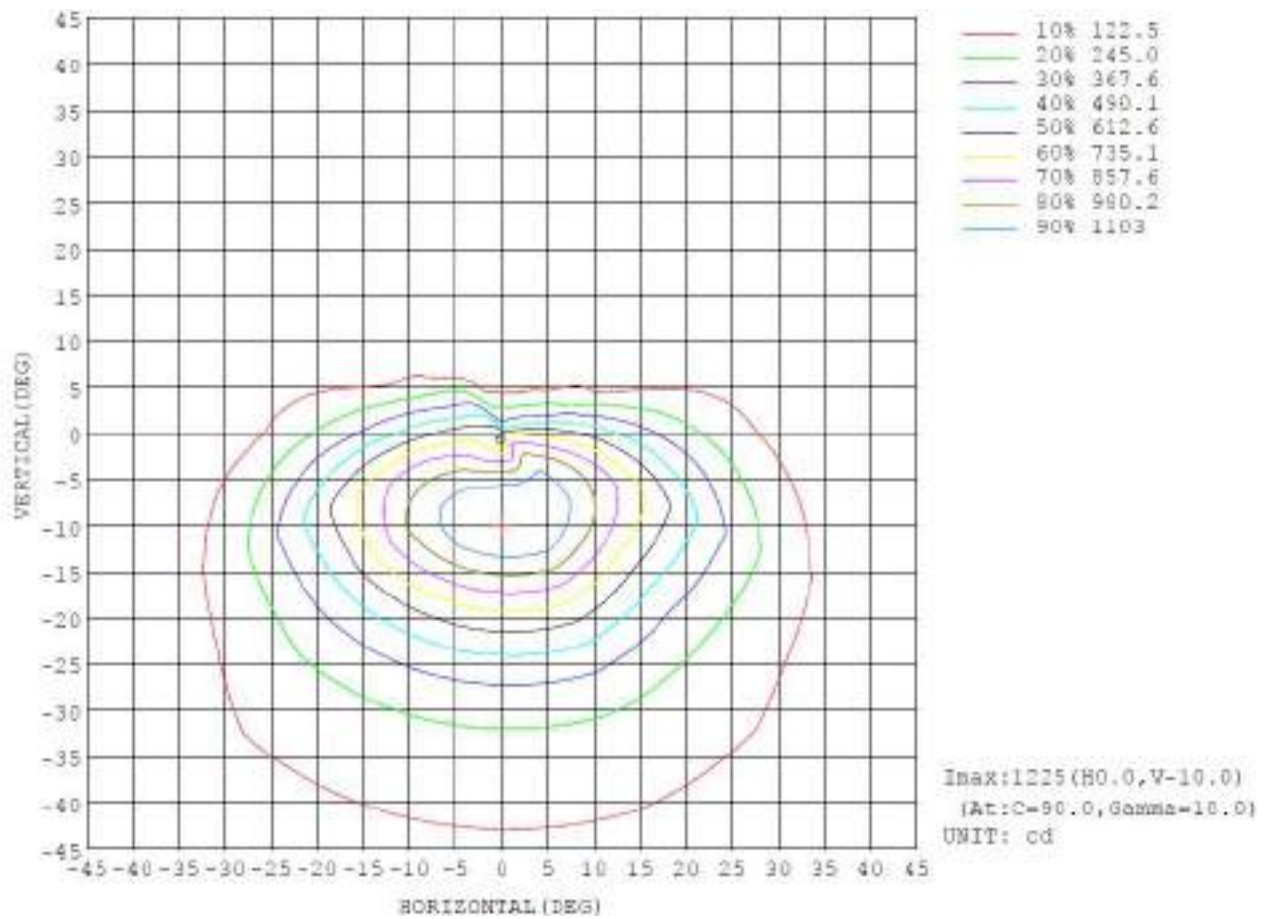
Luminous Flux (lm)	Efficacy(lm/W)	Imax (cd)	S/MH(C0/180)	S/MH(C90/270)
552.19	43.58	1514	0.51	0.09

12.2 Luminous Intensity Distribution



12.3 Zonal Flux Diagram

T	C0	C45	C90	C135	C180	C225	C270	C315	T	Sum	Total	Wlum,lm
10	469.9	921.9	1624	1211	442.9	98.60	4.208	20.34	0- 10	57.97	57.97	19.5,19.5
20	232.5	522.1	853.7	761.0	287.4	3.919	1.308	4.772	10- 20	126.6	184.6	30.4,30.4
30	71.91	219.2	356.7	324.5	48.10	1.510	0.6017	1.455	20- 30	57.83	242.4	51.2,51.2
40	19.05	109.7	174.1	154.0	15.30	0.4529	0	0.8956	30- 40	19.29	261.7	60.8,60.8
50	10.66	66.67	114.6	91.16	10.58	0.3489	0	0.4782	40- 50	13.32	275.0	66.8,66.8
60	9.853	55.51	85.87	70.90	9.642	0.2729	0	0.5369	50- 60	17.14	292.1	71.7,71.7
70	7.262	43.37	75.44	58.90	7.341	0.3219	0	0.6179	60- 70	24.93	317.0	78.2,78.2
80	4.357	38.51	63.57	46.32	4.386	0.3527	0	0.6563	70- 80	21.79	338.7	88.2,88.2
90	1.262	35.35	65.88	44.88	1.104	0.3620	0	0.6615	80- 90	19.82	358.5	97.8,97.8
100	0	35.24	74.12	47.39	0	0.3559	0	0.6268	90-100	20.21	378.7	97.4,97.4
110	0	34.37	80.84	46.94	0	0.3252	0	0.5491	100-110	14.84	393.6	91.84
120	0	30.79	84.85	42.82	0	0.2787	0	0.4493	110-120	18.20	411.8	94.8,94.8
130	0	25.47	77.40	34.33	0.0800	0.2102	0.0003	0.4129	120-130	18.13	430.0	91.87
140	0.0971	11.23	65.80	19.74	0.0672	0.0247	0.3538	0.5053	130-140	18.45	448.5	88.89
150	0.1179	1.193	27.88	2.976	0.2989	0.4225	0.4661	0.9314	140-150	4.784	453.3	99.8,99.8
160	0.1674	0.4371	0.6870	0.6962	0.3925	0.3910	0.5099	0.4069	150-160	0.7492	454.1	100,100
170	0.2041	0.1217	0.2479	0.1572	0.3919	0.3023	0.2224	0.1129	160-170	0.0916	454.2	100,100
180	0.2969	0.1616	0.1369	0.0590	0.2919	0.2327	0.1800	0.0708	170-180	0.0192	454.2	100,100
DEC	LUMINOUS INTENSITY:cd									UNIT:lm		

12.4 Isocandela Diagram

12.5 Luminous Distribution Intensity Data

Table--1

UNIT: cd

C (DEG) S (DEG)	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5			
0	606	606	606	606	606	606	606	606	606	606	606	606	606	606	606	606			
5	570	762	900	1248	1313	1249	1061	833	553	387	262	123	100	119	221	374			
10	470	774	922	1434	1514	1426	1211	903	443	282	98.6	6.59	6.21	6.61	28.3	173			
15	345	865	755	1216	1237	1193	1063	805	318	64.3	5.04	4.64	4.30	4.54	6.01	42.0			
20	232	504	522	846	854	818	761	629	207	14.1	3.82	2.69	1.31	2.62	4.77	9.63			
25	142	346	340	555	553	532	499	432	116	5.98	3.17	0.56	0.24	0.56	3.44	6.88			
30	71.6	217	219	356	357	347	325	248	68.1	5.19	1.52	0.34	0.08	0.35	1.46	5.93			
35	32.1	122	149	238	242	234	217	128	25.1	4.50	0.91	0.12	0.00	0.14	1.36	5.26			
40	18.1	69.9	109	169	174	167	154	12.7	15.3	3.93	0.65	0.00	0.00	0.00	0.94	4.41			
45	11.9	44.4	83.5	132	137	132	115	49.0	11.6	2.92	0.41	0.00	0.00	0.00	0.56	3.15			
50	10.7	31.3	68.7	112	115	112	91.2	35.6	10.6	2.12	0.25	0.00	0.00	0.01	0.47	2.69			
55	10.2	25.4	59.7	98.8	102	99.6	79.1	29.8	10.2	1.61	0.25	0.00	0.00	0.03	0.58	1.86			
60	9.65	23.2	53.5	90.8	93.9	91.0	70.8	28.2	9.64	1.09	0.27	0.00	0.00	0.05	0.54	1.30			
65	8.61	22.8	48.5	82.1	84.7	82.5	64.8	27.7	8.65	0.63	0.30	0.00	0.00	0.06	0.58	1.07			
70	7.28	22.6	43.4	73.5	75.4	73.8	58.4	27.7	7.34	0.67	0.32	0.00	0.00	0.07	0.62	1.13			
75	5.91	22.0	37.8	65.7	67.3	65.9	51.8	27.3	5.83	0.74	0.34	0.00	0.00	0.08	0.64	1.14			
80	4.36	20.9	33.9	61.8	63.6	61.8	46.2	26.5	4.29	0.72	0.35	0.00	0.00	0.08	0.66	1.13			
85	2.78	19.7	32.6	59.6	63.6	60.2	43.6	24.9	2.65	0.73	0.36	0.00	0.00	0.08	0.66	1.10			
90	1.26	18.8	33.3	61.7	65.9	62.4	44.7	23.9	1.10	0.72	0.36	0.00	0.00	0.07	0.66	1.11			
95	0.47	17.8	34.6	64.4	69.0	65.1	46.3	22.8	0.52	0.72	0.36	0.00	0.00	0.07	0.65	1.12			
100	0.00	15.8	35.3	67.5	74.1	68.2	47.4	20.8	0.00	0.74	0.36	0.00	0.00	0.06	0.63	1.10			
105	0.00	12.8	35.2	69.9	77.0	70.5	47.7	17.6	0.00	0.71	0.34	0.00	0.00	0.04	0.59	1.05			
110	0.00	10.6	34.4	71.9	80.0	72.5	46.8	14.0	0.00	0.68	0.33	0.00	0.00	0.02	0.55	0.99			
115	0.00	8.61	32.9	72.8	83.2	73.2	45.1	11.7	0.00	0.63	0.30	0.00	0.00	0.00	0.50	0.90			
120	0.00	6.65	30.8	72.7	84.6	73.0	42.5	9.17	0.00	0.58	0.28	0.00	0.00	0.00	0.45	0.81			
125	0.00	4.55	28.8	71.8	84.7	71.3	40.1	6.59	0.00	0.51	0.26	0.00	0.00	0.00	0.41	0.69			
130	0.00	2.67	25.5	68.6	77.4	66.8	36.3	3.99	0.00	0.43	0.21	0.03	0.00	0.06	0.41	0.60			
135	0.00	1.67	19.3	62.3	74.9	63.0	29.8	2.66	0.03	0.33	0.19	0.18	0.14	0.17	0.45	0.52			
140	0.04	1.14	11.2	53.2	65.8	53.9	19.8	1.87	0.09	0.36	0.23	0.36	0.35	0.34	0.51	0.50			
145	0.09	0.79	3.68	36.4	49.2	37.1	8.64	1.30	0.17	0.33	0.35	0.52	0.55	0.50	0.54	0.49			
150	0.12	0.06	1.13	17.3	27.9	18.1	2.97	0.87	0.26	0.31	0.42	0.61	0.65	0.60	0.53	0.47			
155	0.14	0.42	0.66	3.52	6.48	3.79	1.08	0.60	0.34	0.33	0.42	0.59	0.62	0.59	0.49	0.44			
160	0.17	0.22	0.44	0.66	0.67	0.65	0.69	0.41	0.29	0.37	0.39	0.51	0.51	0.48	0.41	0.35			
165	0.19	0.24	0.30	0.41	0.30	0.34	0.37	0.21	0.40	0.38	0.34	0.40	0.35	0.30	0.25	0.22			
170	0.20	0.21	0.22	0.31	0.25	0.20	0.16	0.12	0.38	0.38	0.30	0.31	0.22	0.15	0.11	0.13			
175	0.23	0.20	0.16	0.24	0.19	0.13	0.09	0.07	0.34	0.34	0.26	0.25	0.16	0.08	0.04	0.05			
180	0.30	0.24	0.16	0.18	0.14	0.08	0.06	0.08	0.29	0.29	0.23	0.24	0.18	0.13	0.07	0.05			

13.Photo of sample

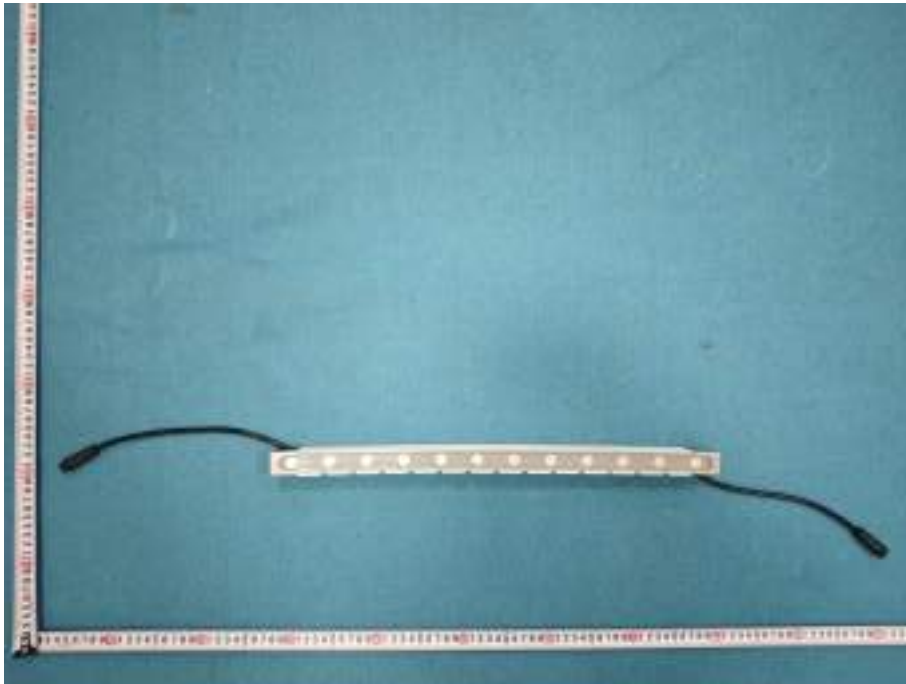


Figure 1 Overview of LVFK40-0500W-L27-35-O-24-G(Vivoxy FLEX rail)

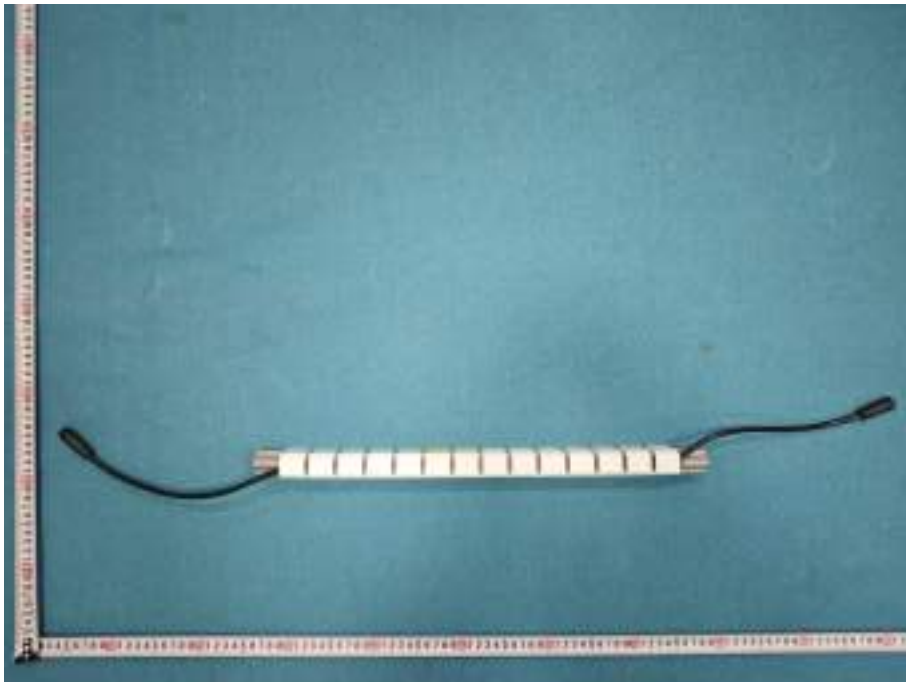


Figure 2 Overview of LVFK40-0500W-L27-35-O-24-G(Vivoxy FLEX rail)

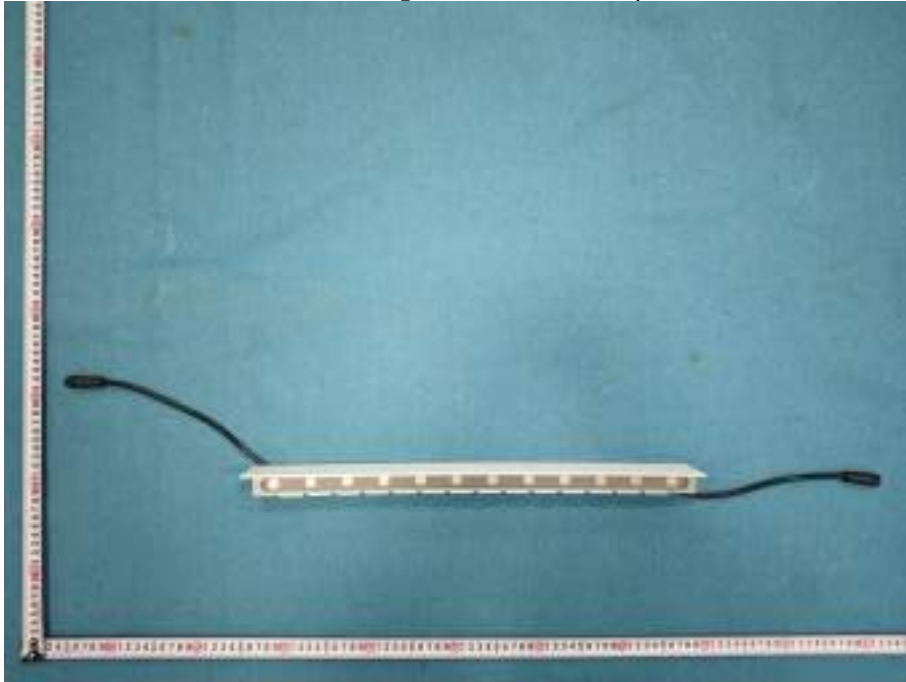


Figure 3 Overview of LVFK40-0500W-L27-35-O-24-G(Vivoxy FLEX rail+shield)

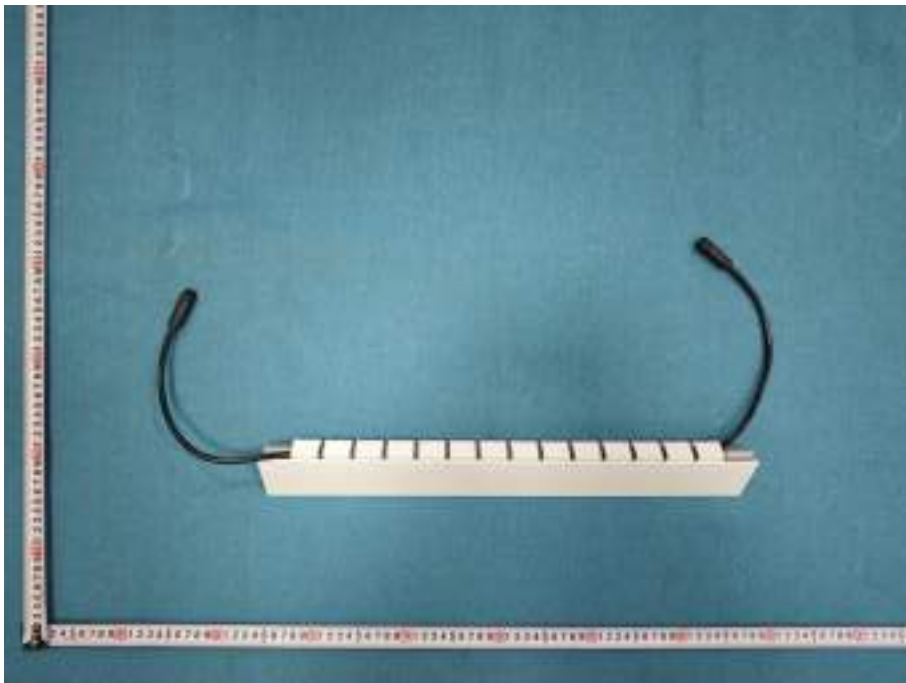


Figure 4 Overview of LVFK40-0500W-L27-35-O-24-G(Vivoxy FLEX rail+shield)

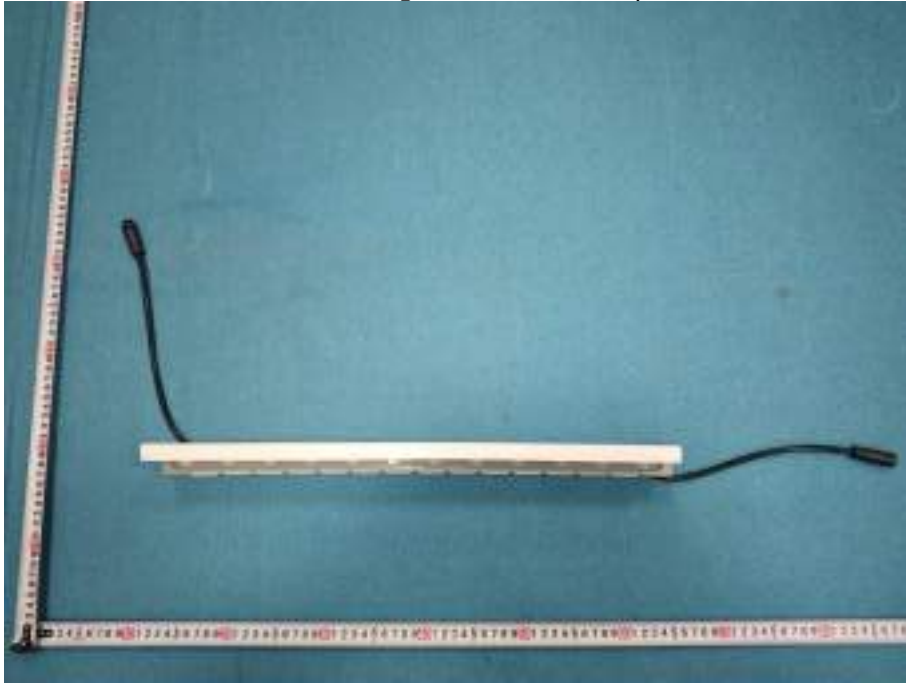


Figure 5 Overview of LVFK40-0500W-L27-35-O-24-G(Vivoxy FLEX rail+shield+louver)

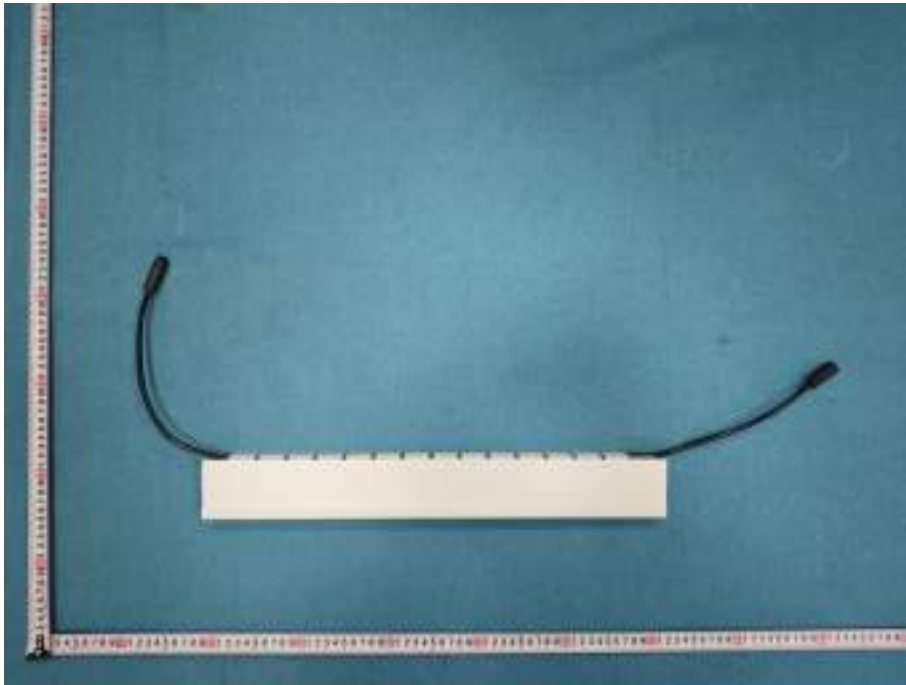


Figure 6 Overview of LVFK40-0500W-L27-35-O-24-G(Vivoxy FLEX rail+shield+louver)



Figure 7 Overview of LVFK40-0500W-L27-35-O-24-G(Vivoxy FLEX rail+shield+louver+return)

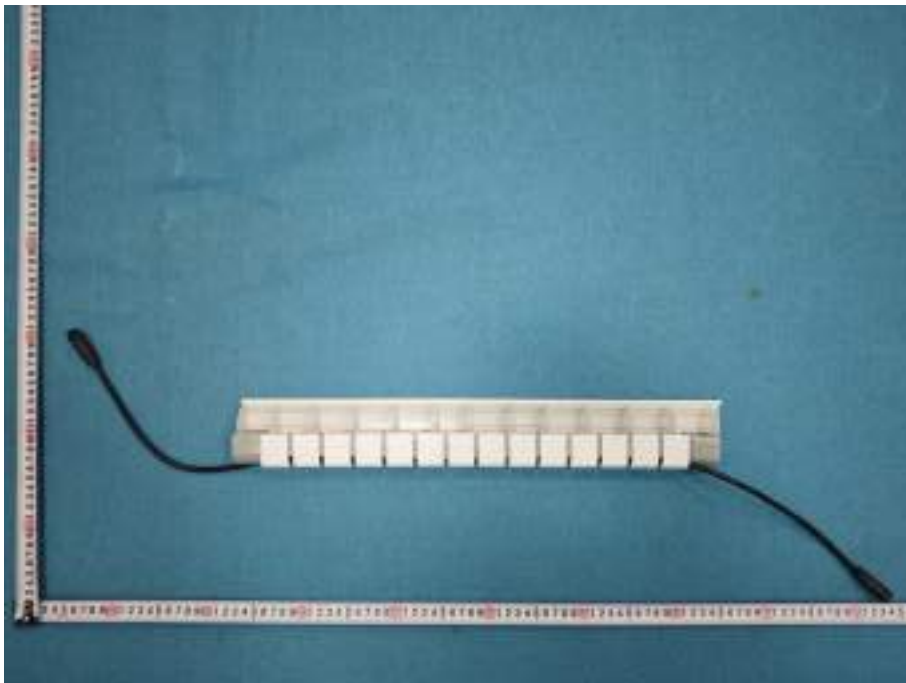


Figure 8 Overview of LVFK40-0500W-L27-35-O-24-G(Vivoxy FLEX rail+shield+louver+return)

---End of Report---



Test Report Of ANSI/IES LM-79-19

APPROVED METHOD FOR OPTICAL AND ELECTRICAL MEASUREMENTS OF SOLID-STATE LIGHTING PRODUCTS

Report Number..... : N01A24121657L00901

Client..... : Luci Pte. Ltd.

Address..... : 13A Bukit Pasoh Road Singapore 089827

Test Model..... : LVFK40-0500W-L27-50-O-24-G(Vivoxo FLEX rail),
LVFK40-0500W-L27-50-O-24-G(Vivoxo FLEX rail+shield),
LVFK40-0500W-L27-50-O-24-G(Vivoxo FLEX rail+shield+louver),
LVFK40-0500W-L27-50-O-24-G(Vivoxo FLEX rail+shield+louver+return)

Brand Name..... : N/A

Testing Laboratory... : Guangdong GTG Testing Technology Co., Ltd.

Address..... : 1st floor, B Area, Jinbaisheng Industrial Park, Headquarters 2 Road, Songshan
Lake Hi-tech Industrial Development Zone, Dongguan City, Guangdong Pr., China.

Testing Location..... : As above

Date of receipt..... : Mar. 11, 2025

Date of test : Mar. 13, 2025 - Mar. 19, 2025

Date of report..... : Apr. 14, 2025

Tested by:

Sujay Zhou/ Test Engineer

Checked by:

Sandy Chen/ Project Engineer

Approved by:



Jessie Li/ Technical Manager

Note 1: The test data was only valid for the test sample(s). This test report is prepared for the customer shown above and for the device described herein. It may not be duplicated or use in part without prior written consent from Guangdong GTG Testing Technology Co., Ltd. This report must not be used by the customer to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

Note 2: This report does not imply product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

Note 3: This report contains data that are not covered by the NVLAP accreditation. It is marked * in the title.

1. Product Description for Equipment under Test (EUT)

Representative (Tested) Model:	LVFK40-0500W-L27-50-O-24-G(Vivoxy FLEX rail), LVFK40-0500W-L27-50-O-24-G(Vivoxy FLEX rail+shield), LVFK40-0500W-L27-50-O-24-G(Vivoxy FLEX rail+shield+louver), LVFK40-0500W-L27-50-O-24-G(Vivoxy FLEX rail+shield+louver+return)
Manufacturer:	Guangdong Lumenhub Technology Co.Ltd
Product Type:	Vivoxy FLEX rail, Vivoxy FLEX rail+shield, Vivoxy FLEX rail+shield+louver, Vivoxy FLEX rail+shield+louver+return
Rated Voltage/Frequency:	DC24V
Rated Power:	12W
Rated luminous flux:	/
Nominal CCT:	2700K

2. Standards Used

- ANSI/IES LM-79-19:APPROVED METHOD:OPTICAL AND ELECTRICAL MEASUREMENTS OF SOLID-STATE LIGHTING PRODUCTS
- IES TM-30-18 IES Method for Evaluating Light Source Color Rendition (This Method is not in Nvlap accreditation scope)

3. Test equipment list

Test Equipment	Serial No.	Model No.	Calibration due date
Full-field Speed Goniophotometer	01-L-182	GO-R5000	2026/03/11
Digital Power Meter	01-L-161	PF2010	2026/03/11
AC Testing Power Source	01-L-162	DPS1060	2026/03/11
Total Spectral Radiant Flux Standard Lamp	01-L-165	D908S	2025/03/19
Integrating Sphere System	01-L-183	2M	2026/03/11
High Accuracy Array Spectroradio Meter	01-L-169	HAAS-3000	2026/03/11
Digital Power Meter	01-L-166	PF310	2026/03/11
AC Testing Power Source	01-L-168	DPS1010	2026/03/11
Standard Lamp	01-L-190	D204	2025/03/19

Statement of Traceability: Guangdong GTG Testing Technology Co., Ltd. attested that all calibration has been performed using suitable standards traceable to national primary standards and International System of Unit(SI).

4. Test Method

Requirements of Ambient Condition

Product was tested with no seasoning. All stabilization and measurements were made in compliance with ANSI/IES LM-79-19. The product was operated at rated voltage or at voltage required by manufacturer. The ambient temperature of the sample was maintained at $25^{\circ}\text{C} \pm 1.2^{\circ}\text{C}$ during measurement. And relative humidity between 10% and 65%.

Goniophotometer System

The sample was tested according to the ANSI/IES LM-79-19.

Photometric parameters were measured using a type C goniophotometer and software. The samples were operated at rated voltage and was stabilized before measurement. Luminous flux, Luminous efficacy, zonal flux were calculated from the software taken at 1° vertical intervals and 22.5° horizontal intervals. Photometric distance was more than five times of the Largest dimension of the test SSL product.

Integrating Sphere System

The sample was tested according to the ANSI/IES LM-79-19.

The sample measurements were made using a spectroradiometer connected by a fiber optic cable and detector through the detector port of the integrating sphere. Coating reflectance of the integrating sphere was 90% to 98%. Photometric measurement conditions was using 4π geometry. The self-absorption factor is applied in the final test result. The sample was operated at rated voltage and was stabilized before measurement. Chromaticity coordinates, correlated color temperature and color rendering index were calculated from the spectral radiant flux measurements taken at 1 nm intervals over the range of 380 to 780 nm.

Fidelity Index (R_f) and Gamut Index (R_g) Calculation

The R_f , R_g was calculated according to IES TM-30-18 by using calculation tools. The calculation was based on the measured SPD from 380nm to 780nm with 1nm intervals. All the colors in this report is for reference only.

5. Integrating Sphere Test Results for LVFK40-0500W-L27-50-O-24-G(Vivoxy FLEX rail)

5.1 Test Data

Test Ambient Temperature (Integrating sphere internal temperature)	25.0°C	Test orientation	Downward
Operate time(Min.)	30	stabilization time(Min.)	0

Optical and Electrical Measurement Result

Number	Time	Current (A)	Voltage (V)	Power (W)	Flux(lm)	x	y	u'	v'	CCT (K)	Ra
0	00h00m00s	0.5275	24	12.66	897.36	0.4681	0.4081	0.269	0.5276	2570	93.4
1	00h00m10s	0.5281	24	12.6744	897.36	0.4681	0.408	0.269	0.5276	2570	93.4
2	00h00m20s	0.5285	24	12.684	896.74	0.468	0.4079	0.269	0.5276	2570	93.3
3	00h00m30s	0.5288	24	12.6912	895.95	0.468	0.4079	0.269	0.5275	2569	93.4
4	00h00m40s	0.5291	24	12.6984	895.36	0.468	0.4078	0.269	0.5275	2569	93.3
5	00h00m50s	0.5293	24	12.7032	894.95	0.4681	0.4079	0.2691	0.5275	2568	93.3
6	00h01m00s	0.5295	24	12.708	895.01	0.468	0.4078	0.269	0.5275	2569	93.3
7	00h01m10s	0.5297	24	12.7128	894.17	0.468	0.4077	0.2691	0.5275	2568	93.3
8	00h01m20s	0.5299	24	12.7176	893.92	0.468	0.4077	0.2691	0.5275	2568	93.3
9	00h01m30s	0.5301	24	12.7224	893.56	0.468	0.4077	0.2691	0.5275	2568	93.3
10	00h01m40s	0.5303	24	12.7272	893.16	0.4679	0.4077	0.2691	0.5275	2569	93.3
11	00h01m50s	0.5304	24	12.7296	893.1	0.4679	0.4077	0.269	0.5275	2569	93.2
12	00h02m00s	0.5306	24	12.7344	892.72	0.4679	0.4077	0.269	0.5274	2569	93.3
13	00h02m10s	0.5307	24	12.7368	892.41	0.4679	0.4076	0.2691	0.5274	2568	93.3
14	00h02m20s	0.5309	24	12.7416	891.49	0.4679	0.4076	0.2691	0.5274	2568	93.3
15	00h02m30s	0.531	24	12.744	891.52	0.4678	0.4074	0.2691	0.5273	2568	93.2
16	00h02m40s	0.5311	24	12.7464	891.25	0.468	0.4076	0.2691	0.5274	2568	93.2
17	00h02m50s	0.5313	24	12.7512	891.07	0.4679	0.4075	0.2692	0.5274	2567	93.2
18	00h03m00s	0.5314	24	12.7536	891.06	0.4679	0.4075	0.2691	0.5274	2569	93.2
19	00h03m10s	0.5315	24	12.756	890.01	0.4679	0.4074	0.2692	0.5274	2567	93.2
20	00h03m20s	0.5316	24	12.7584	890.09	0.4678	0.4074	0.2691	0.5273	2569	93.2
21	00h03m30s	0.5317	24	12.7608	889.91	0.4678	0.4074	0.2691	0.5273	2568	93.2
22	00h03m40s	0.5318	24	12.7632	889.47	0.4679	0.4074	0.2691	0.5273	2568	93.2
23	00h03m50s	0.5319	24	12.7656	889.3	0.4678	0.4073	0.2692	0.5273	2567	93.2
24	00h04m00s	0.532	24	12.768	888.71	0.468	0.4073	0.2693	0.5273	2565	93.2

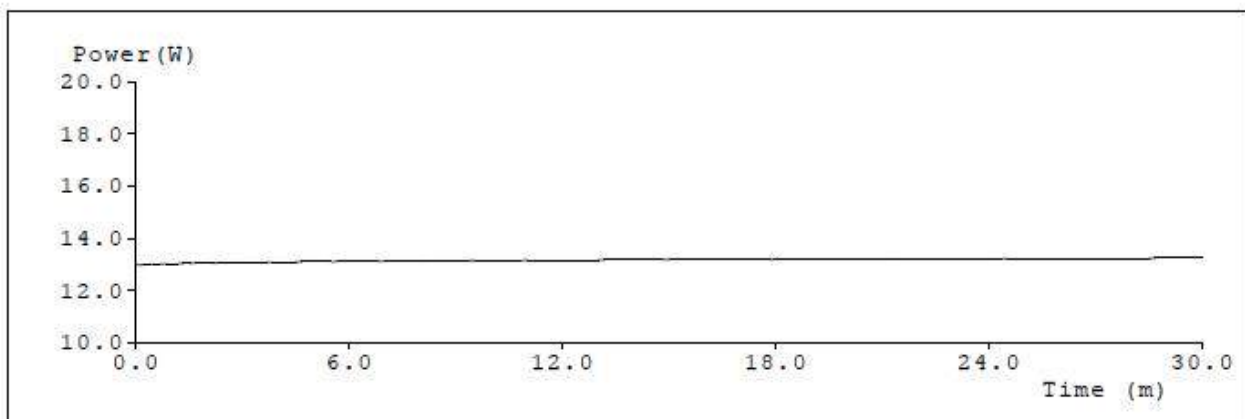
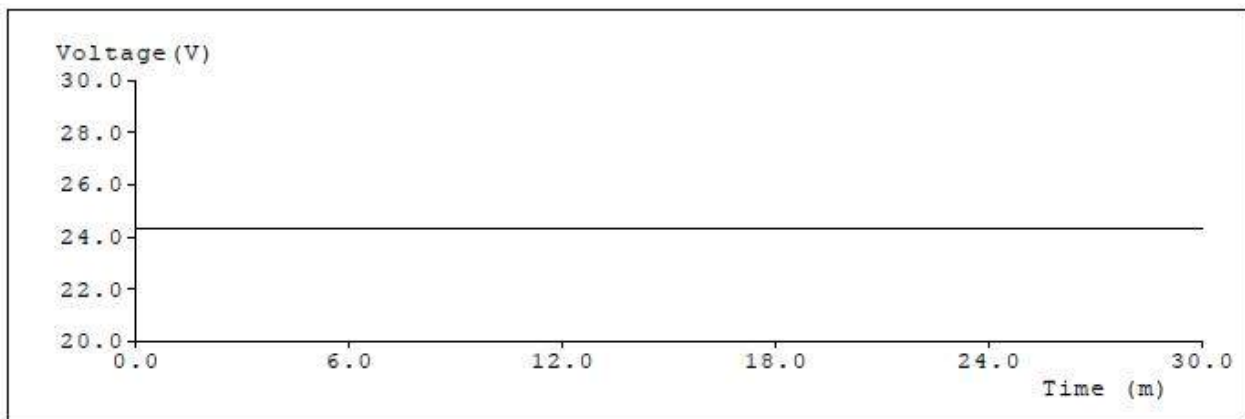
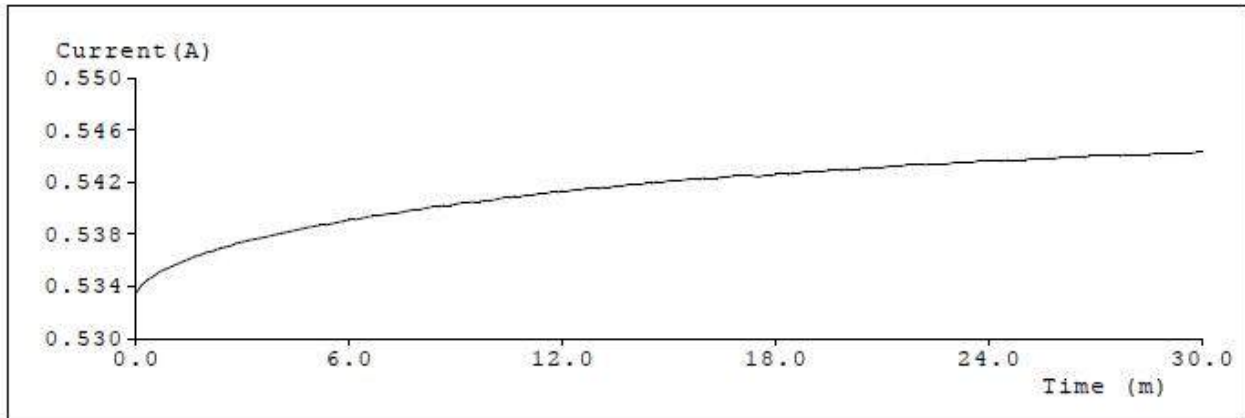
25	00h04m10s	0.5321	24	12.7704	888.86	0.4679	0.4073	0.2692	0.5273	2567	93.2
26	00h04m20s	0.5322	24	12.7728	888.37	0.4679	0.4073	0.2692	0.5273	2566	93.2
27	00h04m30s	0.5323	24	12.7752	888.18	0.468	0.4074	0.2692	0.5274	2566	93.2
28	00h04m40s	0.5324	24	12.7776	887.88	0.468	0.4073	0.2693	0.5273	2565	93.2
29	00h04m50s	0.5325	24	12.78	887.9	0.468	0.4072	0.2693	0.5273	2565	93.2
30	00h05m00s	0.5326	24	12.7824	887.55	0.4679	0.4073	0.2692	0.5273	2566	93.2
31	00h05m10s	0.5327	24	12.7848	886.97	0.468	0.4073	0.2693	0.5273	2566	93.2
32	00h05m20s	0.5327	24	12.7848	887.06	0.4678	0.4072	0.2692	0.5272	2567	93.2
33	00h05m30s	0.5328	24	12.7872	886.57	0.4678	0.4072	0.2692	0.5272	2566	93.2
34	00h05m40s	0.5329	24	12.7896	886.16	0.4679	0.4071	0.2693	0.5272	2565	93.1
35	00h05m50s	0.533	24	12.792	885.74	0.4679	0.4071	0.2693	0.5272	2565	93.1
36	00h06m00s	0.5331	24	12.7944	886.04	0.468	0.4072	0.2693	0.5273	2565	93.1
37	00h06m10s	0.5331	24	12.7944	885.96	0.4679	0.4073	0.2693	0.5273	2566	93.1
38	00h06m20s	0.5332	24	12.7968	885.38	0.4679	0.4072	0.2693	0.5273	2566	93.1
39	00h06m30s	0.5333	24	12.7992	885.35	0.468	0.4072	0.2693	0.5273	2564	93.1
40	00h06m40s	0.5334	24	12.8016	885.43	0.4679	0.4072	0.2693	0.5273	2565	93.2
41	00h06m50s	0.5334	24	12.8016	884.93	0.4679	0.4071	0.2693	0.5272	2566	93.1
42	00h07m00s	0.5335	24	12.804	884.2	0.4678	0.407	0.2693	0.5272	2565	93.1
43	00h07m10s	0.5336	24	12.8064	884.46	0.4679	0.4072	0.2693	0.5273	2565	93.1
44	00h07m20s	0.5336	24	12.8064	884.2	0.468	0.407	0.2694	0.5272	2563	93.1
45	00h07m30s	0.5337	24	12.8088	883.8	0.4679	0.407	0.2694	0.5272	2564	93.1
46	00h07m40s	0.5338	24	12.8112	883.81	0.4679	0.4071	0.2693	0.5272	2565	93.1
47	00h07m50s	0.5339	24	12.8136	883.54	0.4679	0.4071	0.2693	0.5272	2565	93.1
48	00h08m00s	0.5339	24	12.8136	883.77	0.4679	0.407	0.2694	0.5272	2564	93.1
49	00h08m10s	0.534	24	12.816	883.15	0.4678	0.407	0.2693	0.5272	2566	93.1
50	00h08m20s	0.5341	24	12.8184	883.46	0.4679	0.4071	0.2694	0.5272	2564	93.1
51	00h08m30s	0.5341	24	12.8184	882.49	0.468	0.407	0.2694	0.5272	2563	93.1
52	00h08m40s	0.5342	24	12.8208	882.52	0.4678	0.4069	0.2694	0.5271	2564	93.1
53	00h08m50s	0.5342	24	12.8208	882.6	0.468	0.407	0.2694	0.5272	2563	93.1
54	00h09m00s	0.5343	24	12.8232	882.36	0.468	0.407	0.2694	0.5272	2563	93
55	00h09m10s	0.5344	24	12.8256	881.61	0.4679	0.4069	0.2694	0.5271	2564	93.1
56	00h09m20s	0.5344	24	12.8256	881.92	0.4678	0.4068	0.2694	0.5271	2564	93
57	00h09m30s	0.5345	24	12.828	881.63	0.4679	0.4069	0.2694	0.5272	2563	93.1

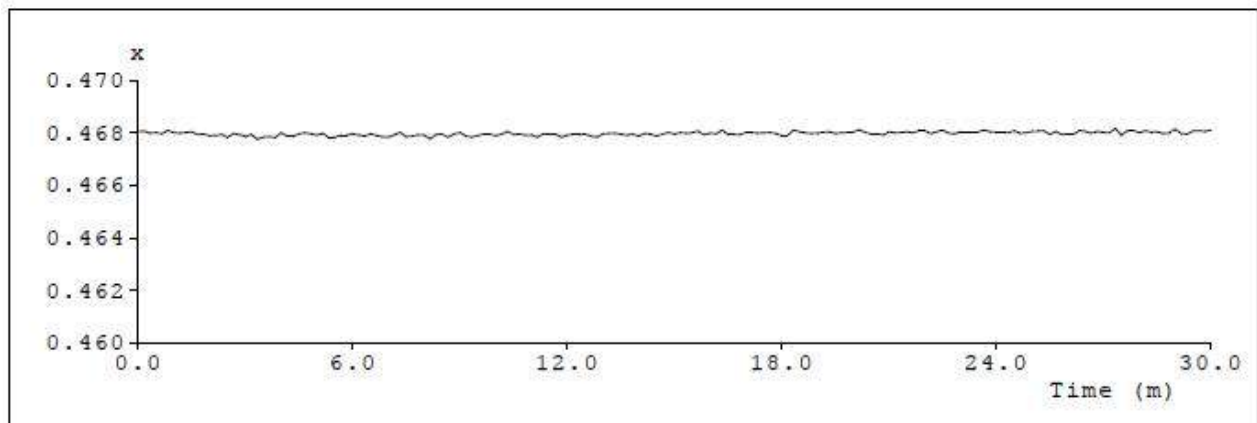
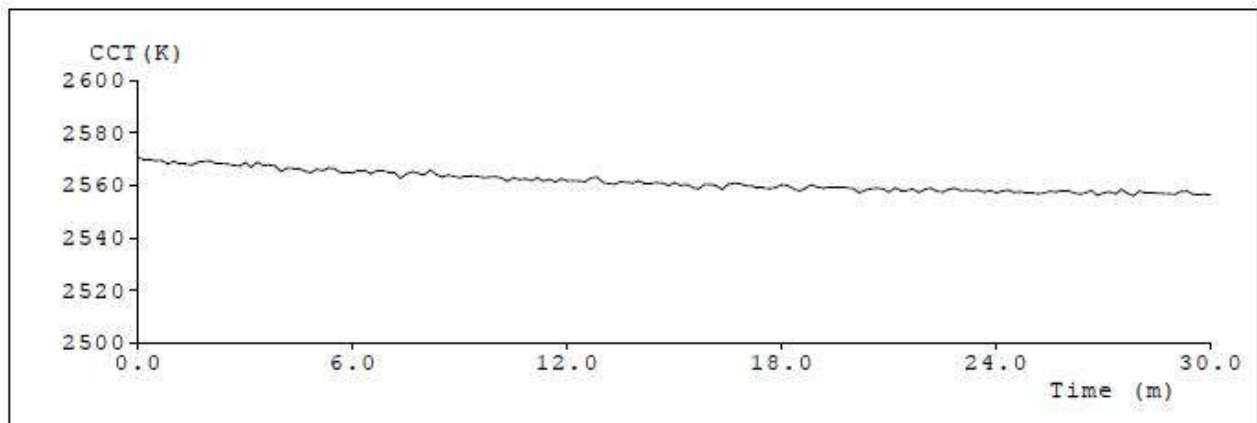
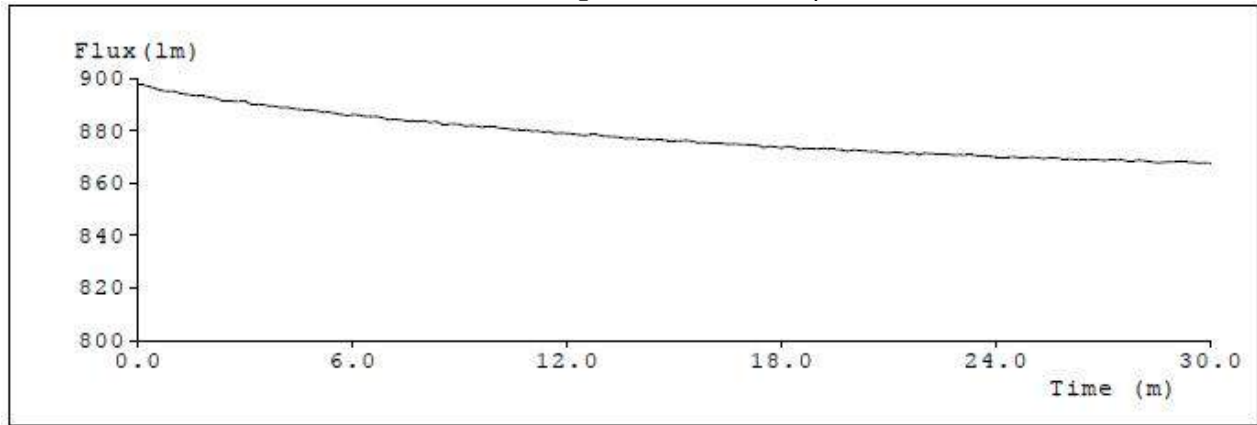
58	00h09m40s	0.5345	24	12.828	881.14	0.4679	0.4069	0.2694	0.5272	2563	93.1
59	00h09m50s	0.5346	24	12.8304	881.19	0.468	0.407	0.2694	0.5272	2563	93
60	00h10m00s	0.5346	24	12.8304	881.17	0.4679	0.4069	0.2694	0.5271	2563	93
61	00h10m10s	0.5347	24	12.8328	880.95	0.468	0.4069	0.2694	0.5272	2563	93
62	00h10m20s	0.5348	24	12.8352	880.64	0.4681	0.407	0.2695	0.5272	2562	93
63	00h10m30s	0.5348	24	12.8352	880.35	0.4679	0.4069	0.2694	0.5272	2563	93.1
64	00h10m40s	0.5349	24	12.8376	880.46	0.4679	0.4068	0.2695	0.5271	2562	93
65	00h10m50s	0.5349	24	12.8376	880.46	0.4679	0.4068	0.2695	0.5271	2562	93.1
66	00h11m00s	0.535	24	12.84	879.75	0.4679	0.4067	0.2695	0.5271	2562	93
67	00h11m10s	0.535	24	12.84	879.93	0.4678	0.4068	0.2694	0.5271	2563	93
68	00h11m20s	0.5351	24	12.8424	879.43	0.468	0.4068	0.2695	0.5271	2562	93
69	00h11m30s	0.5351	24	12.8424	879.65	0.468	0.4069	0.2695	0.5271	2562	93
70	00h11m40s	0.5352	24	12.8448	878.91	0.468	0.4067	0.2695	0.5271	2561	93
71	00h11m50s	0.5352	24	12.8448	879.14	0.4678	0.4067	0.2695	0.5271	2563	93
72	00h12m00s	0.5353	24	12.8472	878.84	0.4679	0.4067	0.2695	0.5271	2562	93
73	00h12m10s	0.5353	24	12.8472	878.82	0.4679	0.4068	0.2695	0.5271	2562	93
74	00h12m20s	0.5354	24	12.8496	878.33	0.4679	0.4068	0.2695	0.5271	2562	93
75	00h12m30s	0.5354	24	12.8496	878.12	0.468	0.4068	0.2695	0.5271	2561	93
76	00h12m40s	0.5355	24	12.852	878.45	0.4679	0.4068	0.2694	0.5271	2563	93
77	00h12m50s	0.5355	24	12.852	878.49	0.4678	0.4068	0.2694	0.5271	2563	93
78	00h13m00s	0.5355	24	12.852	877.89	0.468	0.4067	0.2695	0.5271	2561	93
79	00h13m10s	0.5356	24	12.8544	877.67	0.468	0.4067	0.2696	0.5271	2561	93
80	00h13m20s	0.5356	24	12.8544	877.56	0.468	0.4067	0.2696	0.5271	2560	93
81	00h13m30s	0.5357	24	12.8568	877.41	0.468	0.4067	0.2695	0.5271	2561	93
82	00h13m40s	0.5357	24	12.8568	876.96	0.4679	0.4066	0.2695	0.5271	2561	93
83	00h13m50s	0.5358	24	12.8592	877.14	0.4679	0.4067	0.2695	0.5271	2561	93
84	00h14m00s	0.5358	24	12.8592	876.8	0.4679	0.4067	0.2695	0.5271	2562	93
85	00h14m10s	0.5358	24	12.8592	876.83	0.468	0.4067	0.2695	0.5271	2561	92.9
86	00h14m20s	0.5359	24	12.8616	876.62	0.468	0.4067	0.2696	0.5271	2561	93
87	00h14m30s	0.5359	24	12.8616	876.3	0.4679	0.4066	0.2696	0.527	2561	93
88	00h14m40s	0.536	24	12.864	876.28	0.4679	0.4067	0.2695	0.5271	2561	93
89	00h14m50s	0.536	24	12.864	876.2	0.468	0.4067	0.2696	0.5271	2560	93
90	00h15m00s	0.5361	24	12.8664	876.2	0.468	0.4067	0.2695	0.5271	2561	93

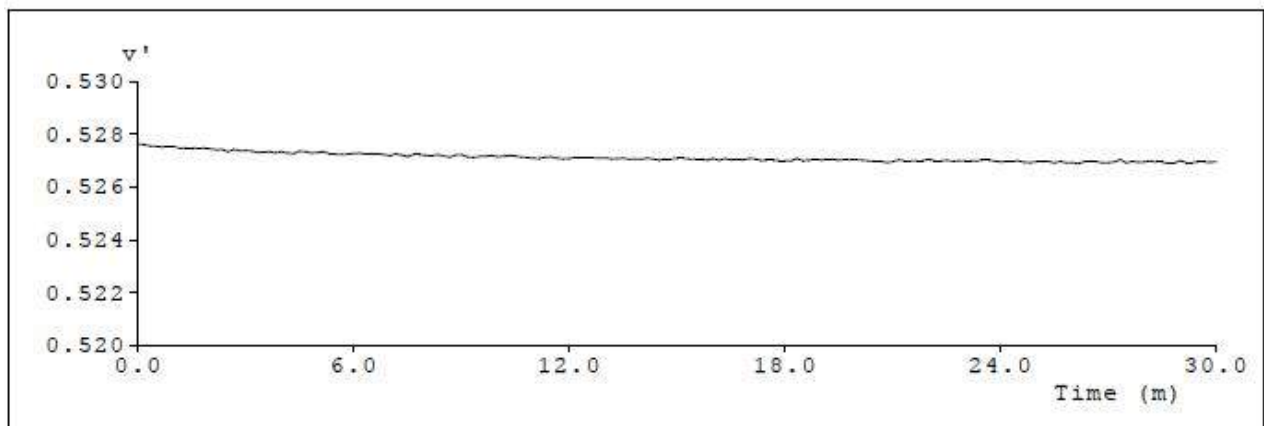
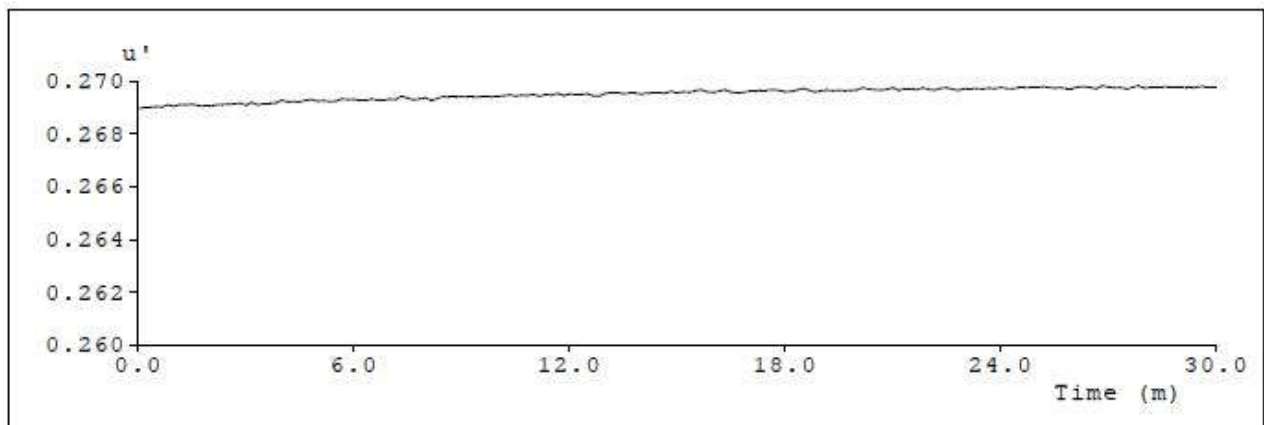
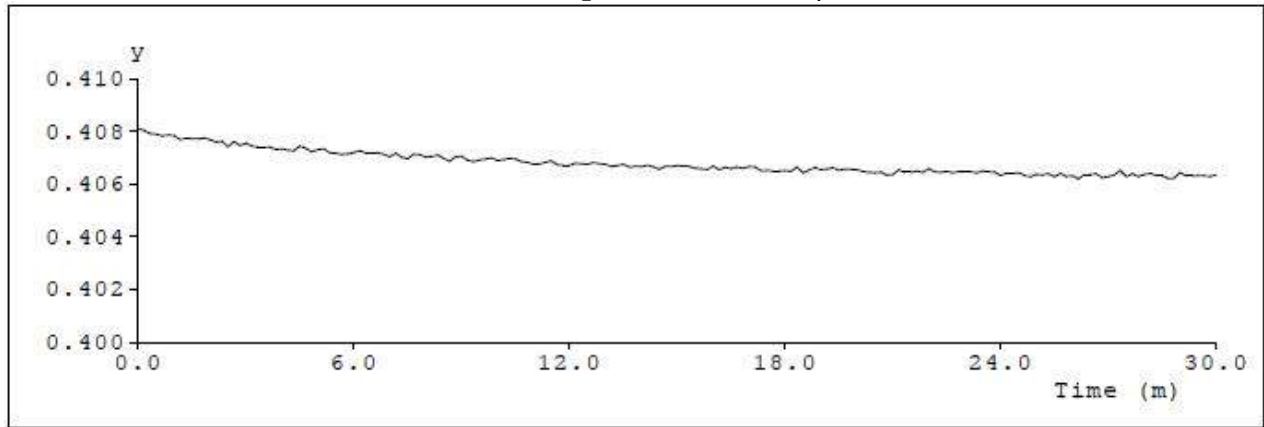
91	00h15m10s	0.5361	24	12.8664	876.07	0.468	0.4067	0.2696	0.5271	2560	93
92	00h15m20s	0.5361	24	12.8664	876.26	0.468	0.4067	0.2696	0.5271	2560	93
93	00h15m30s	0.5362	24	12.8688	875.96	0.468	0.4066	0.2696	0.5271	2559	92.9
94	00h15m40s	0.5362	24	12.8688	875.27	0.4681	0.4066	0.2697	0.527	2559	93
95	00h15m50s	0.5362	24	12.8688	875.42	0.4679	0.4065	0.2696	0.527	2560	93
96	00h16m00s	0.5363	24	12.8712	875.27	0.468	0.4067	0.2696	0.5271	2560	93
97	00h16m10s	0.5363	24	12.8712	875.26	0.468	0.4065	0.2696	0.527	2560	92.9
98	00h16m20s	0.5363	24	12.8712	875.18	0.4681	0.4066	0.2697	0.5271	2558	92.9
99	00h16m30s	0.5364	24	12.8736	874.81	0.4679	0.4066	0.2696	0.527	2560	93
100	00h16m40s	0.5364	24	12.8736	874.94	0.4679	0.4066	0.2696	0.5271	2561	93
101	00h16m50s	0.5365	24	12.876	874.82	0.4679	0.4066	0.2696	0.527	2561	93
102	00h17m00s	0.5365	24	12.876	874.61	0.468	0.4067	0.2696	0.5271	2560	92.9
103	00h17m10s	0.5365	24	12.876	874.5	0.468	0.4066	0.2696	0.5271	2560	93
104	00h17m20s	0.5365	24	12.876	874.38	0.468	0.4065	0.2697	0.527	2559	92.9
105	00h17m30s	0.5364	24	12.8736	873.54	0.468	0.4065	0.2697	0.527	2559	92.9
106	00h17m40s	0.5365	24	12.876	874.03	0.468	0.4065	0.2697	0.527	2559	92.9
107	00h17m50s	0.5365	24	12.876	873.7	0.468	0.4065	0.2697	0.527	2559	92.9
108	00h18m00s	0.5366	24	12.8784	873.33	0.4679	0.4065	0.2696	0.527	2560	93
109	00h18m10s	0.5366	24	12.8784	873.95	0.4679	0.4065	0.2696	0.527	2560	93
110	00h18m20s	0.5366	24	12.8784	873.6	0.4681	0.4066	0.2697	0.5271	2559	92.9
111	00h18m30s	0.5367	24	12.8808	872.9	0.468	0.4064	0.2697	0.527	2558	92.9
112	00h18m40s	0.5367	24	12.8808	873.17	0.468	0.4065	0.2697	0.527	2559	92.9
113	00h18m50s	0.5368	24	12.8832	873.14	0.468	0.4066	0.2696	0.5271	2560	93
114	00h19m00s	0.5368	24	12.8832	872.96	0.468	0.4065	0.2696	0.527	2559	92.9
115	00h19m10s	0.5368	24	12.8832	873.26	0.468	0.4066	0.2697	0.527	2559	92.9
116	00h19m20s	0.5368	24	12.8832	872.79	0.468	0.4066	0.2696	0.5271	2559	92.9
117	00h19m30s	0.5369	24	12.8856	872.91	0.468	0.4065	0.2696	0.527	2559	92.9
118	00h19m40s	0.5369	24	12.8856	872.63	0.468	0.4066	0.2696	0.527	2559	92.9
119	00h19m50s	0.5369	24	12.8856	872.1	0.468	0.4066	0.2696	0.527	2559	92.9
120	00h20m00s	0.537	24	12.888	872.62	0.468	0.4065	0.2697	0.527	2559	92.9
121	00h20m10s	0.537	24	12.888	872.44	0.4681	0.4065	0.2698	0.527	2557	92.9
122	00h20m20s	0.537	24	12.888	872.21	0.468	0.4064	0.2697	0.527	2558	92.9
123	00h20m30s	0.5371	24	12.8904	872	0.468	0.4064	0.2697	0.527	2559	92.9

124	00h20m40s	0.5371	24	12.8904	872.05	0.468	0.4064	0.2697	0.527	2559	92.9
125	00h20m50s	0.5371	24	12.8904	871.54	0.4679	0.4063	0.2697	0.5269	2559	92.9
126	00h21m00s	0.5371	24	12.8904	871.46	0.468	0.4064	0.2698	0.527	2557	92.9
127	00h21m10s	0.5372	24	12.8928	871.79	0.468	0.4065	0.2696	0.527	2559	92.9
128	00h21m20s	0.5372	24	12.8928	871.53	0.468	0.4064	0.2697	0.527	2558	92.9
129	00h21m30s	0.5372	24	12.8928	871.07	0.468	0.4064	0.2697	0.527	2558	92.9
130	00h21m40s	0.5373	24	12.8952	871.59	0.468	0.4065	0.2697	0.527	2559	92.8
131	00h21m50s	0.5373	24	12.8952	870.78	0.4681	0.4064	0.2697	0.527	2557	92.9
132	00h22m00s	0.5373	24	12.8952	871.49	0.4681	0.4066	0.2697	0.5271	2558	92.9
133	00h22m10s	0.5373	24	12.8952	871.15	0.468	0.4065	0.2697	0.527	2559	92.9
134	00h22m20s	0.5374	24	12.8976	871.07	0.468	0.4064	0.2697	0.527	2558	92.9
135	00h22m30s	0.5374	24	12.8976	871	0.4681	0.4065	0.2697	0.527	2557	92.9
136	00h22m40s	0.5374	24	12.8976	870.98	0.468	0.4064	0.2697	0.527	2558	92.9
137	00h22m50s	0.5374	24	12.8976	870.72	0.468	0.4065	0.2697	0.527	2559	92.9
138	00h23m00s	0.5375	24	12.9	870.81	0.468	0.4065	0.2697	0.527	2558	92.9
139	00h23m10s	0.5375	24	12.9	870.67	0.468	0.4065	0.2697	0.527	2558	92.9
140	00h23m20s	0.5375	24	12.9	870.63	0.468	0.4064	0.2697	0.527	2558	92.9
141	00h23m30s	0.5375	24	12.9	870.32	0.468	0.4065	0.2697	0.527	2558	92.9
142	00h23m40s	0.5376	24	12.9024	870.37	0.4681	0.4065	0.2697	0.527	2557	92.9
143	00h23m50s	0.5376	24	12.9024	870.1	0.468	0.4064	0.2697	0.527	2558	92.9
144	00h24m00s	0.5376	24	12.9024	869.84	0.468	0.4063	0.2698	0.5269	2557	92.9
145	00h24m10s	0.5376	24	12.9024	869.93	0.468	0.4064	0.2697	0.527	2558	92.9
146	00h24m20s	0.5376	24	12.9024	869.96	0.468	0.4064	0.2697	0.527	2558	92.9
147	00h24m30s	0.5377	24	12.9048	870.08	0.4681	0.4064	0.2698	0.527	2557	92.8
148	00h24m40s	0.5377	24	12.9048	869.5	0.468	0.4063	0.2697	0.5269	2558	92.9
149	00h24m50s	0.5377	24	12.9048	869.63	0.468	0.4063	0.2698	0.5269	2557	92.9
150	00h25m00s	0.5377	24	12.9048	869.88	0.4681	0.4064	0.2698	0.527	2557	92.9
151	00h25m10s	0.5378	24	12.9072	869.65	0.4681	0.4063	0.2698	0.527	2557	92.8
152	00h25m20s	0.5378	24	12.9072	869.26	0.4681	0.4064	0.2698	0.527	2557	92.9
153	00h25m30s	0.5378	24	12.9072	869.68	0.4679	0.4063	0.2697	0.5269	2558	92.9
154	00h25m40s	0.5378	24	12.9072	869.57	0.4681	0.4064	0.2697	0.527	2557	92.9
155	00h25m50s	0.5378	24	12.9072	869.26	0.4679	0.4063	0.2697	0.5269	2558	92.9
156	00h26m00s	0.5379	24	12.9096	869.22	0.468	0.4063	0.2697	0.5269	2558	92.9

157	00h26m10s	0.5379	24	12.9096	868.99	0.468	0.4062	0.2698	0.5269	2557	92.8
158	00h26m20s	0.5379	24	12.9096	868.77	0.4681	0.4064	0.2698	0.527	2557	92.8
159	00h26m30s	0.5379	24	12.9096	868.78	0.4681	0.4064	0.2698	0.527	2557	92.9
160	00h26m40s	0.5379	24	12.9096	868.93	0.468	0.4064	0.2697	0.527	2558	92.9
161	00h26m50s	0.538	24	12.912	868.92	0.4681	0.4062	0.2698	0.5269	2556	92.8
162	00h27m00s	0.538	24	12.912	868.56	0.468	0.4063	0.2698	0.5269	2557	92.9
163	00h27m10s	0.538	24	12.912	868.8	0.468	0.4063	0.2697	0.5269	2557	92.8
164	00h27m20s	0.538	24	12.912	868.69	0.4682	0.4065	0.2698	0.527	2557	92.8
165	00h27m30s	0.538	24	12.912	868.81	0.4679	0.4063	0.2697	0.5269	2558	92.9
166	00h27m40s	0.538	24	12.912	868.39	0.4681	0.4064	0.2698	0.527	2557	92.9
167	00h27m50s	0.5381	24	12.9144	868.35	0.4681	0.4063	0.2698	0.5269	2556	92.8
168	00h28m00s	0.5381	24	12.9144	868.78	0.468	0.4064	0.2697	0.527	2558	92.8
169	00h28m10s	0.5381	24	12.9144	868.4	0.4681	0.4064	0.2698	0.527	2557	92.8
170	00h28m20s	0.5381	24	12.9144	868.11	0.468	0.4063	0.2698	0.5269	2557	92.8
171	00h28m30s	0.5381	24	12.9144	867.76	0.468	0.4063	0.2698	0.5269	2557	92.9
172	00h28m40s	0.5382	24	12.9168	867.9	0.468	0.4062	0.2698	0.5269	2557	92.8
173	00h28m50s	0.5382	24	12.9168	868.15	0.468	0.4062	0.2698	0.5269	2557	92.8
174	00h29m00s	0.5382	24	12.9168	867.92	0.4681	0.4064	0.2698	0.527	2557	92.9
175	00h29m10s	0.5382	24	12.9168	868	0.468	0.4063	0.2697	0.5269	2558	92.9
176	00h29m20s	0.5382	24	12.9168	868.01	0.468	0.4063	0.2697	0.5269	2558	92.9
177	00h29m30s	0.5382	24	12.9168	867.9	0.4681	0.4063	0.2698	0.5269	2557	92.8
178	00h29m40s	0.5382	24	12.9168	867.65	0.4681	0.4063	0.2698	0.527	2556	92.8
179	00h29m50s	0.5383	24	12.9192	867.7	0.468	0.4063	0.2698	0.5269	2557	92.8
180	00h30m00s	0.5383	24	12.9192	867.58	0.4681	0.4064	0.2698	0.527	2556	92.8

Test curves





*5.2 ANSI/IES TM-30-18 Color Rendition Report

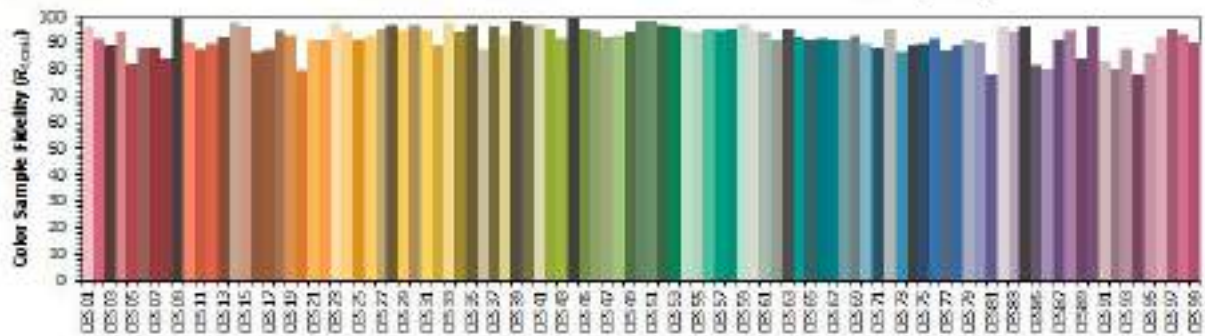
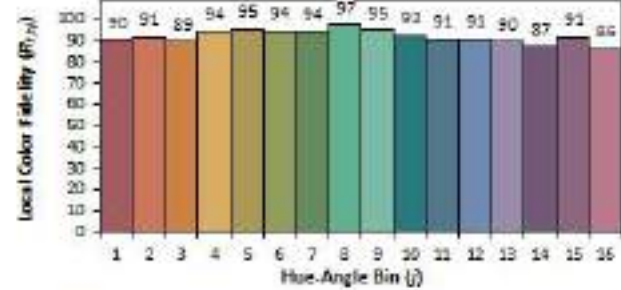
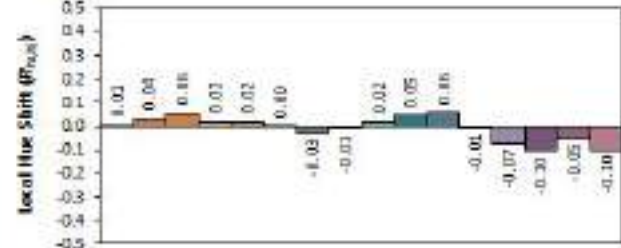
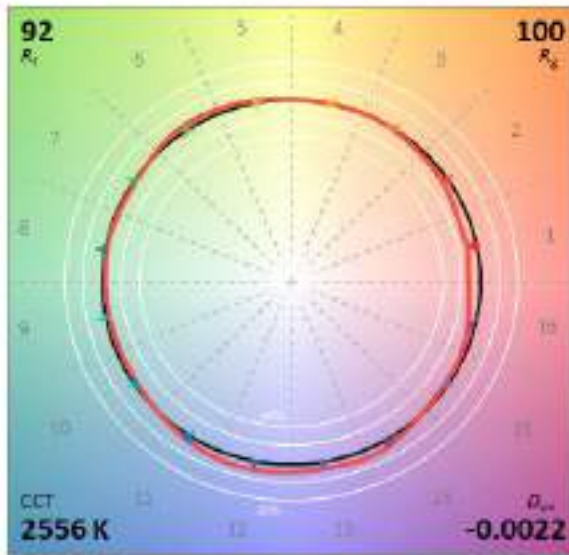
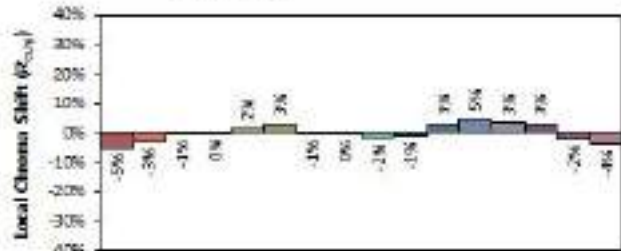
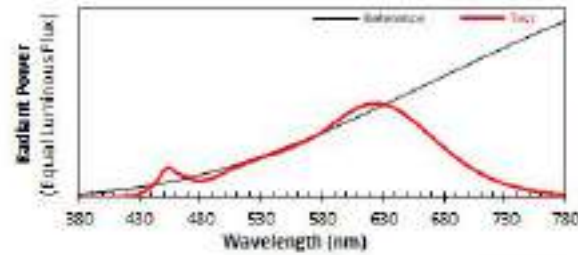
ANSI/IES TM-30-18 Color Rendition Report

Source:

Manufacturer: Guangdong Lunenhub Technology Co., Ltd

Date: 2025/3/19

Model: LUP840-0500V-L27-50-0-24-C (Vivoxi FLEX rail)



Notes: This is a recommended method for displaying ANSI/IES TM-30-18 information.

x 0.4679

y 0.4061

u' 0.2698

v' 0.5268

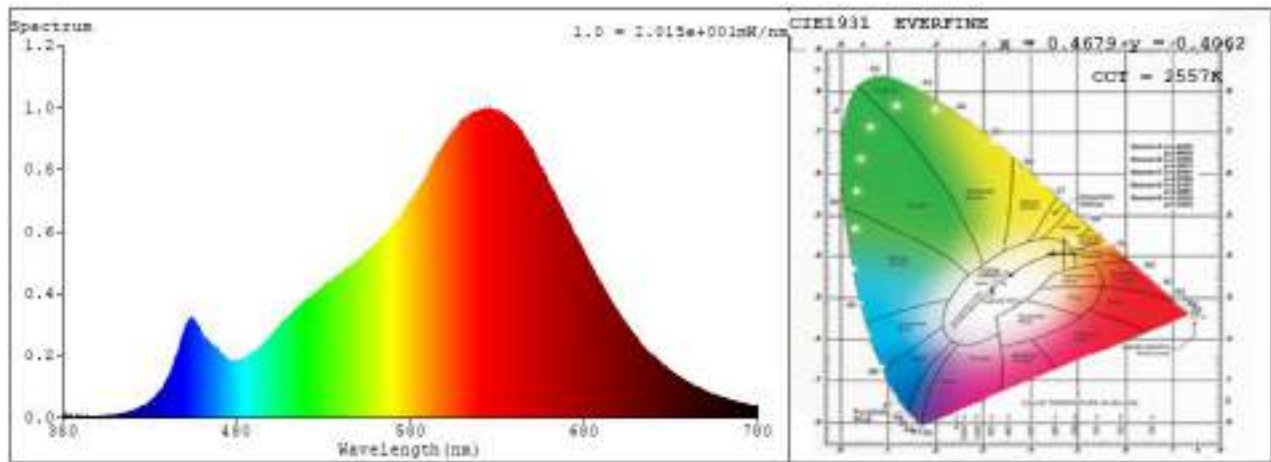
CIE 13.3-1995
(CRI)

Ra 93

Rf 59

Colors are for visual orientation purposes only. Created with the ANSI/IES TM-30-18 Calculator Version 2.00.

5.3 Relative Spectral Power Distribution



nm	mW	nm	mW	nm	mW	nm	mW	nm	mW
380	0	414	0.0117	448	0.2479	482	0.1825	516	0.355
381	0.001	415	0.0122	449	0.2663	483	0.1825	517	0.3606
382	0.0164	416	0.0125	450	0.2844	484	0.1888	518	0.3666
383	0	417	0.0138	451	0.2926	485	0.1873	519	0.3709
384	0.0082	418	0.0166	452	0.3063	486	0.1922	520	0.377
385	0	419	0.0193	453	0.3197	487	0.1957	521	0.3759
386	0	420	0.02	454	0.3224	488	0.2003	522	0.386
387	0.0014	421	0.0229	455	0.3119	489	0.2033	523	0.3874
388	0.0001	422	0.0239	456	0.3047	490	0.2084	524	0.3932
389	0.0007	423	0.0261	457	0.2977	491	0.2154	525	0.3979
390	0.0052	424	0.0272	458	0.2933	492	0.2154	526	0.3996
391	0	425	0.0303	459	0.2765	493	0.2242	527	0.4073
392	0.0009	426	0.0338	460	0.2649	494	0.2302	528	0.4131
393	0.0039	427	0.0378	461	0.2597	495	0.2334	529	0.4141
394	0.0064	428	0.0414	462	0.2494	496	0.2396	530	0.42
395	0.0043	429	0.0441	463	0.2484	497	0.249	531	0.424
396	0	430	0.049	464	0.243	498	0.2544	532	0.4276
397	0.002	431	0.0545	465	0.2363	499	0.2579	533	0.4347
398	0.0013	432	0.0572	466	0.2332	500	0.2631	534	0.4341
399	0.0018	433	0.0646	467	0.2279	501	0.2731	535	0.4424
400	0.003	434	0.0727	468	0.2269	502	0.2775	536	0.4425
401	0.0034	435	0.0768	469	0.219	503	0.2868	537	0.4514
402	0.0052	436	0.0854	470	0.2121	504	0.2942	538	0.4532
403	0.0052	437	0.0913	471	0.2055	505	0.2954	539	0.457
404	0.003	438	0.0989	472	0.1987	506	0.3055	540	0.4615
405	0.004	439	0.1117	473	0.1949	507	0.3093	541	0.4633
406	0.0019	440	0.1206	474	0.1889	508	0.3145	542	0.4699
407	0.0067	441	0.1311	475	0.1879	509	0.3188	543	0.472
408	0.0079	442	0.1431	476	0.181	510	0.3273	544	0.4814
409	0.0074	443	0.1601	477	0.1796	511	0.3305	545	0.4808
410	0.0077	444	0.1744	478	0.1788	512	0.3367	546	0.4876
411	0.0083	445	0.1898	479	0.1782	513	0.3439	547	0.4926
412	0.0081	446	0.2052	480	0.1787	514	0.3442	548	0.4959
413	0.0106	447	0.2276	481	0.1786	515	0.3528	549	0.5037

nm	mW	nm	mW	nm	mW	nm	mW	nm	mW
550	0.5033	599	0.8694	648	0.8737	697	0.3581	746	0.0934
551	0.509	600	0.8776	649	0.8716	698	0.3503	747	0.0912
552	0.5142	601	0.8869	650	0.856	699	0.344	748	0.0885
553	0.5222	602	0.8948	651	0.8532	700	0.3357	749	0.0858
554	0.5237	603	0.9011	652	0.8416	701	0.3278	750	0.0838
555	0.5312	604	0.9107	653	0.8313	702	0.3173	751	0.0811
556	0.5322	605	0.9176	654	0.8231	703	0.3115	752	0.08
557	0.5411	606	0.9222	655	0.8107	704	0.3001	753	0.0762
558	0.5508	607	0.9328	656	0.8026	705	0.2949	754	0.0742
559	0.5522	608	0.9387	657	0.788	706	0.2872	755	0.0719
560	0.5544	609	0.9564	658	0.7802	707	0.2811	756	0.0703
561	0.5628	610	0.9504	659	0.7692	708	0.2722	757	0.0676
562	0.5686	611	0.9572	660	0.7543	709	0.2655	758	0.0653
563	0.5761	612	0.9638	661	0.7414	710	0.2595	759	0.0647
564	0.5823	613	0.9709	662	0.7357	711	0.2536	760	0.0623
565	0.5894	614	0.9679	663	0.7264	712	0.2451	761	0.0602
566	0.5877	615	0.9811	664	0.7137	713	0.2385	762	0.0595
567	0.6009	616	0.9821	665	0.7013	714	0.2308	763	0.0579
568	0.6073	617	0.9879	666	0.6913	715	0.2246	764	0.0553
569	0.6138	618	0.9866	667	0.6774	716	0.2196	765	0.0537
570	0.6219	619	0.9833	668	0.6684	717	0.209	766	0.053
571	0.6287	620	0.9941	669	0.6533	718	0.2074	767	0.0494
572	0.6348	621	0.9853	670	0.643	719	0.202	768	0.0484
573	0.6467	622	0.9923	671	0.6372	720	0.1953	769	0.0472
574	0.6463	623	0.9921	672	0.6225	721	0.1901	770	0.0459
575	0.6561	624	0.9911	673	0.6105	722	0.1862	771	0.0448
576	0.6609	625	0.9892	674	0.5972	723	0.1813	772	0.0425
577	0.6723	626	0.9958	675	0.585	724	0.1736	773	0.0429
578	0.683	627	0.9894	676	0.5758	725	0.171	774	0.0412
579	0.6888	628	0.9902	677	0.5623	726	0.165	775	0.0402
580	0.6936	629	0.9904	678	0.554	727	0.1623	776	0.0384
581	0.704	630	0.989	679	0.5433	728	0.1559	777	0.0378
582	0.712	631	0.9801	680	0.5308	729	0.1517	778	0.0363
583	0.7221	632	0.9826	681	0.5193	730	0.1496	779	0.0359
584	0.7319	633	0.9792	682	0.5056	731	0.1435	780	0.0359
585	0.7401	634	0.977	683	0.499	732	0.1387		
586	0.7484	635	0.978	684	0.4881	733	0.1343		
587	0.7566	636	0.9679	685	0.4783	734	0.1313		
588	0.7643	637	0.9582	686	0.4707	735	0.128		
589	0.7787	638	0.9553	687	0.4587	736	0.1243		
590	0.7918	639	0.9481	688	0.447	737	0.1216		
591	0.7951	640	0.9431	689	0.4343	738	0.1183		
592	0.8064	641	0.9407	690	0.4299	739	0.1151		
593	0.8178	642	0.9236	691	0.4197	740	0.112		
594	0.8237	643	0.9183	692	0.4094	741	0.1074		
595	0.8347	644	0.9133	693	0.3977	742	0.1045		
596	0.8436	645	0.9064	694	0.3894	743	0.1015		
597	0.8516	646	0.9007	695	0.3789	744	0.0987		
598	0.863	647	0.8885	696	0.3676	745	0.0961		

6. Goniophotometer Test results for LVFK40-0500W-L27-50-O-24-G(Vivoxy FLEX rail)

6.1 Test Data

Test Ambient Temperature	25.2°C	Test orientation	Downward
Operate time(Min.)	90	stabilization time(Min.)	30

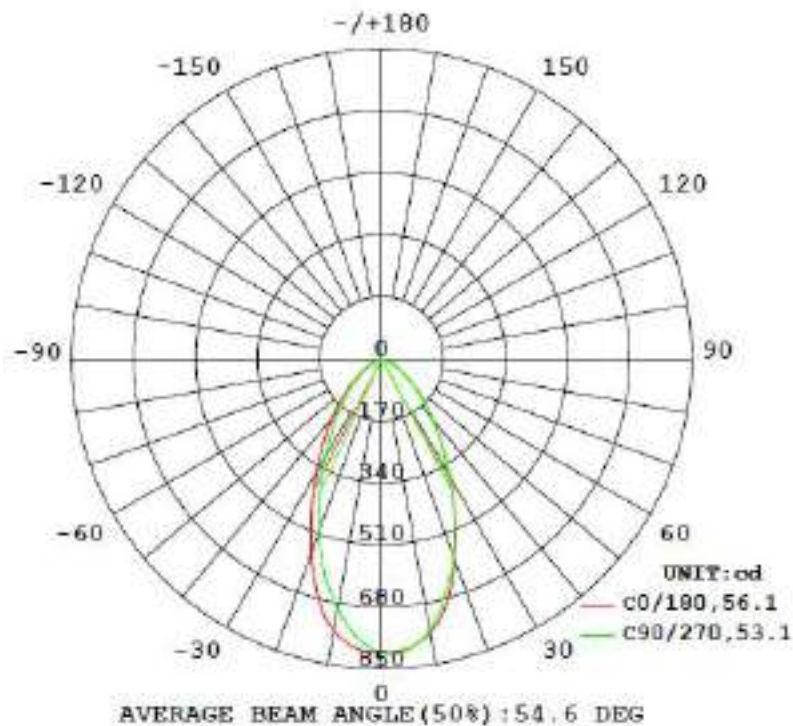
Electrical Measurement

Input Voltage (V)	Frequency (Hz)	Input Current(A)	Power Factor	Power(W)
24	--	0.527	1.0000	12.65

Optical Measurement

Luminous Flux (lm)	Efficacy(lm/W)	I _{max} (cd)	S/MH(C0/180)	S/MH(C90/270)
867.592	68.6	809.7	0.83	0.76

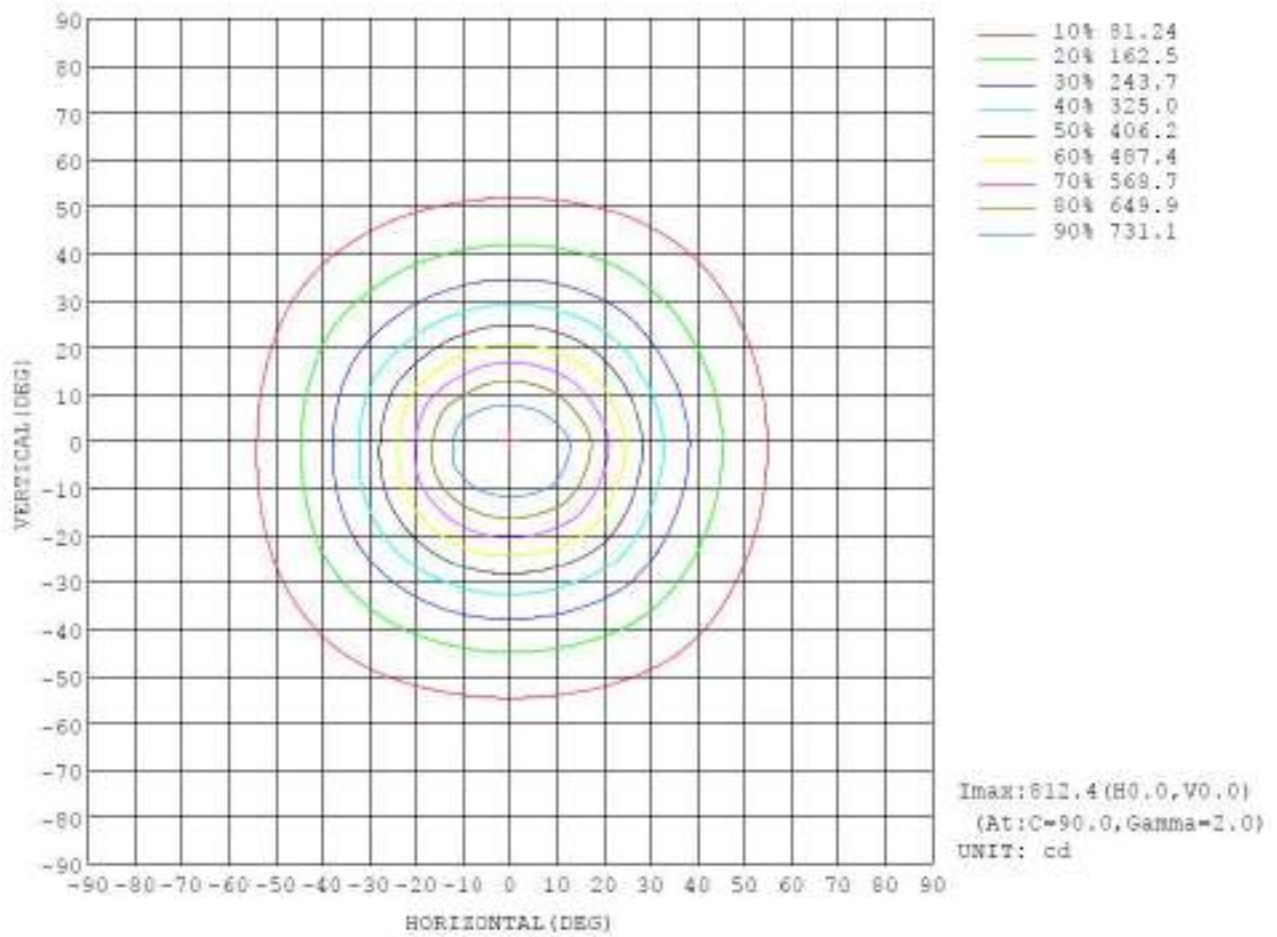
6.2 Luminous Intensity Distribution



6.3 Zonal Flux Diagram

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	Wlum, lamp
10	762.9	768.8	755.6	766.9	757.1	716.1	696.3	717.9	0- 10	73.86	73.86	8.52, 8.52
20	586.8	594.6	577.1	589.1	566.9	510.9	504.4	525.7	10- 20	129.8	129.7	24.7, 24.7
30	374.5	387.1	371.9	390.3	359.1	319.6	311.7	336.9	20- 30	107.2	449.9	54.4, 54.4
40	220.7	227.6	216.4	220.9	212.1	188.2	181.1	195.0	30- 40	170.0	619.9	73.4, 73.4
50	118.4	123.1	116.4	119.2	110.9	96.10	93.82	102.5	40- 50	119.5	739.4	87.2, 87.1
60	51.96	53.47	50.27	51.79	47.64	40.94	37.38	44.46	50- 60	68.87	808.3	94.9, 94.9
70	21.61	22.92	20.92	21.32	20.28	16.79	15.88	17.79	60- 70	31.05	849.3	98.8, 98.8
80	6.799	6.109	5.766	5.931	5.649	4.767	4.044	4.203	70- 80	11.30	860.6	99.7, 99.7
90	0.0049	0.1095	0.1805	0.1400	0.0960	0	0	0	80- 90	1.647	862.2	99.8, 99.8
100	0	0	0	0	0	0	0	0	90-100	0.0009	862.2	99.8, 99.8
110	0	0	0	0	0	0	0	0	100-110	0	862.2	99.8, 99.8
120	0	0	0	0	0	0	0	0	110-120	0	862.2	99.8, 99.8
130	0	0	0	0	0.0002	0.0085	0.3041	0.0019	120-130	0.0001	862.2	99.8, 99.8
140	0.1014	0.0879	0.0969	0.0994	0.2089	0.2437	0.2999	0.2924	130-140	0.0508	862.2	99.8, 99.8
150	0.2108	0.2118	0.2117	0.2057	0.4747	0.5165	0.5217	0.5069	140-150	0.1627	862.2	100, 100
160	0.3476	0.3407	0.3504	0.3306	0.6637	0.6883	0.7054	0.6954	150-160	0.2946	862.2	100, 100
170	0.4568	0.4498	0.4479	0.4396	0.6778	0.6781	0.6948	0.6945	160-170	0.1532	862.2	100, 100
180	0.6058	0.5909	0.5931	0.5826	0.6090	0.5928	0.5941	0.5989	170-180	0.0983	862.2	100, 100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

6.4 Isocandela Diagram



6.5 Luminous Distribution Intensity Data

Table--1

UNIT: cd

C (DEG) Y (DEG)	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5			
0	806	806	806	806	806	806	806	806	806	806	806	806	806	806	806	806			
5	797	799	803	802	802	802	803	803	797	792	779	771	768	770	777	787			
10	763	763	769	760	754	759	767	771	751	745	716	702	696	702	718	739			
15	690	691	696	690	674	679	692	700	677	662	625	612	608	616	634	687			
20	587	586	595	579	577	583	588	595	567	553	521	508	504	515	536	554			
25	476	475	488	476	472	476	479	481	456	445	417	404	402	412	432	444			
30	374	374	387	375	372	376	380	379	359	358	325	313	312	321	337	350			
35	285	285	300	288	286	289	294	293	278	272	245	235	238	245	258	270			
40	221	220	228	219	216	218	221	222	212	207	188	181	181	186	195	208			
45	165	164	170	163	162	162	164	167	157	154	138	133	135	139	144	152			
50	119	117	123	119	114	117	119	120	111	108	94.1	92.1	93.0	97.7	102	108			
55	79.8	78.6	82.6	79.3	78.0	78.9	80.9	81.1	73.7	71.1	63.0	61.1	60.5	64.2	68.6	72.5			
60	51.9	51.1	54.0	51.7	50.3	51.6	52.8	52.5	47.8	46.2	40.9	38.7	37.6	40.4	44.5	47.0			
65	33.7	33.3	35.4	33.1	31.4	32.9	34.4	34.3	31.2	30.3	27.0	24.1	23.2	25.2	29.0	30.5			
70	21.6	21.6	22.9	20.2	18.9	20.0	22.2	22.1	20.3	19.7	16.7	13.7	12.9	14.4	17.9	19.9			
75	12.6	13.0	13.4	11.0	9.81	10.9	13.2	13.4	11.9	11.9	8.27	5.86	4.32	5.53	9.85	11.9			
80	6.79	6.66	6.11	3.78	3.36	3.93	5.83	7.19	6.85	5.78	1.77	0.89	1.06	1.30	2.20	3.21			
85	2.51	1.68	1.28	1.25	1.24	1.42	1.46	2.69	2.46	1.13	0.15	0.18	0.29	0.33	0.36	0.61			
90	0.00	0.00	0.11	0.19	0.18	0.24	0.14	0.03	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
105	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
115	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
120	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
125	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
130	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
135	0.03	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.09	0.09	0.11	0.11	0.11	0.10	0.10	0.10			
140	0.10	0.10	0.09	0.09	0.09	0.09	0.09	0.09	0.21	0.21	0.24	0.24	0.24	0.24	0.24	0.23			
145	0.16	0.17	0.16	0.16	0.16	0.15	0.15	0.15	0.35	0.35	0.39	0.39	0.39	0.38	0.37	0.37			
150	0.22	0.22	0.21	0.21	0.21	0.21	0.21	0.21	0.47	0.46	0.51	0.52	0.52	0.52	0.51	0.49			
155	0.29	0.30	0.29	0.29	0.29	0.28	0.28	0.27	0.59	0.59	0.62	0.63	0.64	0.64	0.63	0.61			
160	0.35	0.35	0.35	0.35	0.35	0.34	0.34	0.34	0.67	0.67	0.69	0.69	0.71	0.71	0.70	0.68			
165	0.40	0.40	0.39	0.39	0.39	0.38	0.38	0.38	0.68	0.68	0.69	0.70	0.71	0.71	0.70	0.69			
170	0.46	0.46	0.45	0.45	0.45	0.44	0.44	0.44	0.68	0.68	0.69	0.69	0.69	0.69	0.69	0.69			
175	0.53	0.53	0.52	0.52	0.52	0.51	0.51	0.51	0.66	0.66	0.65	0.65	0.66	0.66	0.65	0.65			
180	0.61	0.61	0.59	0.59	0.59	0.59	0.59	0.59	0.60	0.60	0.59	0.59	0.59	0.60	0.60	0.59			

7. Integrating Sphere Test Results for LVFK40-0500W-L27-50-O-24-G(Vivoxy FLEX rail+shield)

7.1 Test Data

Test Ambient Temperature (Integrating sphere internal temperature)	25.1℃	Test orientation	Downward
Operate time(Min.)	30	stabilization time(Min.)	0

Optical and Electrical Measurement Result

Number	Time	Current (A)	Voltage (V)	Power (W)	Flux(lm)	x	y	u'	v'	CCT (K)	Ra
0	00h00m00s	0.5258	24	12.6192	791.45	0.468	0.4081	0.2689	0.5276	2571	93.3
1	00h00m10s	0.5264	24	12.6336	790.66	0.4679	0.408	0.2689	0.5276	2572	93.3
2	00h00m20s	0.5268	24	12.6432	789.77	0.4679	0.4079	0.269	0.5275	2571	93.3
3	00h00m30s	0.5272	24	12.6528	790	0.4679	0.408	0.2689	0.5276	2571	93.3
4	00h00m40s	0.5276	24	12.6624	789.18	0.4679	0.4079	0.269	0.5275	2570	93.3
5	00h00m50s	0.5278	24	12.6672	788.42	0.4678	0.4077	0.269	0.5274	2570	93.2
6	00h01m00s	0.5281	24	12.6744	788.08	0.4678	0.4076	0.269	0.5274	2570	93.2
7	00h01m10s	0.5283	24	12.6792	788.05	0.4677	0.4077	0.269	0.5274	2571	93.2
8	00h01m20s	0.5285	24	12.684	787.48	0.4678	0.4075	0.2691	0.5274	2569	93.2
9	00h01m30s	0.5287	24	12.6888	787.34	0.4678	0.4076	0.269	0.5274	2570	93.2
10	00h01m40s	0.5289	24	12.6936	787.31	0.4677	0.4076	0.2689	0.5274	2571	93.2
11	00h01m50s	0.529	24	12.696	786.7	0.4678	0.4076	0.269	0.5274	2570	93.2
12	00h02m00s	0.5292	24	12.7008	786.29	0.4679	0.4075	0.2691	0.5274	2569	93.2
13	00h02m10s	0.5293	24	12.7032	786.29	0.4677	0.4075	0.269	0.5273	2570	93.2
14	00h02m20s	0.5295	24	12.708	785.89	0.4677	0.4075	0.269	0.5273	2570	93.1
15	00h02m30s	0.5296	24	12.7104	785.51	0.4677	0.4074	0.2691	0.5273	2569	93.2
16	00h02m40s	0.5297	24	12.7128	785.18	0.4677	0.4074	0.2691	0.5273	2570	93.2
17	00h02m50s	0.5299	24	12.7176	784.86	0.4678	0.4073	0.2691	0.5273	2568	93.2
18	00h03m00s	0.53	24	12.72	784.62	0.4678	0.4075	0.2691	0.5273	2569	93.1
19	00h03m10s	0.5301	24	12.7224	784.6	0.4677	0.4073	0.2691	0.5273	2569	93.1
20	00h03m20s	0.5302	24	12.7248	784.26	0.4677	0.4073	0.2691	0.5273	2569	93.1
21	00h03m30s	0.5303	24	12.7272	783.86	0.4677	0.4073	0.2691	0.5273	2568	93.2
22	00h03m40s	0.5304	24	12.7296	783.64	0.4677	0.4073	0.2691	0.5273	2568	93.1
23	00h03m50s	0.5305	24	12.732	783.51	0.4677	0.4072	0.2691	0.5272	2569	93.1

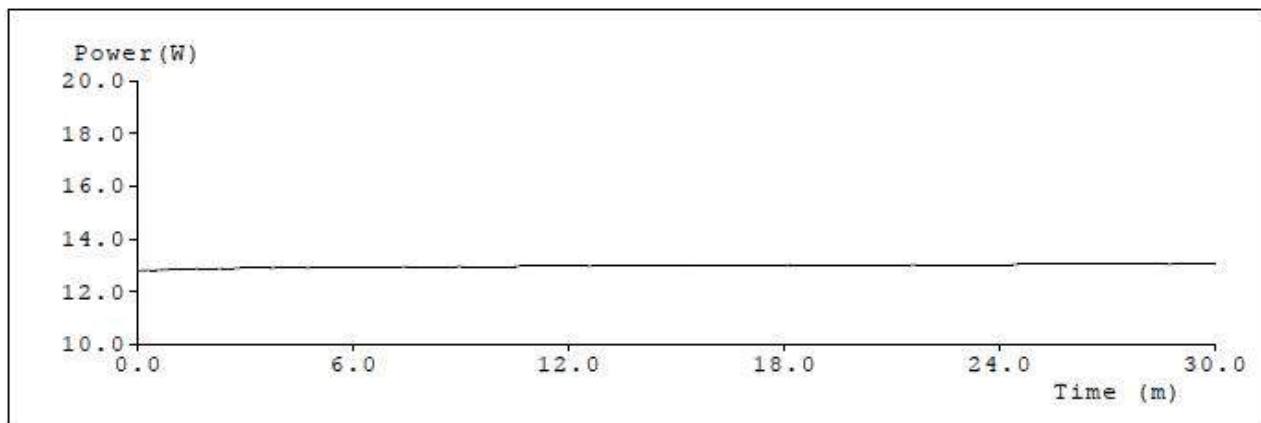
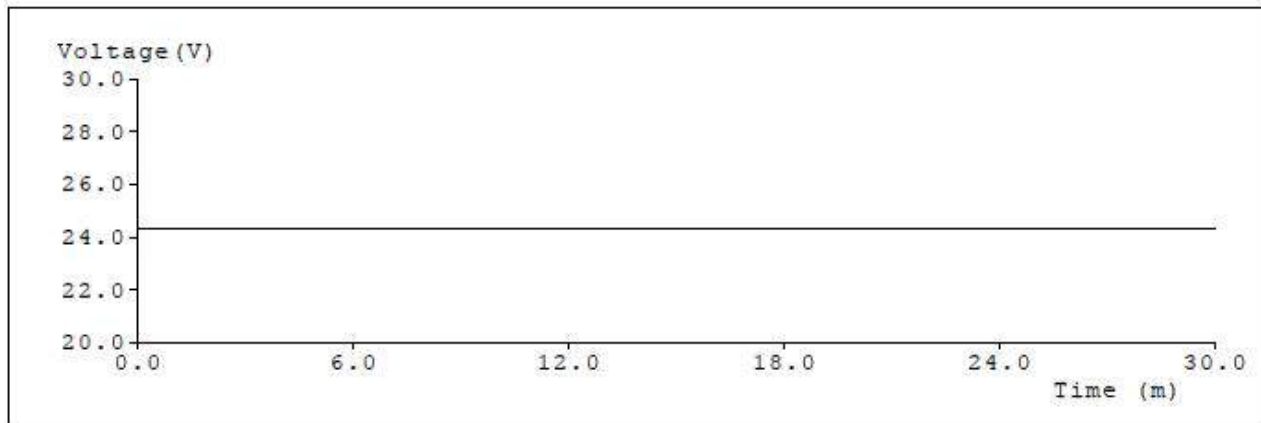
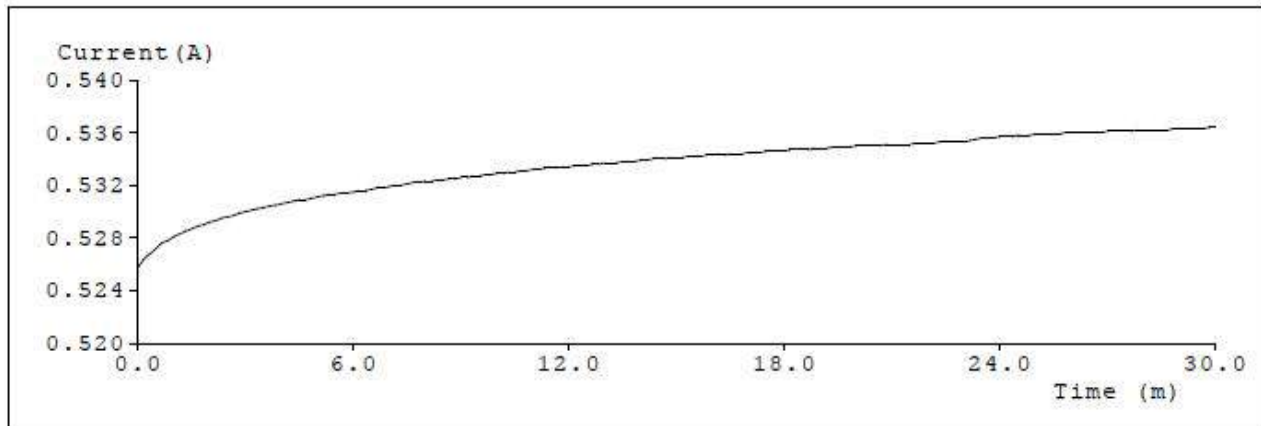
24	00h04m00s	0.5306	24	12.7344	783.05	0.4676	0.4073	0.2691	0.5273	2570	93.1
25	00h04m10s	0.5307	24	12.7368	783.07	0.4678	0.4073	0.2692	0.5273	2567	93.1
26	00h04m20s	0.5308	24	12.7392	782.47	0.4678	0.4073	0.2692	0.5273	2567	93.1
27	00h04m30s	0.5309	24	12.7416	782.33	0.4678	0.4072	0.2692	0.5273	2567	93.1
28	00h04m40s	0.5309	24	12.7416	782.32	0.4677	0.4071	0.2692	0.5272	2567	93.1
29	00h04m50s	0.531	24	12.744	782.1	0.4677	0.407	0.2692	0.5272	2566	93.1
30	00h05m00s	0.5311	24	12.7464	781.97	0.4677	0.4071	0.2692	0.5272	2568	93.1
31	00h05m10s	0.5312	24	12.7488	781.69	0.4677	0.407	0.2692	0.5272	2567	93.1
32	00h05m20s	0.5313	24	12.7512	781.98	0.4678	0.4072	0.2692	0.5272	2567	93.1
33	00h05m30s	0.5313	24	12.7512	781.41	0.4677	0.407	0.2692	0.5272	2567	93.1
34	00h05m40s	0.5314	24	12.7536	781.24	0.4678	0.4071	0.2693	0.5272	2566	93.1
35	00h05m50s	0.5314	24	12.7536	781.02	0.4677	0.4069	0.2693	0.5271	2566	93.1
36	00h06m00s	0.5315	24	12.756	780.86	0.4677	0.4071	0.2692	0.5272	2567	93.1
37	00h06m10s	0.5316	24	12.7584	780.61	0.4677	0.407	0.2692	0.5272	2567	93
38	00h06m20s	0.5316	24	12.7584	780.37	0.4677	0.4071	0.2692	0.5272	2567	93.1
39	00h06m30s	0.5317	24	12.7608	780.17	0.4677	0.407	0.2692	0.5272	2566	93.1
40	00h06m40s	0.5318	24	12.7632	780.58	0.4678	0.407	0.2693	0.5272	2566	93.1
41	00h06m50s	0.5318	24	12.7632	779.79	0.4677	0.4071	0.2692	0.5272	2567	93.1
42	00h07m00s	0.5319	24	12.7656	779.7	0.4678	0.407	0.2693	0.5272	2566	93
43	00h07m10s	0.532	24	12.768	780.02	0.4677	0.407	0.2693	0.5272	2566	93
44	00h07m20s	0.532	24	12.768	779.51	0.4678	0.4071	0.2693	0.5272	2566	93
45	00h07m30s	0.5321	24	12.7704	779.43	0.4677	0.4069	0.2693	0.5271	2566	93
46	00h07m40s	0.5322	24	12.7728	778.92	0.4677	0.407	0.2693	0.5272	2566	93
47	00h07m50s	0.5322	24	12.7728	778.67	0.4676	0.4069	0.2692	0.5271	2567	93
48	00h08m00s	0.5323	24	12.7752	778.73	0.4677	0.4069	0.2693	0.5271	2565	93
49	00h08m10s	0.5323	24	12.7752	778.5	0.4678	0.4069	0.2694	0.5271	2564	93
50	00h08m20s	0.5324	24	12.7776	778.56	0.4678	0.407	0.2693	0.5272	2565	93.1
51	00h08m30s	0.5324	24	12.7776	777.94	0.4677	0.4068	0.2694	0.5271	2565	93
52	00h08m40s	0.5325	24	12.78	778.01	0.4678	0.407	0.2693	0.5272	2565	93.1
53	00h08m50s	0.5325	24	12.78	778.09	0.4677	0.4069	0.2693	0.5271	2566	93
54	00h09m00s	0.5326	24	12.7824	777.79	0.4677	0.4069	0.2693	0.5271	2566	93
55	00h09m10s	0.5326	24	12.7824	777.43	0.4677	0.4068	0.2693	0.5271	2565	93
56	00h09m20s	0.5327	24	12.7848	777.44	0.4677	0.4069	0.2693	0.5271	2565	93

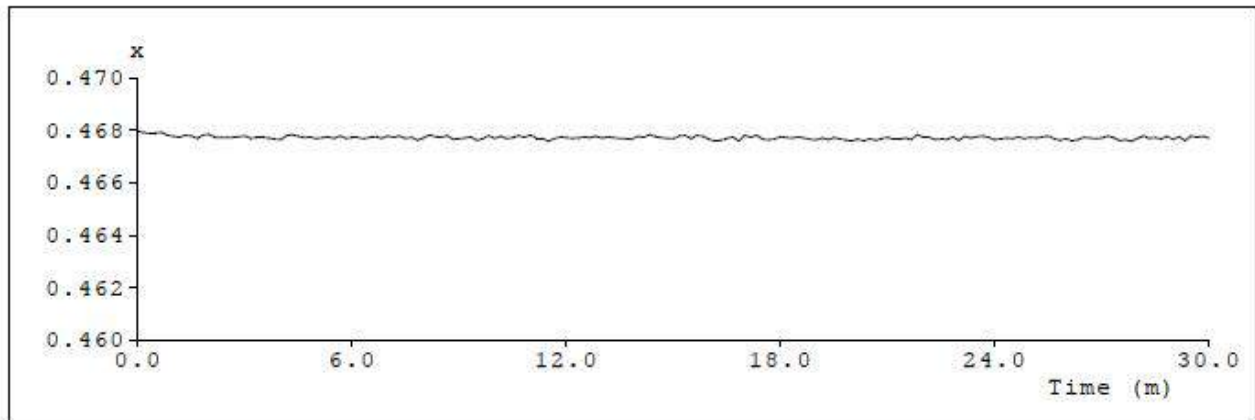
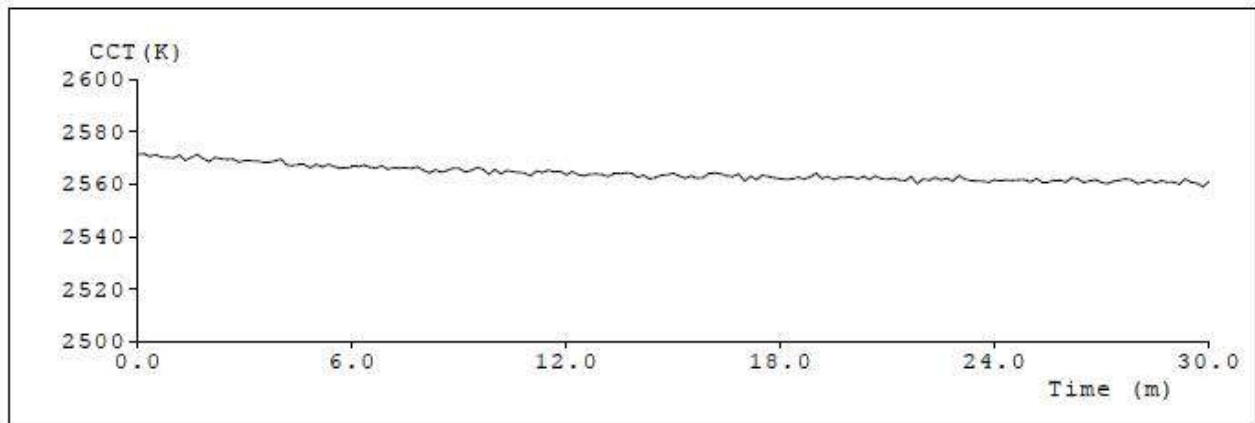
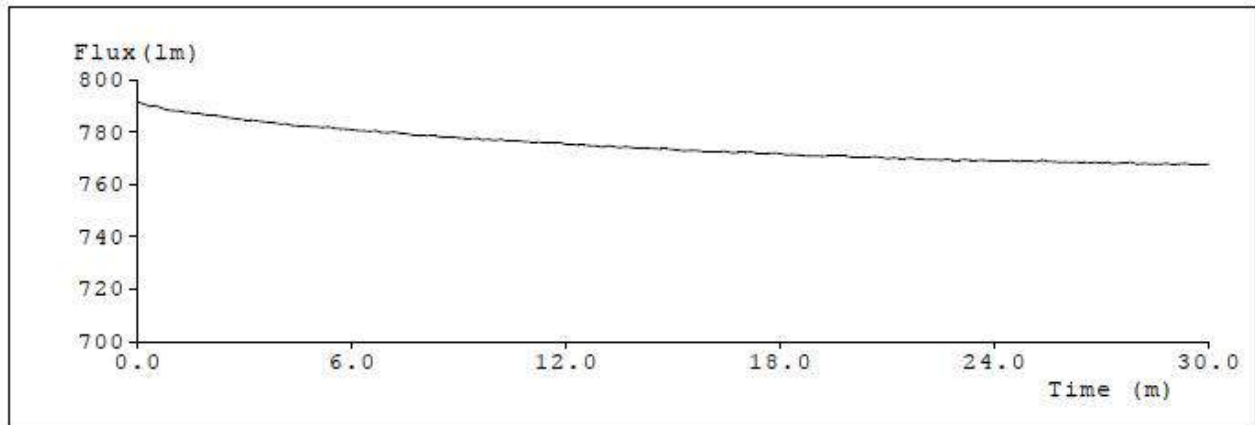
57	00h09m30s	0.5327	24	12.7848	777.61	0.4676	0.4068	0.2693	0.5271	2566	93
58	00h09m40s	0.5328	24	12.7872	776.99	0.4677	0.4068	0.2693	0.5271	2566	93
59	00h09m50s	0.5328	24	12.7872	777.18	0.4678	0.4068	0.2694	0.5271	2564	93
60	00h10m00s	0.5329	24	12.7896	776.74	0.4677	0.4069	0.2693	0.5271	2566	93
61	00h10m10s	0.5329	24	12.7896	777.19	0.4678	0.4068	0.2694	0.5271	2564	93
62	00h10m20s	0.533	24	12.792	776.62	0.4677	0.4068	0.2693	0.5271	2565	93
63	00h10m30s	0.533	24	12.792	776.65	0.4677	0.4068	0.2693	0.5271	2565	93
64	00h10m40s	0.5331	24	12.7944	776.58	0.4678	0.4069	0.2693	0.5271	2564	93
65	00h10m50s	0.5331	24	12.7944	776.3	0.4677	0.4067	0.2694	0.5271	2564	93
66	00h11m00s	0.5332	24	12.7968	776.2	0.4678	0.4068	0.2694	0.5271	2563	93
67	00h11m10s	0.5332	24	12.7968	776.14	0.4677	0.4068	0.2693	0.5271	2565	93
68	00h11m20s	0.5333	24	12.7992	775.93	0.4677	0.4067	0.2694	0.527	2564	93
69	00h11m30s	0.5333	24	12.7992	775.75	0.4676	0.4066	0.2693	0.527	2565	93
70	00h11m40s	0.5333	24	12.7992	775.86	0.4677	0.4067	0.2694	0.5271	2565	93
71	00h11m50s	0.5334	24	12.8016	775.87	0.4677	0.4069	0.2693	0.5271	2565	93
72	00h12m00s	0.5334	24	12.8016	775.15	0.4677	0.4066	0.2694	0.527	2564	93
73	00h12m10s	0.5335	24	12.804	775.27	0.4677	0.4068	0.2693	0.5271	2565	93
74	00h12m20s	0.5335	24	12.804	774.91	0.4677	0.4066	0.2694	0.527	2564	92.9
75	00h12m30s	0.5335	24	12.804	774.88	0.4677	0.4066	0.2694	0.527	2563	93
76	00h12m40s	0.5336	24	12.8064	774.78	0.4677	0.4067	0.2694	0.527	2564	92.9
77	00h12m50s	0.5336	24	12.8064	774.71	0.4678	0.4068	0.2694	0.5271	2564	93
78	00h13m00s	0.5337	24	12.8088	774.24	0.4677	0.4066	0.2694	0.527	2564	92.9
79	00h13m10s	0.5337	24	12.8088	774.72	0.4677	0.4066	0.2694	0.527	2563	92.9
80	00h13m20s	0.5337	24	12.8088	774.35	0.4677	0.4067	0.2694	0.527	2564	93
81	00h13m30s	0.5338	24	12.8112	774.07	0.4677	0.4066	0.2694	0.527	2564	93
82	00h13m40s	0.5338	24	12.8112	774.35	0.4677	0.4067	0.2694	0.527	2564	93
83	00h13m50s	0.5338	24	12.8112	774.01	0.4677	0.4066	0.2694	0.527	2564	93
84	00h14m00s	0.5339	24	12.8136	773.69	0.4678	0.4066	0.2695	0.527	2563	92.9
85	00h14m10s	0.5339	24	12.8136	773.91	0.4677	0.4066	0.2694	0.527	2563	93
86	00h14m20s	0.534	24	12.816	773.79	0.4678	0.4066	0.2695	0.527	2562	92.9
87	00h14m30s	0.534	24	12.816	773.56	0.4678	0.4066	0.2695	0.527	2563	92.9
88	00h14m40s	0.534	24	12.816	773.52	0.4677	0.4066	0.2694	0.527	2563	92.9
89	00h14m50s	0.5341	24	12.8184	773.44	0.4677	0.4066	0.2694	0.527	2564	92.9

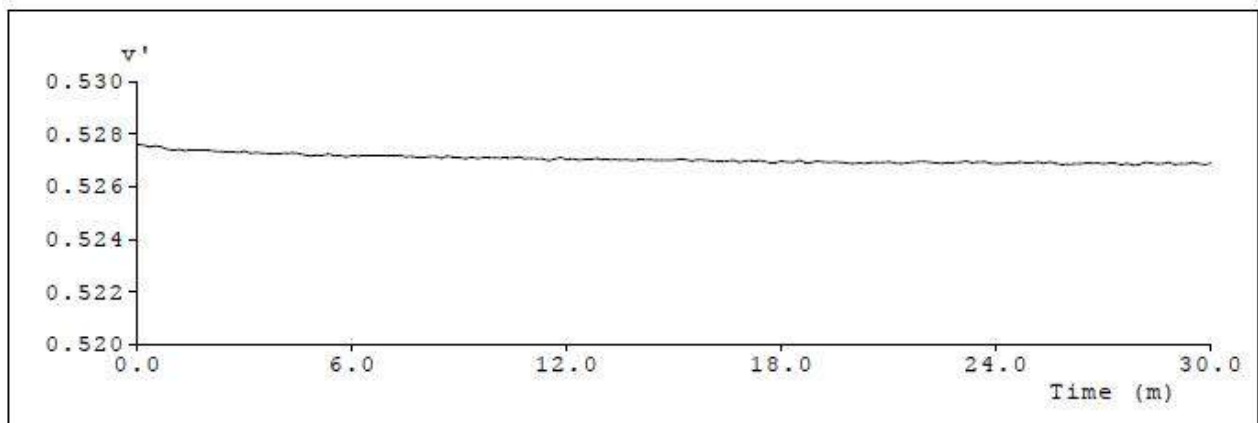
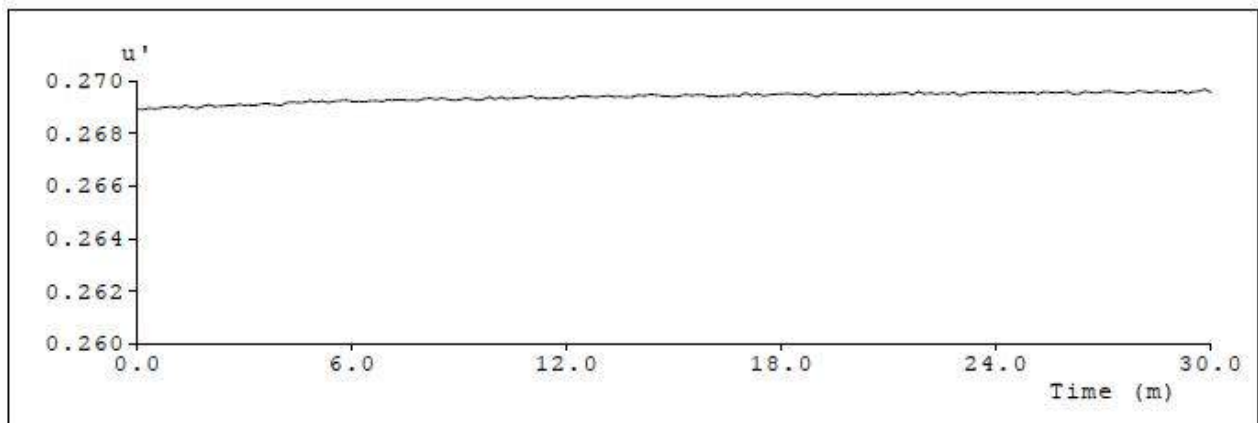
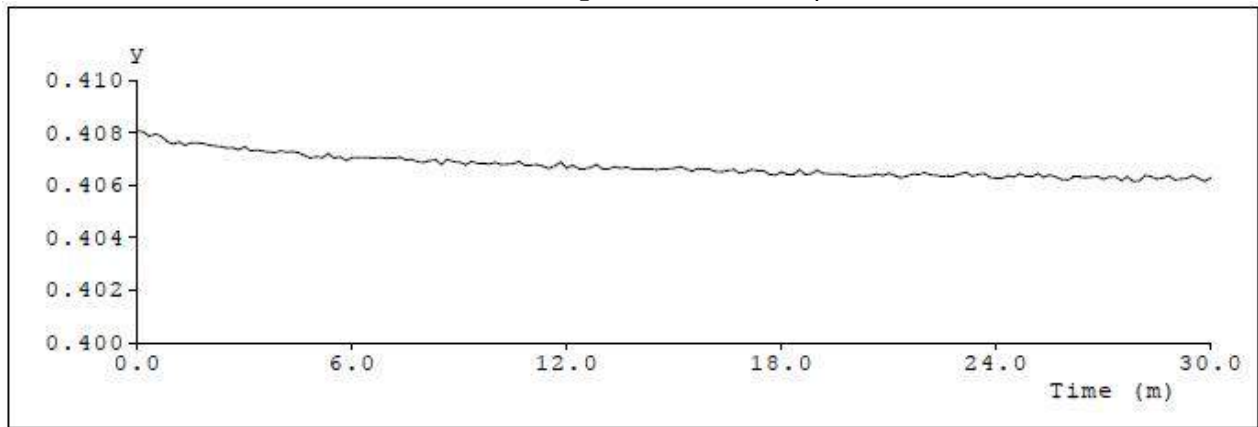
90	00h15m00s	0.5341	24	12.8184	773.28	0.4677	0.4066	0.2694	0.527	2564	92.9
91	00h15m10s	0.5341	24	12.8184	772.97	0.4678	0.4067	0.2694	0.5271	2563	93
92	00h15m20s	0.5342	24	12.8208	772.75	0.4678	0.4066	0.2695	0.527	2562	92.9
93	00h15m30s	0.5342	24	12.8208	772.93	0.4677	0.4065	0.2694	0.527	2563	92.9
94	00h15m40s	0.5342	24	12.8208	772.88	0.4678	0.4066	0.2695	0.527	2562	92.9
95	00h15m50s	0.5343	24	12.8232	772.56	0.4678	0.4066	0.2695	0.527	2563	92.9
96	00h16m00s	0.5343	24	12.8232	772.56	0.4677	0.4066	0.2694	0.527	2564	92.9
97	00h16m10s	0.5343	24	12.8232	772.62	0.4676	0.4065	0.2694	0.527	2564	92.9
98	00h16m20s	0.5343	24	12.8232	772.62	0.4676	0.4065	0.2694	0.527	2564	92.9
99	00h16m30s	0.5344	24	12.8256	772.43	0.4677	0.4065	0.2694	0.527	2563	92.9
100	00h16m40s	0.5344	24	12.8256	771.97	0.4677	0.4066	0.2695	0.527	2563	92.9
101	00h16m50s	0.5344	24	12.8256	772.03	0.4676	0.4065	0.2694	0.5269	2564	92.9
102	00h17m00s	0.5345	24	12.828	772.07	0.4678	0.4065	0.2695	0.527	2561	92.9
103	00h17m10s	0.5345	24	12.828	772.48	0.4677	0.4066	0.2694	0.527	2563	92.9
104	00h17m20s	0.5345	24	12.828	771.78	0.4678	0.4066	0.2695	0.527	2562	92.9
105	00h17m30s	0.5346	24	12.8304	771.82	0.4677	0.4065	0.2694	0.527	2563	92.9
106	00h17m40s	0.5346	24	12.8304	771.81	0.4676	0.4064	0.2695	0.5269	2563	92.9
107	00h17m50s	0.5346	24	12.8304	771.95	0.4677	0.4064	0.2695	0.5269	2562	92.9
108	00h18m00s	0.5346	24	12.8304	771.66	0.4678	0.4065	0.2695	0.527	2562	92.9
109	00h18m10s	0.5347	24	12.8328	771.14	0.4677	0.4064	0.2695	0.5269	2562	92.9
110	00h18m20s	0.5347	24	12.8328	771.27	0.4677	0.4064	0.2695	0.5269	2562	92.9
111	00h18m30s	0.5347	24	12.8328	771.16	0.4678	0.4066	0.2695	0.527	2563	92.9
112	00h18m40s	0.5347	24	12.8328	770.98	0.4677	0.4064	0.2695	0.5269	2562	92.9
113	00h18m50s	0.5348	24	12.8352	770.85	0.4677	0.4064	0.2695	0.5269	2563	92.9
114	00h19m00s	0.5348	24	12.8352	770.97	0.4676	0.4066	0.2694	0.527	2564	92.9
115	00h19m10s	0.5348	24	12.8352	770.68	0.4677	0.4064	0.2695	0.5269	2562	92.9
116	00h19m20s	0.5349	24	12.8376	770.83	0.4676	0.4064	0.2695	0.5269	2563	92.9
117	00h19m30s	0.5349	24	12.8376	770.75	0.4677	0.4064	0.2695	0.5269	2562	92.9
118	00h19m40s	0.5349	24	12.8376	770.8	0.4677	0.4064	0.2695	0.5269	2563	92.9
119	00h19m50s	0.5349	24	12.8376	770.77	0.4676	0.4064	0.2695	0.5269	2563	92.9
120	00h20m00s	0.535	24	12.84	770.36	0.4676	0.4063	0.2695	0.5269	2563	92.9
121	00h20m10s	0.535	24	12.84	770.43	0.4677	0.4064	0.2695	0.5269	2562	92.9
122	00h20m20s	0.535	24	12.84	770.43	0.4676	0.4064	0.2695	0.5269	2563	92.9

123	00h20m30s	0.535	24	12.84	770.36	0.4677	0.4064	0.2695	0.5269	2562	92.9
124	00h20m40s	0.535	24	12.84	770.5	0.4676	0.4064	0.2695	0.5269	2563	92.9
125	00h20m50s	0.5351	24	12.8424	770.25	0.4677	0.4064	0.2695	0.5269	2562	92.9
126	00h21m00s	0.5351	24	12.8424	769.73	0.4677	0.4065	0.2695	0.527	2562	92.9
127	00h21m10s	0.5351	24	12.8424	770.12	0.4677	0.4064	0.2695	0.5269	2562	92.9
128	00h21m20s	0.5351	24	12.8424	769.92	0.4677	0.4063	0.2695	0.5269	2562	92.9
129	00h21m30s	0.5351	24	12.8424	769.88	0.4677	0.4063	0.2696	0.5269	2561	92.9
130	00h21m40s	0.5352	24	12.8448	770.13	0.4676	0.4064	0.2695	0.5269	2563	92.8
131	00h21m50s	0.5352	24	12.8448	769.57	0.4678	0.4064	0.2696	0.5269	2560	92.9
132	00h22m00s	0.5352	24	12.8448	769.55	0.4677	0.4065	0.2695	0.527	2562	92.9
133	00h22m10s	0.5352	24	12.8448	769.34	0.4677	0.4064	0.2695	0.5269	2561	92.9
134	00h22m20s	0.5353	24	12.8472	769.54	0.4676	0.4064	0.2695	0.5269	2563	92.9
135	00h22m30s	0.5353	24	12.8472	769.27	0.4677	0.4063	0.2695	0.5269	2562	92.8
136	00h22m40s	0.5353	24	12.8472	769.67	0.4677	0.4064	0.2695	0.5269	2562	92.8
137	00h22m50s	0.5353	24	12.8472	769.29	0.4677	0.4064	0.2696	0.5269	2561	92.9
138	00h23m00s	0.5353	24	12.8472	769.2	0.4676	0.4064	0.2694	0.5269	2563	92.9
139	00h23m10s	0.5354	24	12.8496	769.51	0.4678	0.4065	0.2695	0.527	2562	92.8
140	00h23m20s	0.5355	24	12.852	769.12	0.4677	0.4063	0.2696	0.5269	2561	92.9
141	00h23m30s	0.5356	24	12.8544	769.17	0.4678	0.4064	0.2695	0.5269	2561	92.9
142	00h23m40s	0.5356	24	12.8544	769.27	0.4678	0.4064	0.2696	0.527	2561	92.8
143	00h23m50s	0.5356	24	12.8544	769.06	0.4677	0.4063	0.2696	0.5269	2561	92.8
144	00h24m00s	0.5357	24	12.8568	768.83	0.4676	0.4063	0.2695	0.5269	2562	92.9
145	00h24m10s	0.5357	24	12.8568	768.97	0.4677	0.4063	0.2696	0.5269	2561	92.8
146	00h24m20s	0.5357	24	12.8568	768.86	0.4677	0.4064	0.2695	0.5269	2562	92.9
147	00h24m30s	0.5358	24	12.8592	769.14	0.4677	0.4063	0.2696	0.5269	2561	92.8
148	00h24m40s	0.5358	24	12.8592	768.79	0.4677	0.4064	0.2695	0.5269	2562	92.9
149	00h24m50s	0.5358	24	12.8592	768.96	0.4677	0.4063	0.2695	0.5269	2562	92.8
150	00h25m00s	0.5359	24	12.8616	768.98	0.4677	0.4063	0.2696	0.5269	2561	92.9
151	00h25m10s	0.5359	24	12.8616	768.65	0.4677	0.4064	0.2695	0.5269	2562	92.8
152	00h25m20s	0.5359	24	12.8616	769.27	0.4677	0.4063	0.2696	0.5269	2561	92.8
153	00h25m30s	0.5359	24	12.8616	768.75	0.4678	0.4064	0.2696	0.5269	2561	92.8
154	00h25m40s	0.5359	24	12.8616	768.65	0.4677	0.4063	0.2695	0.5269	2562	92.8
155	00h25m50s	0.536	24	12.864	768.34	0.4676	0.4062	0.2696	0.5268	2562	92.9

156	00h26m00s	0.536	24	12.864	768.51	0.4677	0.4062	0.2696	0.5268	2561	92.8
157	00h26m10s	0.536	24	12.864	768.41	0.4676	0.4063	0.2695	0.5269	2563	92.9
158	00h26m20s	0.536	24	12.864	768.48	0.4676	0.4063	0.2695	0.5269	2562	92.8
159	00h26m30s	0.536	24	12.864	768.5	0.4677	0.4063	0.2696	0.5269	2561	92.8
160	00h26m40s	0.536	24	12.864	768.26	0.4677	0.4063	0.2696	0.5269	2561	92.8
161	00h26m50s	0.536	24	12.864	768.33	0.4677	0.4063	0.2695	0.5269	2562	92.8
162	00h27m00s	0.5361	24	12.8664	768.04	0.4677	0.4062	0.2696	0.5269	2561	92.8
163	00h27m10s	0.5361	24	12.8664	768.32	0.4678	0.4063	0.2696	0.5269	2560	92.8
164	00h27m20s	0.5361	24	12.8664	767.81	0.4677	0.4063	0.2696	0.5269	2561	92.8
165	00h27m30s	0.5361	24	12.8664	768.08	0.4676	0.4062	0.2696	0.5268	2561	92.9
166	00h27m40s	0.5361	24	12.8664	768.23	0.4676	0.4063	0.2695	0.5269	2562	92.8
167	00h27m50s	0.5362	24	12.8688	768.32	0.4676	0.4061	0.2696	0.5268	2562	92.9
168	00h28m00s	0.5362	24	12.8688	767.6	0.4677	0.4062	0.2696	0.5268	2560	92.8
169	00h28m10s	0.5362	24	12.8688	767.91	0.4678	0.4064	0.2696	0.5269	2561	92.8
170	00h28m20s	0.5362	24	12.8688	767.73	0.4677	0.4063	0.2695	0.5269	2562	92.9
171	00h28m30s	0.5362	24	12.8688	767.56	0.4677	0.4062	0.2696	0.5269	2560	92.8
172	00h28m40s	0.5362	24	12.8688	767.74	0.4677	0.4063	0.2696	0.5269	2561	92.9
173	00h28m50s	0.5363	24	12.8712	767.99	0.4678	0.4064	0.2696	0.5269	2561	92.8
174	00h29m00s	0.5363	24	12.8712	767.51	0.4677	0.4062	0.2696	0.5268	2561	92.8
175	00h29m10s	0.5363	24	12.8712	767.75	0.4678	0.4062	0.2696	0.5269	2560	92.8
176	00h29m20s	0.5363	24	12.8712	767.92	0.4676	0.4063	0.2695	0.5269	2562	92.8
177	00h29m30s	0.5363	24	12.8712	767.61	0.4678	0.4064	0.2696	0.5269	2561	92.8
178	00h29m40s	0.5363	24	12.8712	767.56	0.4677	0.4062	0.2696	0.5269	2560	92.8
179	00h29m50s	0.5364	24	12.8736	767.4	0.4678	0.4061	0.2697	0.5268	2559	92.8
180	00h30m00s	0.5364	24	12.8736	767.66	0.4677	0.4063	0.2696	0.5269	2561	92.8

Test curves





*7.2 ANSI/IES TM-30-18 Color Rendition Report

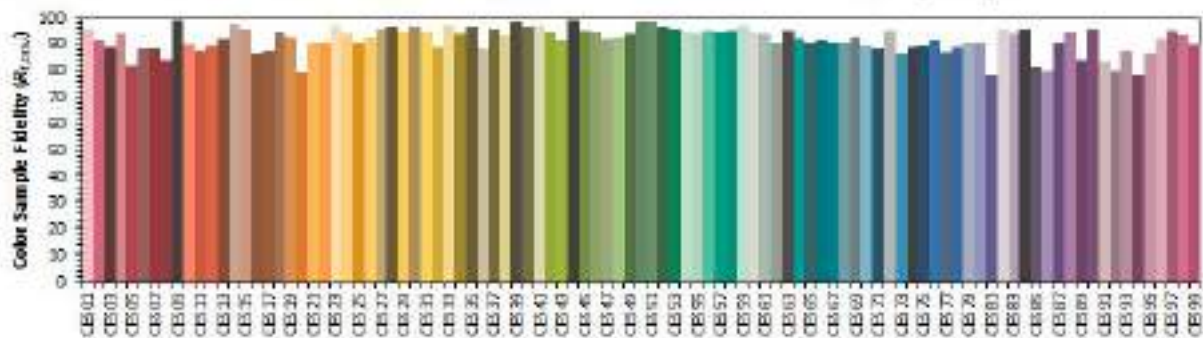
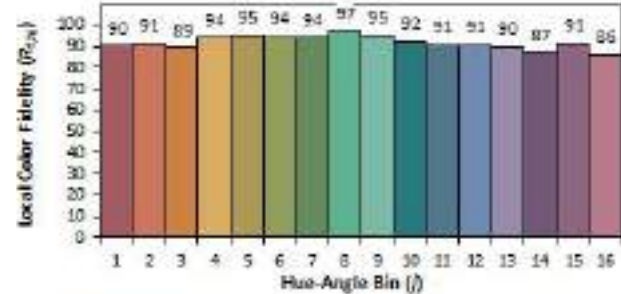
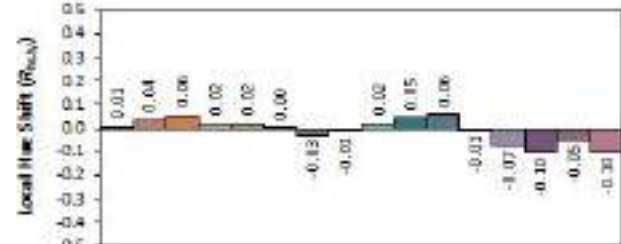
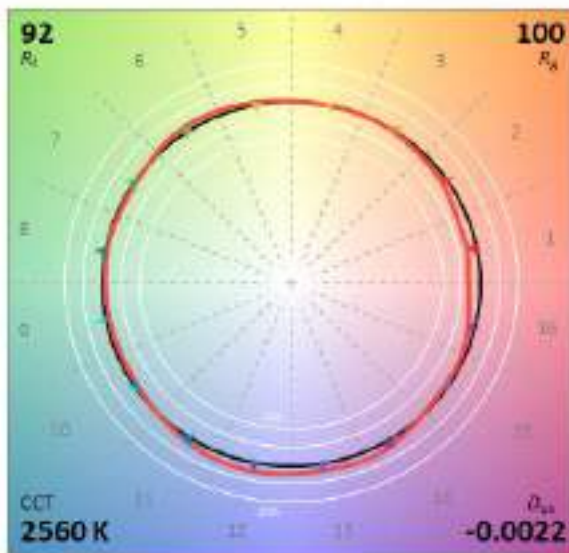
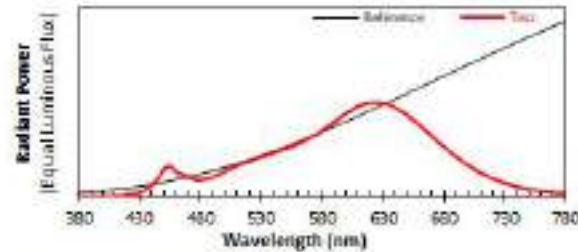
ANSI/IES TM-30-18 Color Rendition Report

Source:

Manufacturer: Guangdong Lunshub Technology Co., Ltd

Date: 2025/3/19

Model: LUPEd0-0500V-L27-50-0-2d-C (Vivoxy FLEX rail+shield)



Notes: This is a recommended method for displaying ANSI/IES TM-30-18 information.

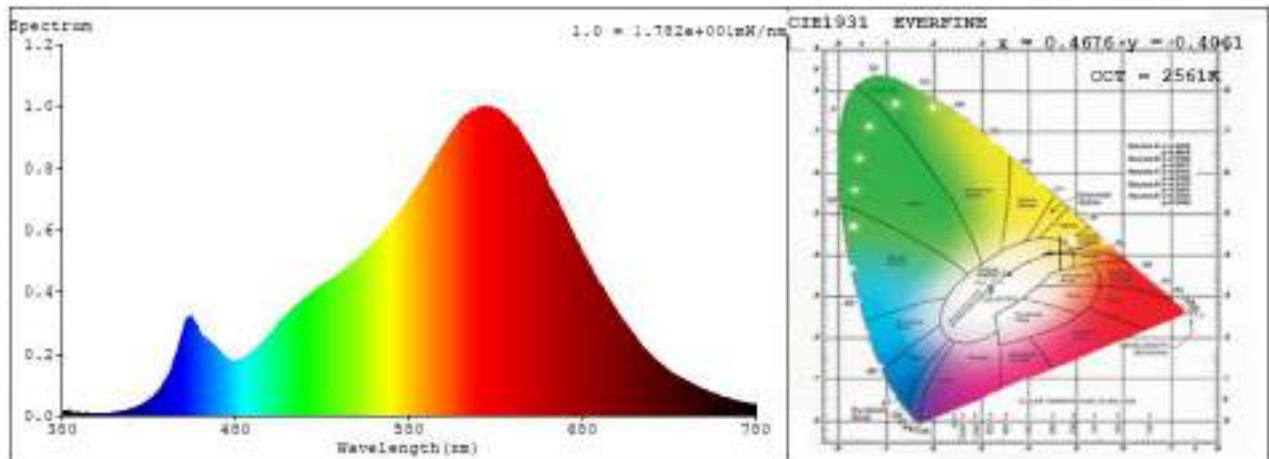
x 0.4676
 y 0.4060
 u' 0.2696
 v' 0.5268

CIE 13.3-1995
 (CRI)

R_A 93
 R_g 59

Colors are for visual orientation purposes only. Created with the ANSI/IES TM-30-18 Calculator Version 2.00.

7.3 Relative Spectral Power Distribution



nm	mW	nm	mW	nm	mW	nm	mW	nm	mW
380	0.0169	414	0.0125	448	0.2449	482	0.1814	516	0.3565
381	0.0153	415	0.0126	449	0.2705	483	0.1846	517	0.363
382	0	416	0.0144	450	0.2872	484	0.1884	518	0.3653
383	0.0078	417	0.0163	451	0.2956	485	0.1874	519	0.3702
384	0.0128	418	0.0183	452	0.3079	486	0.1934	520	0.3755
385	0.0079	419	0.0197	453	0.3171	487	0.195	521	0.3799
386	0.0087	420	0.0214	454	0.3217	488	0.2014	522	0.3877
387	0.0078	421	0.0217	455	0.3181	489	0.2029	523	0.3884
388	0.0093	422	0.0263	456	0.3095	490	0.2102	524	0.3923
389	0.0035	423	0.0261	457	0.3001	491	0.2154	525	0.3976
390	0.0043	424	0.0311	458	0.2896	492	0.2181	526	0.4036
391	0.0068	425	0.033	459	0.2786	493	0.2226	527	0.4085
392	0.0081	426	0.0346	460	0.2668	494	0.2312	528	0.415
393	0.0086	427	0.0395	461	0.2568	495	0.2375	529	0.4154
394	0.0053	428	0.0408	462	0.2527	496	0.2416	530	0.4237
395	0.0025	429	0.0452	463	0.2456	497	0.2467	531	0.4224
396	0.0046	430	0.05	464	0.2451	498	0.2541	532	0.4264
397	0.0058	431	0.0554	465	0.2373	499	0.2606	533	0.4363
398	0.0044	432	0.059	466	0.2333	500	0.2664	534	0.4333
399	0.0035	433	0.0653	467	0.2277	501	0.2716	535	0.4424
400	0.0052	434	0.0715	468	0.2243	502	0.2798	536	0.4417
401	0.0054	435	0.0781	469	0.2157	503	0.2851	537	0.4506
402	0.0053	436	0.0859	470	0.2167	504	0.2972	538	0.4512
403	0.0051	437	0.0912	471	0.2066	505	0.2957	539	0.4566
404	0.0068	438	0.0977	472	0.198	506	0.303	540	0.4601
405	0.0062	439	0.1105	473	0.1939	507	0.3116	541	0.4671
406	0.0059	440	0.1221	474	0.1879	508	0.3144	542	0.4695
407	0.0055	441	0.1286	475	0.188	509	0.3184	543	0.4758
408	0.0072	442	0.144	476	0.1825	510	0.3296	544	0.4793
409	0.0095	443	0.1614	477	0.1763	511	0.3286	545	0.4822
410	0.0092	444	0.176	478	0.1783	512	0.3369	546	0.4895
411	0.0097	445	0.1926	479	0.1784	513	0.3435	547	0.4929
412	0.0105	446	0.2086	480	0.1769	514	0.3468	548	0.4963
413	0.0117	447	0.2273	481	0.1779	515	0.3535	549	0.5027

nm	mW	nm	mW	nm	mW	nm	mW	nm	mW
550	0.5034	599	0.8708	648	0.8769	697	0.3567	746	0.0919
551	0.5072	600	0.8742	649	0.8694	698	0.3495	747	0.0901
552	0.5131	601	0.8855	650	0.8597	699	0.3428	748	0.0884
553	0.5238	602	0.8963	651	0.8465	700	0.3321	749	0.0849
554	0.528	603	0.8957	652	0.8422	701	0.3259	750	0.0808
555	0.532	604	0.9078	653	0.8271	702	0.3166	751	0.0797
556	0.5344	605	0.9153	654	0.8202	703	0.3093	752	0.0768
557	0.5433	606	0.9245	655	0.8093	704	0.2999	753	0.0749
558	0.5466	607	0.9319	656	0.7983	705	0.2941	754	0.0728
559	0.5545	608	0.9404	657	0.7889	706	0.2844	755	0.0713
560	0.5561	609	0.9512	658	0.7808	707	0.2793	756	0.0698
561	0.5631	610	0.953	659	0.7652	708	0.2699	757	0.0664
562	0.5709	611	0.959	660	0.7559	709	0.2622	758	0.0648
563	0.5757	612	0.966	661	0.7431	710	0.2562	759	0.063
564	0.5823	613	0.9651	662	0.7282	711	0.2509	760	0.0609
565	0.5869	614	0.9697	663	0.727	712	0.2441	761	0.0608
566	0.5923	615	0.9769	664	0.7123	713	0.2385	762	0.0571
567	0.5991	616	0.9837	665	0.6978	714	0.2311	763	0.0572
568	0.6094	617	0.9907	666	0.6925	715	0.222	764	0.0555
569	0.6144	618	0.9822	667	0.6757	716	0.2165	765	0.053
570	0.62	619	0.9868	668	0.6672	717	0.2107	766	0.0518
571	0.6295	620	0.9937	669	0.6554	718	0.2077	767	0.0501
572	0.6376	621	0.9877	670	0.642	719	0.2017	768	0.0488
573	0.6471	622	0.9944	671	0.6267	720	0.1938	769	0.0469
574	0.6508	623	0.9935	672	0.6198	721	0.1884	770	0.0463
575	0.6551	624	0.9951	673	0.6053	722	0.1857	771	0.0442
576	0.6627	625	0.9854	674	0.5957	723	0.1797	772	0.0435
577	0.6724	626	0.9968	675	0.5856	724	0.1732	773	0.0411
578	0.6807	627	0.9896	676	0.573	725	0.1689	774	0.041
579	0.6871	628	0.991	677	0.5633	726	0.1647	775	0.0408
580	0.6949	629	0.9886	678	0.5494	727	0.1594	776	0.0395
581	0.7046	630	0.989	679	0.5391	728	0.1555	777	0.0371
582	0.7159	631	0.9799	680	0.5283	729	0.1521	778	0.0352
583	0.7201	632	0.9809	681	0.5206	730	0.1459	779	0.0358
584	0.7321	633	0.9873	682	0.5114	731	0.1438	780	0.0359
585	0.7422	634	0.9774	683	0.497	732	0.1397		
586	0.7471	635	0.9722	684	0.4863	733	0.1341		
587	0.7545	636	0.9622	685	0.4804	734	0.1315		
588	0.7649	637	0.9585	686	0.4665	735	0.1277		
589	0.777	638	0.9533	687	0.4561	736	0.1242		
590	0.7915	639	0.9461	688	0.4453	737	0.1199		
591	0.7916	640	0.9386	689	0.435	738	0.1154		
592	0.805	641	0.9332	690	0.4268	739	0.1137		
593	0.8149	642	0.9202	691	0.4157	740	0.1107		
594	0.8223	643	0.9141	692	0.4088	741	0.1069		
595	0.8323	644	0.9091	693	0.3979	742	0.1037		
596	0.8447	645	0.9063	694	0.3874	743	0.1006		
597	0.8513	646	0.8937	695	0.3766	744	0.0987		
598	0.8619	647	0.8857	696	0.3668	745	0.0951		

8. Goniophotometer Test results for LVFK40-0500W-L27-50-O-24-G(Vivoxy FLEX rail+shield)

8.1 Test Data

Test Ambient Temperature	25.2°C	Test orientation	Downward
Operate time(Min.)	90	stabilization time(Min.)	30

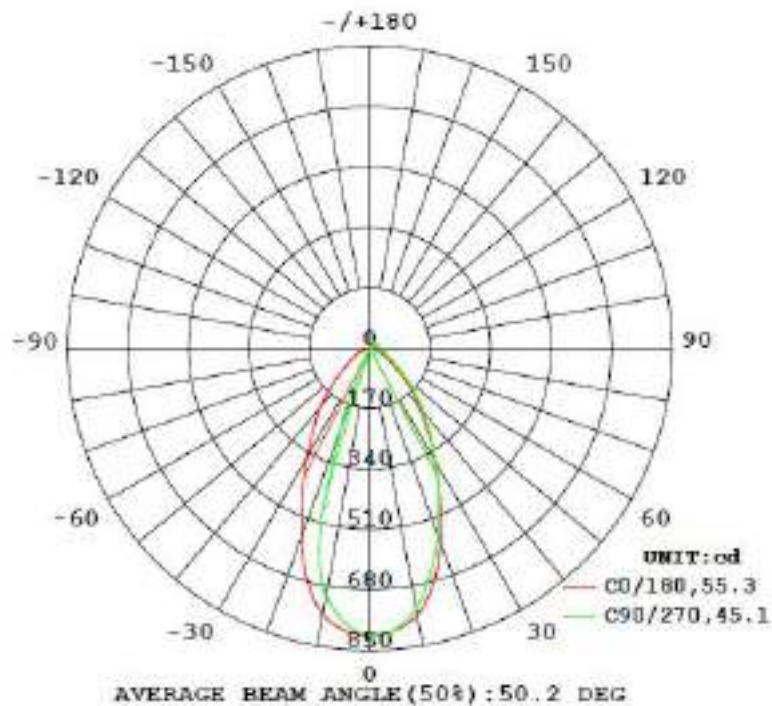
Electrical Measurement

Input Voltage (V)	Frequency (Hz)	Input Current(A)	Power Factor	Power(W)
24	--	0.527	1.0000	12.65

Optical Measurement

Luminous Flux (lm)	Efficacy(lm/W)	Imax (cd)	S/MH(C0/180)	S/MH(C90/270)
761.13	60.18	809.6	0.82	0.51

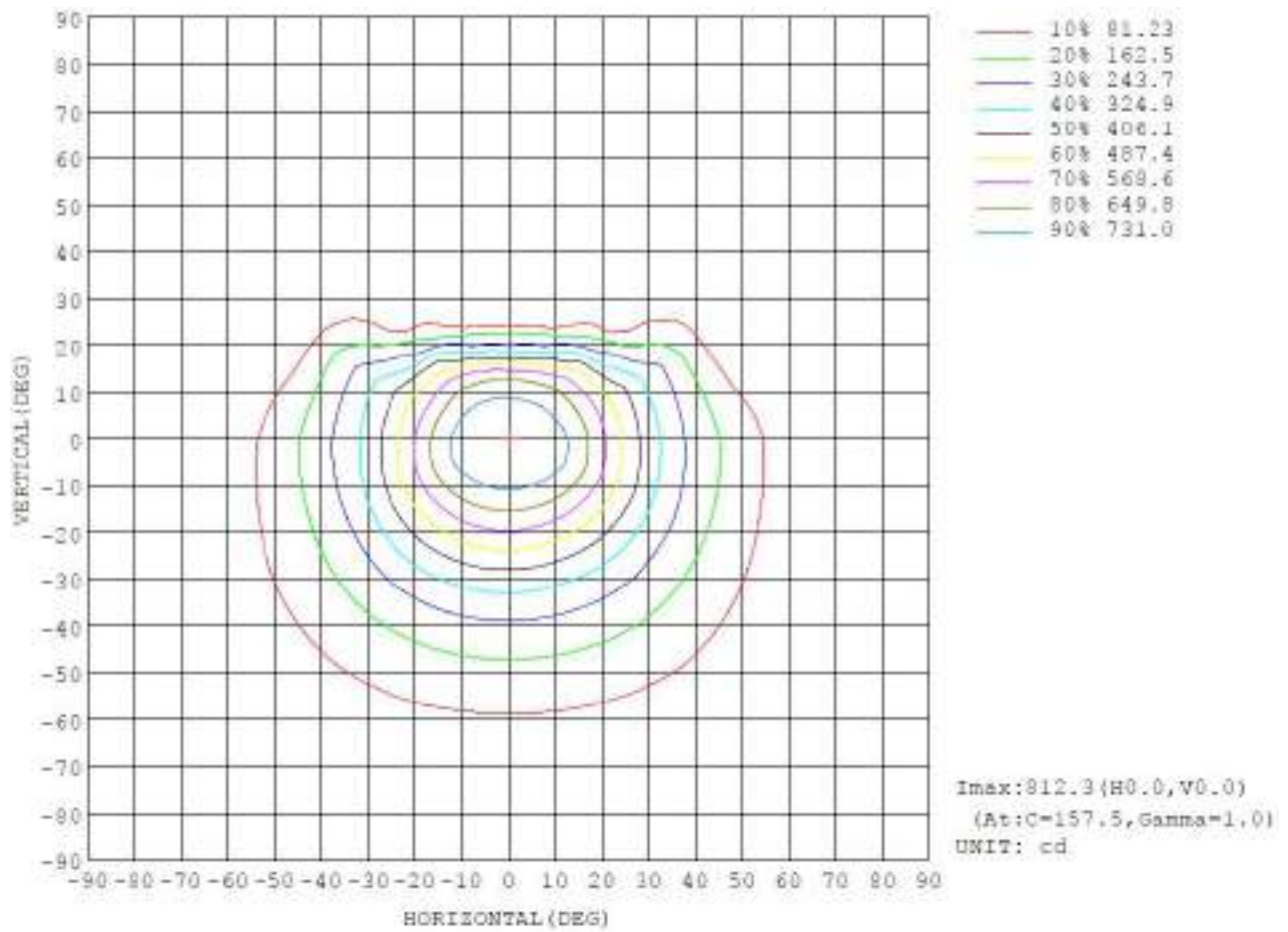
8.2 Luminous Intensity Distribution



8.3 Zonal Flux Diagram

Y	CM	C85	C90	C135	C180	C225	C270	C315	Y	# zone	# total	Wm,Comp
10	762.8	758.3	743.3	738.0	780.3	730.6	708.5	730.2	0- 10	74.13	74.13	8.78,8.74
20	584.1	578.4	562.9	576.9	562.7	488.1	248.8	506.2	10- 20	178.2	252.4	28.2,28.2
30	366.3	360.1	371.0	377.8	352.4	120.8	4.047	218.0	20- 30	170.8	423.2	53.6,53.6
40	219.8	232.8	231.9	227.8	235.4	2.367	1.228	9.288	30- 40	128.8	552.0	72.1,72.1
50	138.1	137.1	136.6	136.0	111.8	1.261	0	1.250	40- 50	86.26	638.3	23.1,23.1
60	53.13	72.58	75.79	70.49	96.50	0.1328	0	0.0188	50- 60	48.40	686.7	88.5,88.5
70	23.43	41.88	46.88	40.68	22.98	0	0	0	60- 70	28.24	709.8	93.2,93.2
80	0.003	24.96	32.12	18.20	0.012	0	0	0	70- 80	17.00	726.8	98.6,98.6
90	0.0028	19.42	29.51	18.87	0.4741	0	0	0	80- 90	20.88	737.6	96.9,96.9
100	0.0921	17.23	26.70	16.82	0	0	0	0	90-100	8.284	746.8	88.1,88.1
110	0.0488	18.13	28.96	19.26	0	0	0	0	100-110	7.888	754.8	99.1,99.1
120	0.0188	3.202	17.25	3.722	0	0	0	0	110-120	4.927	759.7	99.7,99.7
130	0.0921	0.4172	1.829	0.0382	0.0162	0.0297	0.0236	0.0092	120-130	1.688	761.4	99.9,99.9
140	0.1068	0.1877	0.0888	0.0671	0.2369	0.2524	0.2467	0.2196	130-140	0.2481	761.6	99.9,99.9
150	0.1088	0.1001	0.1327	0.1080	0.4582	0.5117	0.5194	0.4817	140-150	0.1588	761.8	100,100
160	0.1827	0.2684	0.2512	0.2081	0.6178	0.6638	0.7901	0.6792	150-160	0.1823	762.0	100,100
170	0.3928	0.3422	0.3166	0.2959	0.4288	0.4218	0.6562	0.6478	160-170	0.1942	762.1	100,100
180	0.5442	0.4964	0.4822	0.4726	0.5633	0.5114	0.4866	0.4668	170-180	0.0480	762.2	100,100
180	LIMITS OF INTENSITY:cd									UNIT:lm		

8.4 Isocandela Diagram



8.5 Luminous Distribution Intensity Data

Table--1

UNIT: cd

C (deg) (deg)	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5			
0	809	809	809	809	809	809	809	809	809	809	809	809	809	809	809	809			
5	799	801	799	797	796	797	800	802	799	792	787	782	778	780	785	793			
10	763	769	759	747	743	747	750	768	761	749	731	718	710	714	730	746			
15	689	699	680	661	658	664	680	696	680	650	637	586	544	580	645	666			
20	584	598	578	563	563	567	577	590	563	531	488	311	241	307	506	559			
25	469	488	476	463	463	467	472	476	451	424	277	97.6	49.9	88.6	285	443			
30	366	387	380	370	371	374	378	373	353	333	121	7.73	4.07	7.66	119	341			
35	283	299	299	294	295	296	296	289	278	256	11.6	2.68	1.96	2.63	11.2	262			
40	218	230	233	231	232	232	228	218	218	173	3.37	1.71	1.23	1.67	3.25	173			
45	166	174	180	181	182	181	176	165	159	89.5	1.98	0.33	0.00	0.28	1.79	86.4			
50	118	126	137	138	139	137	134	125	112	26.3	1.26	0.01	0.00	0.00	1.15	13.4			
55	76.9	83.3	100	101	102	101	97.7	85.3	73.2	11.6	0.23	0.00	0.00	0.00	0.68	4.39			
60	53.1	64.1	72.6	75.1	75.8	75.0	70.5	62.5	50.5	6.36	0.13	0.00	0.00	0.00	0.62	1.84			
65	35.5	47.2	54.1	57.3	58.4	57.2	52.4	45.6	34.1	3.31	0.04	0.00	0.00	0.00	0.00	1.30			
70	28.4	36.0	41.6	45.4	46.9	45.1	40.5	34.1	28.0	2.04	0.00	0.00	0.00	0.00	0.00	0.47			
75	14.2	25.7	32.1	36.1	37.6	35.9	31.5	24.9	14.5	1.19	0.00	0.00	0.00	0.00	0.00	0.21			
80	8.00	18.2	24.4	29.8	32.1	29.8	24.1	17.9	9.01	0.55	0.08	0.00	0.00	0.00	0.00	0.03			
85	3.14	12.5	20.3	27.6	30.5	27.5	20.2	12.4	3.36	0.12	0.08	0.00	0.00	0.00	0.00	0.00			
90	0.20	10.2	19.4	26.6	29.5	26.3	18.9	9.86	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
95	0.13	9.38	18.8	26.1	29.1	25.7	18.3	8.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
100	0.09	8.19	17.3	23.9	26.7	23.6	16.9	7.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
105	0.11	8.44	15.7	22.1	25.6	22.7	15.5	5.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
110	0.06	2.26	13.1	20.6	22.5	20.4	13.2	1.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
115	0.03	1.29	9.65	17.6	20.7	17.6	9.96	0.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
120	0.02	0.81	8.90	14.0	17.2	14.1	8.72	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
125	0.04	0.55	1.20	6.49	11.4	7.04	1.59	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
130	0.06	0.39	0.42	3.50	5.83	2.61	0.64	0.17	0.03	0.12	0.03	0.03	0.03	0.03	0.03	0.03			
135	0.06	0.13	0.24	0.34	0.80	0.32	0.29	0.34	0.10	0.28	0.13	0.12	0.13	0.11	0.10	0.10			
140	0.11	0.05	0.19	0.09	0.08	0.00	0.07	0.08	0.24	0.37	0.25	0.25	0.25	0.24	0.23	0.23			
145	0.15	0.11	0.20	0.13	0.06	0.04	0.06	0.07	0.58	0.43	0.39	0.38	0.39	0.38	0.37	0.37			
150	0.19	0.16	0.20	0.17	0.11	0.09	0.10	0.11	0.46	0.51	0.51	0.51	0.52	0.51	0.49	0.49			
155	0.25	0.22	0.21	0.23	0.19	0.16	0.16	0.17	0.55	0.59	0.61	0.63	0.63	0.63	0.61	0.60			
160	0.29	0.27	0.27	0.26	0.25	0.22	0.21	0.22	0.62	0.64	0.66	0.69	0.70	0.71	0.68	0.66			
165	0.34	0.31	0.30	0.29	0.28	0.25	0.24	0.26	0.63	0.63	0.65	0.68	0.69	0.71	0.68	0.66			
170	0.39	0.36	0.34	0.33	0.32	0.29	0.30	0.31	0.62	0.62	0.62	0.64	0.66	0.66	0.65	0.63			
175	0.46	0.43	0.40	0.39	0.37	0.36	0.38	0.39	0.59	0.59	0.58	0.58	0.58	0.59	0.57	0.56			
180	0.54	0.51	0.50	0.48	0.48	0.46	0.47	0.48	0.54	0.53	0.51	0.50	0.49	0.49	0.47	0.47			

9. Integrating Sphere Test Results for LVFK40-0500W-L27-50-O-24-G(Vivoxy FLEX rail+shield+louver)

9.1 Test Data

Test Ambient Temperature (Integrating sphere internal temperature)	25.1℃	Test orientation	Downward
Operate time(Min.)	30	stabilization time(Min.)	0

Optical and Electrical Measurement Result

Number	Time	Current (A)	Voltage (V)	Power (W)	Flux(lm)	x	y	u'	v'	CCT (K)	Ra
0	00h00m00s	0.5265	24	12.636	667.65	0.467	0.4081	0.2683	0.5275	2584	93.4
1	00h00m10s	0.527	24	12.648	666.5	0.4669	0.4079	0.2683	0.5274	2584	93.4
2	00h00m20s	0.5274	24	12.6576	666.1	0.467	0.4079	0.2684	0.5274	2582	93.3
3	00h00m30s	0.5277	24	12.6648	665.53	0.467	0.4077	0.2684	0.5273	2581	93.3
4	00h00m40s	0.528	24	12.672	665.13	0.4669	0.4076	0.2684	0.5273	2582	93.3
5	00h00m50s	0.5283	24	12.6792	664.72	0.467	0.4077	0.2685	0.5273	2581	93.3
6	00h01m00s	0.5286	24	12.6864	664.59	0.4669	0.4076	0.2684	0.5273	2582	93.3
7	00h01m10s	0.5288	24	12.6912	664.29	0.467	0.4075	0.2685	0.5273	2580	93.3
8	00h01m20s	0.529	24	12.696	664.25	0.4668	0.4076	0.2684	0.5272	2582	93.2
9	00h01m30s	0.5292	24	12.7008	663.8	0.4668	0.4075	0.2684	0.5272	2583	93.2
10	00h01m40s	0.5294	24	12.7056	663.57	0.4669	0.4075	0.2685	0.5272	2581	93.2
11	00h01m50s	0.5295	24	12.708	662.94	0.4668	0.4074	0.2685	0.5272	2581	93.2
12	00h02m00s	0.5297	24	12.7128	662.56	0.4668	0.4073	0.2685	0.5271	2581	93.2
13	00h02m10s	0.5298	24	12.7152	662.52	0.4669	0.4074	0.2685	0.5272	2581	93.2
14	00h02m20s	0.5299	24	12.7176	662.39	0.4668	0.4073	0.2685	0.5271	2582	93.2
15	00h02m30s	0.5301	24	12.7224	662.19	0.4668	0.4073	0.2685	0.5272	2580	93.2
16	00h02m40s	0.5302	24	12.7248	661.5	0.4668	0.4071	0.2686	0.5271	2579	93.2
17	00h02m50s	0.5303	24	12.7272	661.53	0.4667	0.4072	0.2685	0.5271	2581	93.2
18	00h03m00s	0.5305	24	12.732	661.29	0.4668	0.4072	0.2685	0.5271	2580	93.2
19	00h03m10s	0.5306	24	12.7344	661.13	0.4668	0.4072	0.2686	0.5271	2579	93.2
20	00h03m20s	0.5307	24	12.7368	660.69	0.4668	0.4072	0.2685	0.5271	2580	93.2
21	00h03m30s	0.5308	24	12.7392	660.63	0.4668	0.407	0.2686	0.527	2579	93.2
22	00h03m40s	0.5309	24	12.7416	660.75	0.4668	0.4071	0.2686	0.5271	2580	93.1
23	00h03m50s	0.531	24	12.744	660.1	0.4668	0.4071	0.2686	0.5271	2579	93.2

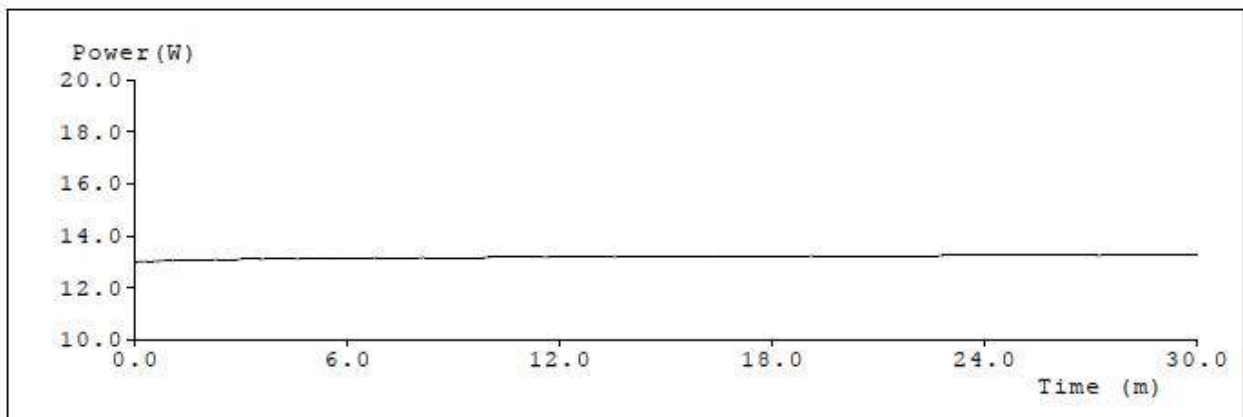
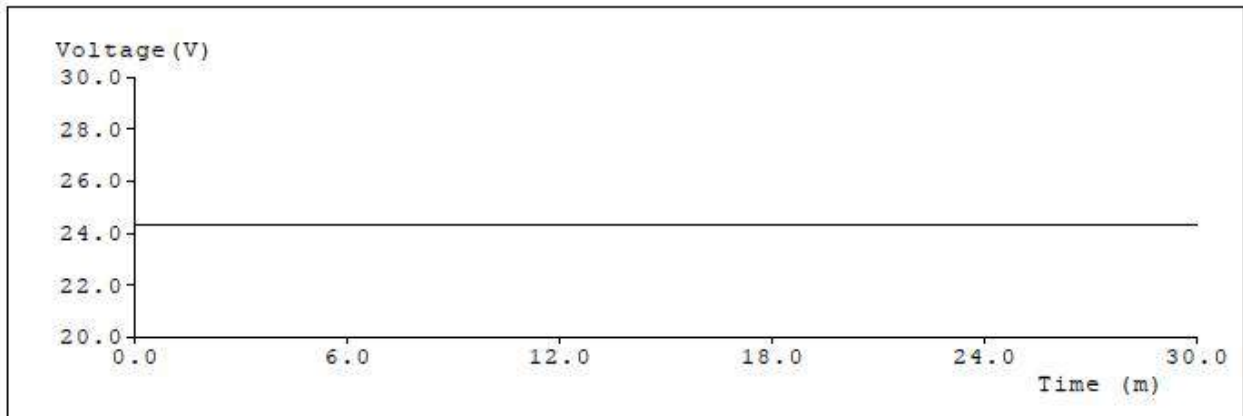
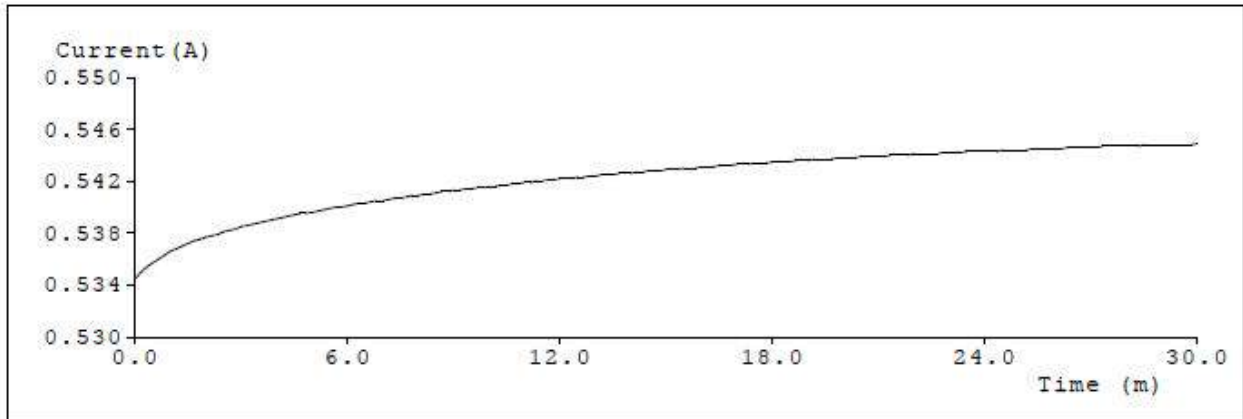
24	00h04m00s	0.5311	24	12.7464	660.17	0.4668	0.4071	0.2686	0.5271	2579	93.2
25	00h04m10s	0.5312	24	12.7488	659.76	0.4669	0.4071	0.2687	0.5271	2578	93.2
26	00h04m20s	0.5313	24	12.7512	659.78	0.4667	0.4071	0.2685	0.5271	2580	93.2
27	00h04m30s	0.5314	24	12.7536	659.5	0.4668	0.4071	0.2686	0.527	2579	93.1
28	00h04m40s	0.5315	24	12.756	659.32	0.4667	0.4071	0.2686	0.527	2579	93.1
29	00h04m50s	0.5315	24	12.756	659.3	0.4667	0.407	0.2686	0.527	2579	93.1
30	00h05m00s	0.5316	24	12.7584	659.02	0.4667	0.4069	0.2686	0.527	2579	93.1
31	00h05m10s	0.5317	24	12.7608	658.59	0.4669	0.407	0.2687	0.527	2577	93.1
32	00h05m20s	0.5318	24	12.7632	658.5	0.4668	0.407	0.2686	0.527	2578	93.2
33	00h05m30s	0.5319	24	12.7656	658.39	0.4669	0.4069	0.2687	0.527	2577	93.1
34	00h05m40s	0.532	24	12.768	658.17	0.4669	0.4071	0.2687	0.5271	2577	93.1
35	00h05m50s	0.532	24	12.768	658.16	0.4668	0.407	0.2687	0.527	2578	93.1
36	00h06m00s	0.5321	24	12.7704	658.08	0.4668	0.4069	0.2687	0.527	2578	93.1
37	00h06m10s	0.5322	24	12.7728	657.81	0.4667	0.4069	0.2686	0.527	2579	93.1
38	00h06m20s	0.5323	24	12.7752	657.66	0.4668	0.4068	0.2687	0.527	2577	93.1
39	00h06m30s	0.5323	24	12.7752	657.26	0.4668	0.4068	0.2687	0.5269	2577	93.1
40	00h06m40s	0.5324	24	12.7776	657.42	0.4667	0.4069	0.2686	0.527	2579	93.1
41	00h06m50s	0.5325	24	12.78	657.31	0.4667	0.4068	0.2686	0.5269	2579	93.1
42	00h07m00s	0.5325	24	12.78	657.22	0.4668	0.4068	0.2687	0.5269	2577	93.1
43	00h07m10s	0.5326	24	12.7824	656.79	0.4669	0.4068	0.2688	0.527	2576	93
44	00h07m20s	0.5327	24	12.7848	656.85	0.4668	0.4068	0.2687	0.527	2577	93.1
45	00h07m30s	0.5327	24	12.7848	656.64	0.4668	0.4068	0.2687	0.5269	2577	93.1
46	00h07m40s	0.5328	24	12.7872	656.54	0.4668	0.4068	0.2688	0.5269	2577	93.1
47	00h07m50s	0.5329	24	12.7896	656.3	0.4667	0.4068	0.2687	0.5269	2578	93.1
48	00h08m00s	0.5329	24	12.7896	655.98	0.4668	0.4067	0.2688	0.5269	2576	93.1
49	00h08m10s	0.533	24	12.792	656.21	0.4667	0.4068	0.2687	0.5269	2578	93
50	00h08m20s	0.533	24	12.792	656.08	0.4668	0.4068	0.2687	0.527	2577	93.1
51	00h08m30s	0.5331	24	12.7944	655.92	0.4667	0.4066	0.2688	0.5269	2576	93
52	00h08m40s	0.5332	24	12.7968	655.54	0.4668	0.4066	0.2689	0.5269	2575	93
53	00h08m50s	0.5332	24	12.7968	655.72	0.4668	0.4067	0.2688	0.5269	2576	93
54	00h09m00s	0.5333	24	12.7992	655.28	0.4668	0.4068	0.2688	0.5269	2576	93.1
55	00h09m10s	0.5333	24	12.7992	655.36	0.4669	0.4068	0.2688	0.527	2576	93.1
56	00h09m20s	0.5334	24	12.8016	655.07	0.4667	0.4066	0.2687	0.5269	2577	93

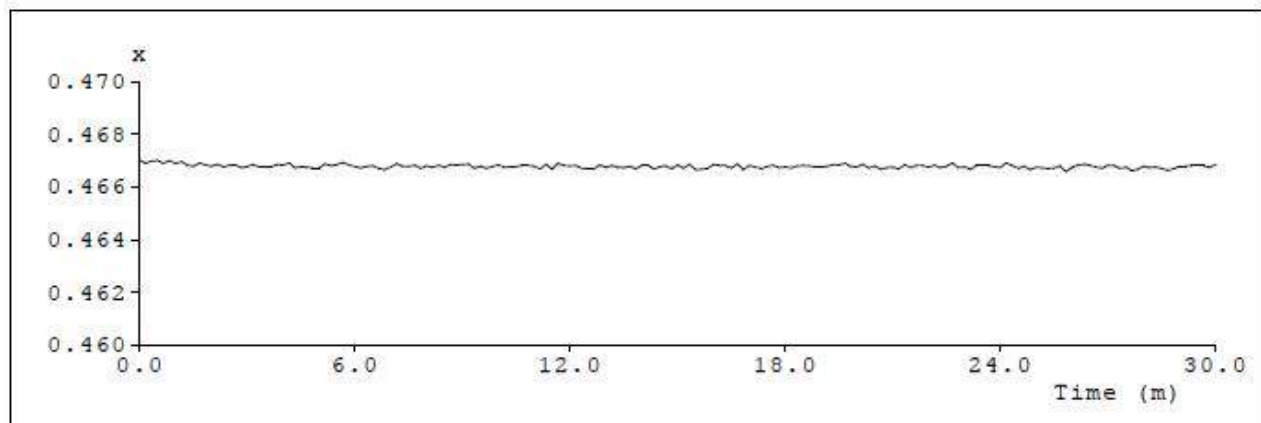
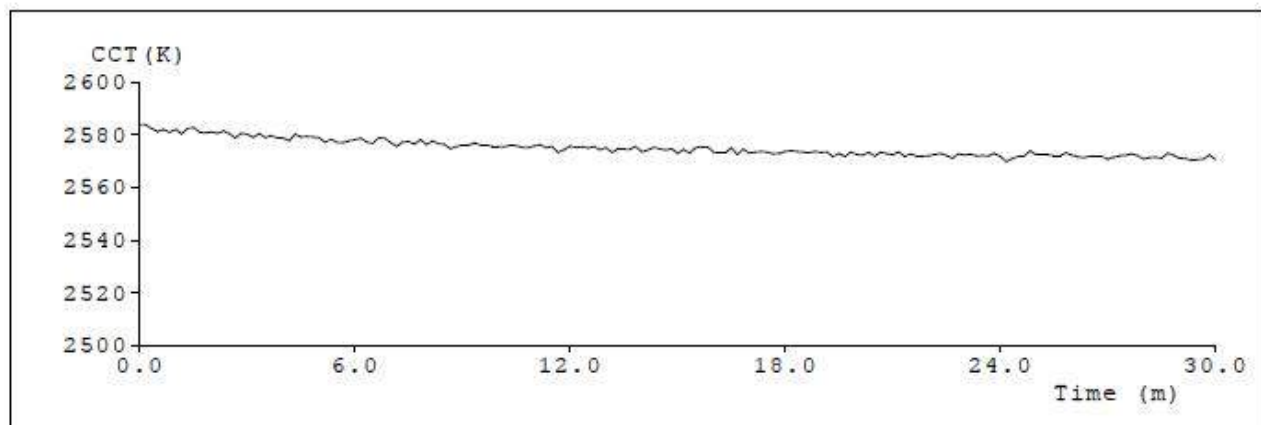
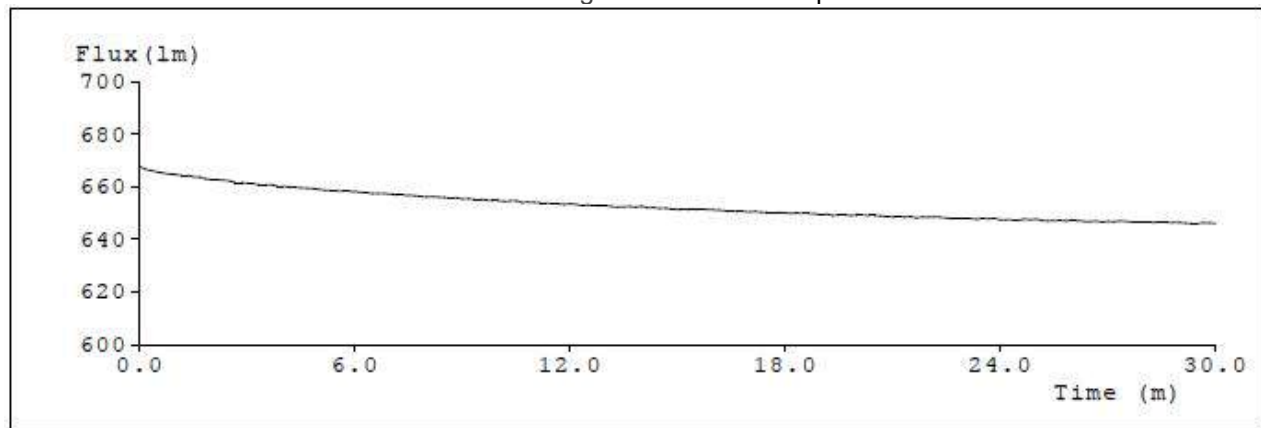
57	00h09m30s	0.5334	24	12.8016	655.12	0.4668	0.4067	0.2688	0.5269	2576	93.1
58	00h09m40s	0.5335	24	12.804	654.9	0.4667	0.4065	0.2688	0.5268	2576	93
59	00h09m50s	0.5335	24	12.804	654.67	0.4668	0.4066	0.2688	0.5269	2576	93
60	00h10m00s	0.5336	24	12.8064	654.59	0.4668	0.4067	0.2688	0.5269	2576	93
61	00h10m10s	0.5336	24	12.8064	654.42	0.4667	0.4065	0.2688	0.5268	2575	93
62	00h10m20s	0.5337	24	12.8088	654.53	0.4668	0.4066	0.2688	0.5269	2576	93
63	00h10m30s	0.5337	24	12.8088	654.58	0.4668	0.4066	0.2688	0.5269	2576	93
64	00h10m40s	0.5338	24	12.8112	653.87	0.4668	0.4066	0.2688	0.5269	2575	93
65	00h10m50s	0.5338	24	12.8112	654.15	0.4668	0.4066	0.2688	0.5269	2575	93
66	00h11m00s	0.5339	24	12.8136	654.01	0.4668	0.4066	0.2688	0.5269	2576	93
67	00h11m10s	0.5339	24	12.8136	653.83	0.4667	0.4065	0.2688	0.5268	2576	93
68	00h11m20s	0.534	24	12.816	653.8	0.4669	0.4067	0.2688	0.5269	2575	93
69	00h11m30s	0.534	24	12.816	653.45	0.4667	0.4064	0.2688	0.5268	2576	93
70	00h11m40s	0.5341	24	12.8184	653.45	0.4669	0.4065	0.2689	0.5269	2573	93
71	00h11m50s	0.5341	24	12.8184	653.22	0.4668	0.4065	0.2689	0.5268	2574	93
72	00h12m00s	0.5342	24	12.8208	653.46	0.4668	0.4066	0.2688	0.5269	2576	93
73	00h12m10s	0.5342	24	12.8208	653.18	0.4668	0.4066	0.2688	0.5269	2575	93
74	00h12m20s	0.5342	24	12.8208	652.84	0.4667	0.4065	0.2688	0.5268	2575	93
75	00h12m30s	0.5343	24	12.8232	652.99	0.4667	0.4064	0.2689	0.5268	2575	93
76	00h12m40s	0.5343	24	12.8232	652.87	0.4667	0.4064	0.2688	0.5268	2576	93
77	00h12m50s	0.5344	24	12.8256	652.7	0.4668	0.4065	0.2689	0.5268	2574	93
78	00h13m00s	0.5344	24	12.8256	652.73	0.4667	0.4065	0.2689	0.5268	2575	93
79	00h13m10s	0.5345	24	12.828	652.41	0.4668	0.4064	0.2689	0.5268	2573	93
80	00h13m20s	0.5345	24	12.828	652.23	0.4668	0.4064	0.2689	0.5268	2575	92.9
81	00h13m30s	0.5345	24	12.828	652.28	0.4667	0.4064	0.2689	0.5268	2575	93
82	00h13m40s	0.5346	24	12.8304	652.48	0.4668	0.4065	0.2689	0.5268	2574	93
83	00h13m50s	0.5346	24	12.8304	652.2	0.4667	0.4065	0.2688	0.5268	2576	93
84	00h14m00s	0.5346	24	12.8304	652.52	0.4668	0.4064	0.2689	0.5268	2574	92.9
85	00h14m10s	0.5347	24	12.8328	651.97	0.4668	0.4065	0.2689	0.5268	2574	93
86	00h14m20s	0.5347	24	12.8328	652.07	0.4667	0.4064	0.2689	0.5268	2575	93
87	00h14m30s	0.5348	24	12.8352	651.72	0.4668	0.4064	0.2689	0.5268	2575	93
88	00h14m40s	0.5348	24	12.8352	651.75	0.4668	0.4064	0.2689	0.5268	2574	93
89	00h14m50s	0.5348	24	12.8352	651.4	0.4667	0.4063	0.2689	0.5267	2575	93

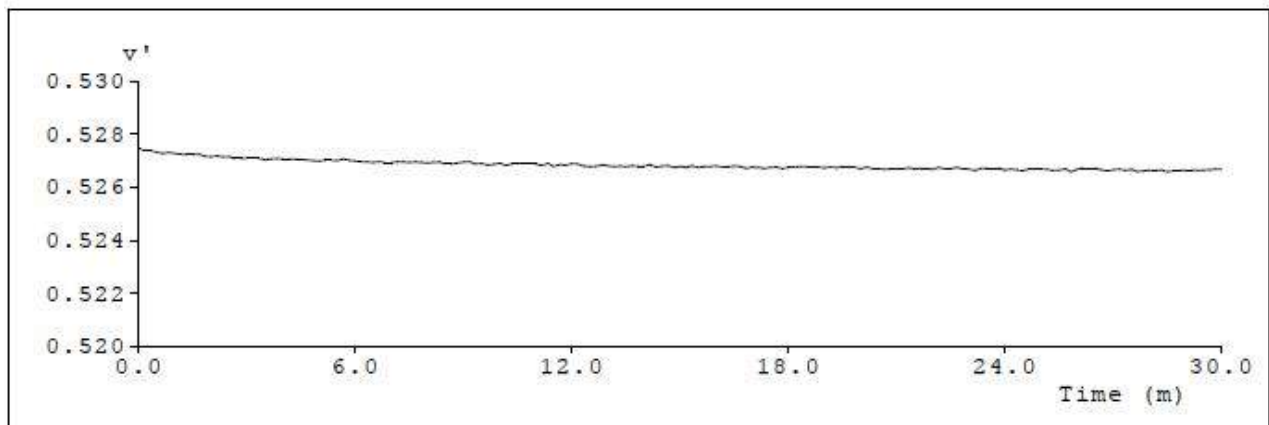
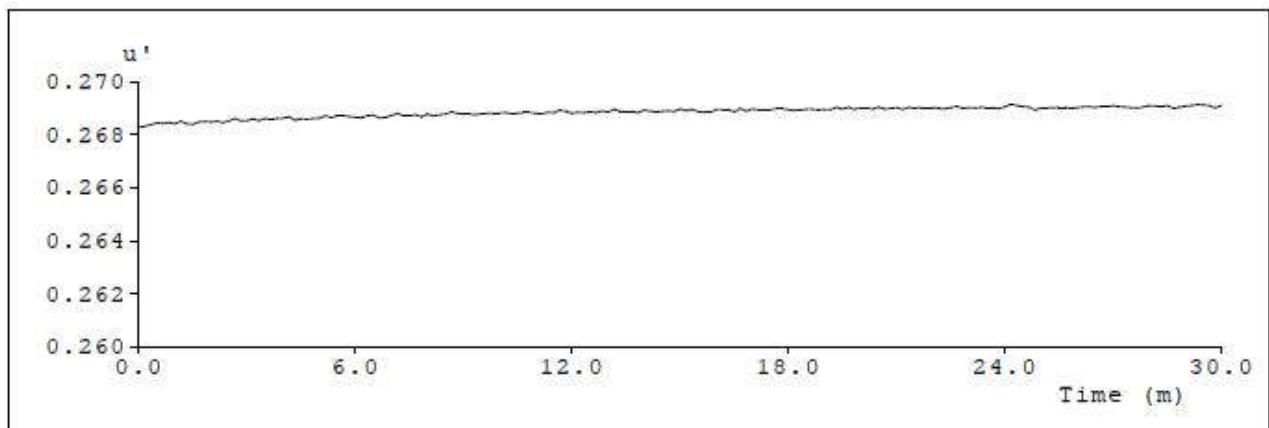
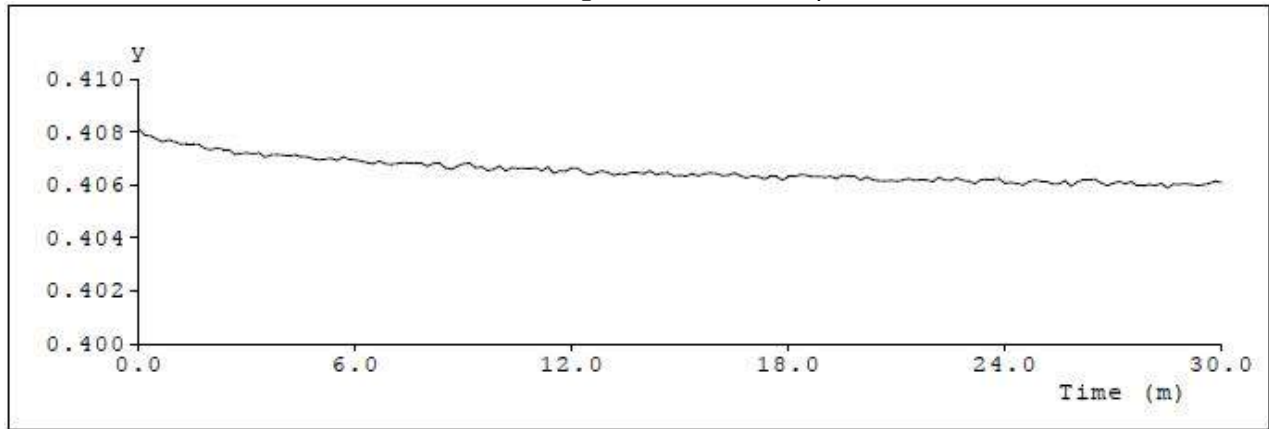
90	00h15m00s	0.5349	24	12.8376	651.27	0.4668	0.4064	0.269	0.5268	2573	92.9
91	00h15m10s	0.5349	24	12.8376	651.43	0.4667	0.4063	0.2689	0.5267	2574	93
92	00h15m20s	0.5349	24	12.8376	651.29	0.4669	0.4064	0.269	0.5268	2573	92.9
93	00h15m30s	0.535	24	12.84	651.32	0.4667	0.4063	0.2689	0.5267	2575	92.9
94	00h15m40s	0.535	24	12.84	651.44	0.4667	0.4064	0.2688	0.5268	2575	93
95	00h15m50s	0.535	24	12.84	651.23	0.4667	0.4064	0.2688	0.5268	2575	93
96	00h16m00s	0.5351	24	12.8424	651.13	0.4668	0.4064	0.2689	0.5268	2573	92.9
97	00h16m10s	0.5351	24	12.8424	650.98	0.4668	0.4064	0.269	0.5268	2573	92.9
98	00h16m20s	0.5351	24	12.8424	650.77	0.4668	0.4064	0.269	0.5268	2573	92.9
99	00h16m30s	0.5352	24	12.8448	650.71	0.4667	0.4065	0.2689	0.5268	2575	92.9
100	00h16m40s	0.5352	24	12.8448	650.51	0.4669	0.4063	0.269	0.5268	2572	93
101	00h16m50s	0.5352	24	12.8448	650.55	0.4667	0.4063	0.2689	0.5267	2575	92.9
102	00h17m00s	0.5353	24	12.8472	650.37	0.4668	0.4063	0.269	0.5268	2573	92.9
103	00h17m10s	0.5353	24	12.8472	650.56	0.4668	0.4063	0.2689	0.5267	2573	92.9
104	00h17m20s	0.5353	24	12.8472	650.22	0.4667	0.4062	0.2689	0.5267	2574	92.9
105	00h17m30s	0.5354	24	12.8496	650.14	0.4668	0.4063	0.2689	0.5268	2573	93
106	00h17m40s	0.5354	24	12.8496	650.08	0.4668	0.4063	0.269	0.5268	2573	92.9
107	00h17m50s	0.5354	24	12.8496	650.09	0.4667	0.4062	0.269	0.5267	2573	92.9
108	00h18m00s	0.5355	24	12.852	649.98	0.4668	0.4063	0.2689	0.5267	2574	92.9
109	00h18m10s	0.5355	24	12.852	649.68	0.4667	0.4063	0.2689	0.5267	2574	92.9
110	00h18m20s	0.5355	24	12.852	650	0.4668	0.4064	0.2689	0.5268	2574	92.9
111	00h18m30s	0.5355	24	12.852	649.77	0.4668	0.4064	0.2689	0.5268	2573	92.9
112	00h18m40s	0.5356	24	12.8544	649.73	0.4668	0.4063	0.269	0.5268	2573	92.9
113	00h18m50s	0.5356	24	12.8544	649.64	0.4668	0.4063	0.2689	0.5268	2574	92.9
114	00h19m00s	0.5356	24	12.8544	649.22	0.4668	0.4063	0.269	0.5267	2573	92.9
115	00h19m10s	0.5357	24	12.8568	649.45	0.4668	0.4063	0.2689	0.5268	2573	92.9
116	00h19m20s	0.5357	24	12.8568	648.98	0.4668	0.4062	0.269	0.5267	2572	92.9
117	00h19m30s	0.5357	24	12.8568	649.27	0.4668	0.4064	0.269	0.5268	2573	92.9
118	00h19m40s	0.5357	24	12.8568	649.26	0.4669	0.4063	0.269	0.5268	2572	92.9
119	00h19m50s	0.5358	24	12.8592	649.03	0.4668	0.4063	0.2689	0.5268	2573	92.9
120	00h20m00s	0.5358	24	12.8592	649.04	0.4668	0.4062	0.269	0.5267	2573	92.9
121	00h20m10s	0.5358	24	12.8592	649.08	0.4669	0.4063	0.269	0.5268	2572	92.9
122	00h20m20s	0.5358	24	12.8592	648.92	0.4667	0.4062	0.269	0.5267	2573	92.9

123	00h20m30s	0.5359	24	12.8616	648.95	0.4668	0.4062	0.269	0.5267	2572	92.9
124	00h20m40s	0.5359	24	12.8616	648.79	0.4667	0.4061	0.269	0.5267	2573	92.9
125	00h20m50s	0.5359	24	12.8616	648.58	0.4667	0.4062	0.269	0.5267	2573	92.9
126	00h21m00s	0.5359	24	12.8616	648.43	0.4667	0.4061	0.269	0.5267	2572	92.9
127	00h21m10s	0.5359	24	12.8616	648.74	0.4667	0.4062	0.269	0.5267	2574	92.9
128	00h21m20s	0.536	24	12.864	648.39	0.4668	0.4062	0.269	0.5267	2572	92.9
129	00h21m30s	0.536	24	12.864	648.55	0.4667	0.4062	0.269	0.5267	2573	92.9
130	00h21m40s	0.536	24	12.864	648.1	0.4668	0.4062	0.269	0.5267	2572	92.9
131	00h21m50s	0.536	24	12.864	648.45	0.4668	0.4062	0.269	0.5267	2572	92.9
132	00h22m00s	0.5361	24	12.8664	648.35	0.4668	0.4061	0.269	0.5267	2572	92.9
133	00h22m10s	0.5361	24	12.8664	648.46	0.4668	0.4063	0.269	0.5267	2573	92.9
134	00h22m20s	0.5361	24	12.8664	648.33	0.4667	0.4062	0.269	0.5267	2573	92.9
135	00h22m30s	0.5361	24	12.8664	648.05	0.4668	0.4062	0.269	0.5267	2572	92.9
136	00h22m40s	0.5361	24	12.8664	647.86	0.4669	0.4063	0.2691	0.5267	2571	92.9
137	00h22m50s	0.5362	24	12.8688	647.89	0.4667	0.4062	0.269	0.5267	2573	92.9
138	00h23m00s	0.5362	24	12.8688	647.91	0.4668	0.4061	0.269	0.5267	2572	92.9
139	00h23m10s	0.5362	24	12.8688	647.75	0.4667	0.406	0.269	0.5266	2573	92.9
140	00h23m20s	0.5362	24	12.8688	647.59	0.4668	0.4062	0.269	0.5267	2572	92.9
141	00h23m30s	0.5363	24	12.8712	647.93	0.4668	0.4062	0.269	0.5267	2572	92.9
142	00h23m40s	0.5363	24	12.8712	647.73	0.4668	0.4062	0.269	0.5267	2572	92.9
143	00h23m50s	0.5363	24	12.8712	647.92	0.4668	0.4062	0.269	0.5267	2573	92.9
144	00h24m00s	0.5363	24	12.8712	647.35	0.4667	0.4061	0.2691	0.5266	2572	92.8
145	00h24m10s	0.5363	24	12.8712	647.41	0.4669	0.4061	0.2691	0.5267	2570	92.8
146	00h24m20s	0.5363	24	12.8712	647.32	0.4668	0.4061	0.2691	0.5267	2571	92.9
147	00h24m30s	0.5364	24	12.8736	647.24	0.4667	0.406	0.2691	0.5266	2572	92.9
148	00h24m40s	0.5364	24	12.8736	647.53	0.4668	0.4061	0.269	0.5267	2572	92.8
149	00h24m50s	0.5364	24	12.8736	647.44	0.4667	0.4062	0.2689	0.5267	2574	92.9
150	00h25m00s	0.5364	24	12.8736	647.59	0.4667	0.4061	0.269	0.5267	2572	92.9
151	00h25m10s	0.5364	24	12.8736	647.18	0.4667	0.4061	0.269	0.5267	2572	92.9
152	00h25m20s	0.5365	24	12.876	646.87	0.4667	0.406	0.269	0.5266	2572	92.9
153	00h25m30s	0.5365	24	12.876	647.06	0.4667	0.406	0.269	0.5266	2572	92.8
154	00h25m40s	0.5365	24	12.876	647.2	0.4668	0.4062	0.269	0.5267	2572	92.8
155	00h25m50s	0.5365	24	12.876	646.88	0.4666	0.406	0.269	0.5266	2573	92.9

156	00h26m00s	0.5365	24	12.876	647.28	0.4667	0.4061	0.269	0.5267	2572	92.9
157	00h26m10s	0.5365	24	12.876	647.01	0.4668	0.4062	0.269	0.5267	2572	92.9
158	00h26m20s	0.5366	24	12.8784	646.84	0.4669	0.4062	0.2691	0.5267	2571	92.9
159	00h26m30s	0.5366	24	12.8784	646.69	0.4668	0.4062	0.269	0.5267	2572	92.8
160	00h26m40s	0.5366	24	12.8784	646.92	0.4668	0.4061	0.2691	0.5267	2572	92.8
161	00h26m50s	0.5366	24	12.8784	646.54	0.4667	0.406	0.2691	0.5266	2572	92.9
162	00h27m00s	0.5366	24	12.8784	646.73	0.4668	0.4061	0.2691	0.5267	2571	92.8
163	00h27m10s	0.5366	24	12.8784	646.71	0.4668	0.4061	0.2691	0.5267	2571	92.9
164	00h27m20s	0.5367	24	12.8808	646.88	0.4667	0.406	0.269	0.5266	2572	92.8
165	00h27m30s	0.5367	24	12.8808	646.73	0.4667	0.4061	0.269	0.5267	2572	92.8
166	00h27m40s	0.5367	24	12.8808	646.54	0.4666	0.406	0.269	0.5266	2573	92.9
167	00h27m50s	0.5367	24	12.8808	646.5	0.4667	0.406	0.269	0.5266	2572	92.8
168	00h28m00s	0.5367	24	12.8808	646.5	0.4668	0.406	0.2691	0.5266	2571	92.8
169	00h28m10s	0.5367	24	12.8808	646.49	0.4667	0.406	0.2691	0.5266	2571	92.8
170	00h28m20s	0.5367	24	12.8808	646.3	0.4668	0.4061	0.2691	0.5266	2572	92.8
171	00h28m30s	0.5368	24	12.8832	646.24	0.4667	0.4059	0.2691	0.5266	2571	92.8
172	00h28m40s	0.5368	24	12.8832	646.32	0.4666	0.406	0.269	0.5266	2573	92.8
173	00h28m50s	0.5368	24	12.8832	646.44	0.4667	0.406	0.269	0.5266	2572	92.8
174	00h29m00s	0.5368	24	12.8832	646.3	0.4668	0.406	0.2691	0.5266	2571	92.9
175	00h29m10s	0.5368	24	12.8832	646.19	0.4668	0.406	0.2691	0.5266	2571	92.8
176	00h29m20s	0.5368	24	12.8832	645.91	0.4668	0.406	0.2691	0.5266	2570	92.8
177	00h29m30s	0.5368	24	12.8832	645.92	0.4668	0.406	0.2691	0.5266	2571	92.8
178	00h29m40s	0.5368	24	12.8832	646.28	0.4668	0.4061	0.2691	0.5267	2571	92.8
179	00h29m50s	0.5368	24	12.8832	646.09	0.4667	0.4061	0.269	0.5267	2572	92.8
180	00h30m00s	0.5369	24	12.8856	646.07	0.4668	0.4061	0.2691	0.5267	2571	92.8

Test curves





*9.2 ANSI/IES TM-30-18 Color Rendition Report

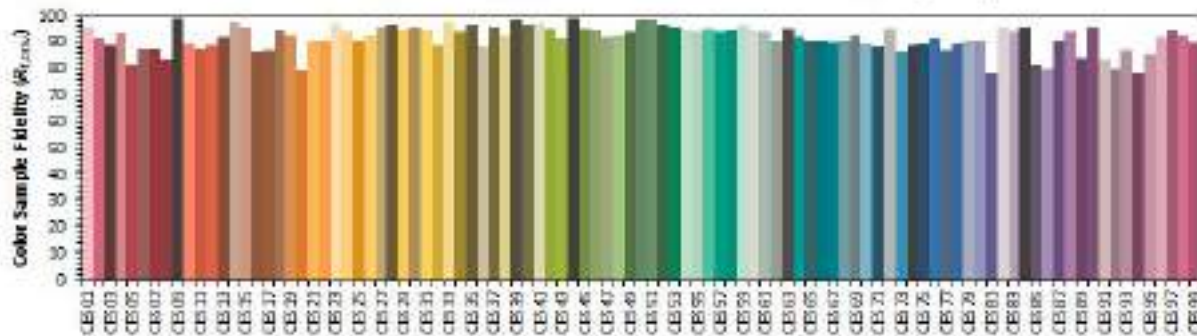
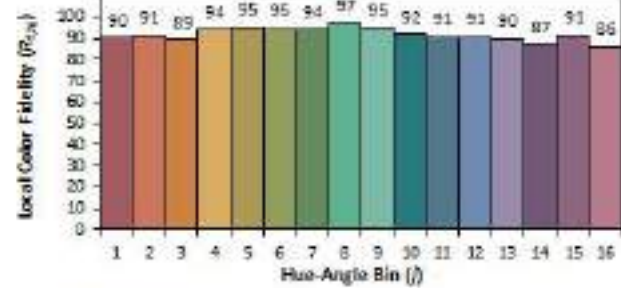
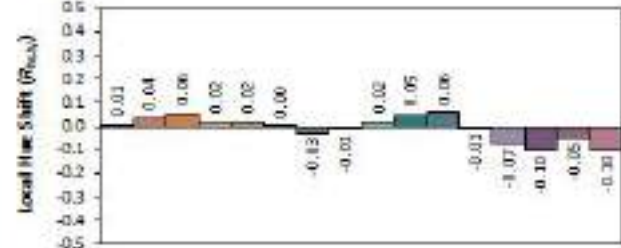
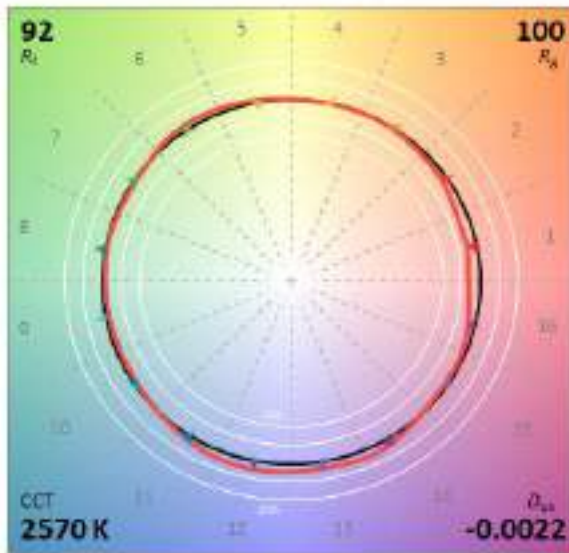
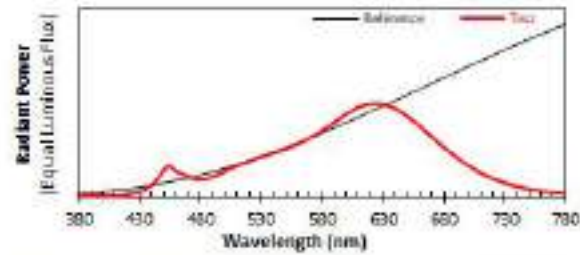
ANSI/IES TM-30-18 Color Rendition Report

Source:

Manufacturer: Guangdong Lunanhub Technology Co., Ltd

Date: 2025/3/19

Model: LVPF40-0500V-L27-50-0-24-C (Vivoxyl FLEX rail+shield+louver)



Notes: This is a recommended method for displaying ANSI/IES TM-30-18 information.

x 0.4669

y 0.4059

u' 0.2692

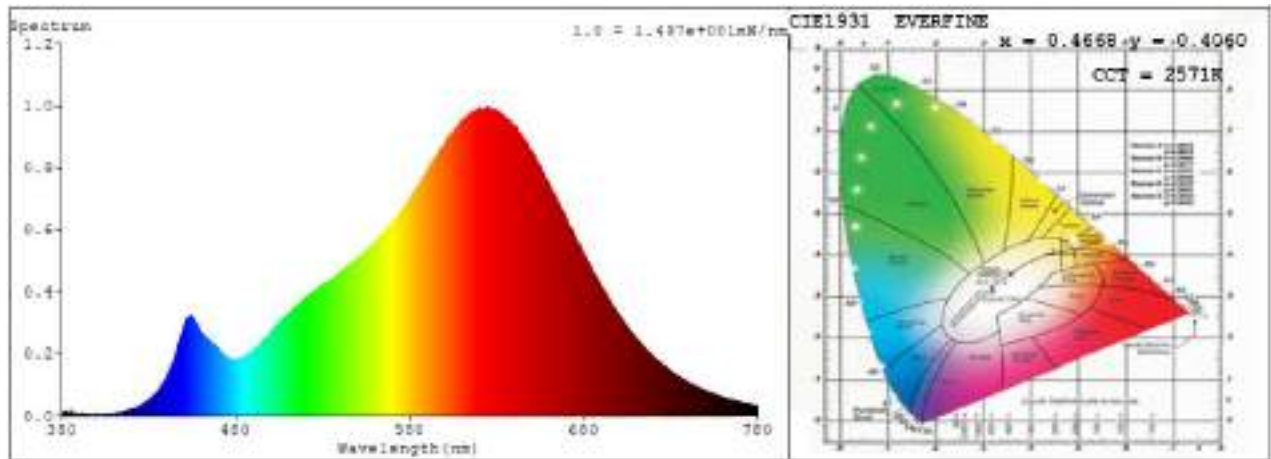
v' 0.5266

CIE 13.3-1995 (CRI)

R_a 93R_g 58

Colors are for visual orientation purposes only. Created with the ANSI/IES TM-30-18 Calculator Version 2.00.

9.3 Relative Spectral Power Distribution



nm	mW	nm	mW	nm	mW	nm	mW	nm	mW
380	0.0019	414	0.0115	448	0.2445	482	0.1821	516	0.3571
381	0.0057	415	0.0136	449	0.2654	483	0.1825	517	0.361
382	0.0097	416	0.0146	450	0.2816	484	0.1886	518	0.3667
383	0.0051	417	0.0152	451	0.2943	485	0.1918	519	0.3718
384	0.0105	418	0.0182	452	0.3095	486	0.1946	520	0.3771
385	0.0124	419	0.0208	453	0.3203	487	0.196	521	0.3786
386	0.0074	420	0.0217	454	0.3211	488	0.2007	522	0.3877
387	0.0035	421	0.0228	455	0.3182	489	0.2067	523	0.3919
388	0.0072	422	0.0267	456	0.3122	490	0.211	524	0.3939
389	0.0038	423	0.028	457	0.3001	491	0.2173	525	0.3994
390	0.0033	424	0.0307	458	0.2946	492	0.2189	526	0.4048
391	0.0083	425	0.0336	459	0.281	493	0.225	527	0.408
392	0.0115	426	0.0353	460	0.2728	494	0.2343	528	0.4165
393	0.0061	427	0.0392	461	0.2653	495	0.2406	529	0.4144
394	0.0056	428	0.045	462	0.2566	496	0.2434	530	0.4227
395	0.004	429	0.0479	463	0.2528	497	0.249	531	0.4272
396	0.008	430	0.0492	464	0.2471	498	0.253	532	0.4284
397	0.0044	431	0.0587	465	0.2406	499	0.2611	533	0.4302
398	0.0039	432	0.0595	466	0.2352	500	0.2676	534	0.436
399	0.0046	433	0.0626	467	0.2331	501	0.2781	535	0.4408
400	0.0026	434	0.0724	468	0.2257	502	0.2805	536	0.4451
401	0.0059	435	0.0792	469	0.221	503	0.2907	537	0.4487
402	0.0047	436	0.0861	470	0.2198	504	0.2957	538	0.4539
403	0.0069	437	0.0907	471	0.2096	505	0.3006	539	0.4574
404	0.0059	438	0.0996	472	0.2022	506	0.3063	540	0.4648
405	0.0059	439	0.1123	473	0.1977	507	0.3101	541	0.4674
406	0.0054	440	0.1209	474	0.193	508	0.3161	542	0.4718
407	0.0051	441	0.1347	475	0.1877	509	0.3232	543	0.4743
408	0.0078	442	0.1447	476	0.1827	510	0.33	544	0.4794
409	0.0087	443	0.1614	477	0.1816	511	0.3286	545	0.4788
410	0.0092	444	0.1745	478	0.1839	512	0.3379	546	0.4894
411	0.0097	445	0.1944	479	0.1824	513	0.3435	547	0.4923
412	0.0106	446	0.2093	480	0.1792	514	0.3445	548	0.4953
413	0.011	447	0.2262	481	0.1805	515	0.354	549	0.5006

nm	mW	nm	mW	nm	mW	nm	mW	nm	mW
550	0.5047	599	0.8711	648	0.8764	697	0.3554	746	0.0919
551	0.5113	600	0.8746	649	0.8635	698	0.3475	747	0.0897
552	0.5155	601	0.885	650	0.8524	699	0.3363	748	0.0864
553	0.5235	602	0.8941	651	0.8457	700	0.3281	749	0.0846
554	0.5282	603	0.8992	652	0.8414	701	0.3237	750	0.0814
555	0.5348	604	0.9043	653	0.8225	702	0.3146	751	0.0791
556	0.5383	605	0.911	654	0.8141	703	0.3083	752	0.0767
557	0.5473	606	0.9245	655	0.8053	704	0.2977	753	0.0738
558	0.5505	607	0.9285	656	0.7965	705	0.2913	754	0.0719
559	0.5544	608	0.9357	657	0.7842	706	0.2831	755	0.0705
560	0.5558	609	0.9532	658	0.7735	707	0.2726	756	0.0683
561	0.5644	610	0.9502	659	0.7641	708	0.2676	757	0.067
562	0.573	611	0.9575	660	0.7576	709	0.2615	758	0.0643
563	0.576	612	0.9583	661	0.7399	710	0.2541	759	0.0633
564	0.5843	613	0.9628	662	0.7272	711	0.248	760	0.0612
565	0.5934	614	0.9681	663	0.7238	712	0.243	761	0.0591
566	0.5935	615	0.9782	664	0.7065	713	0.2342	762	0.0576
567	0.6036	616	0.9763	665	0.6941	714	0.2271	763	0.0548
568	0.6124	617	0.9805	666	0.6851	715	0.2215	764	0.0541
569	0.6194	618	0.9786	667	0.6671	716	0.215	765	0.0522
570	0.6229	619	0.9849	668	0.6654	717	0.2097	766	0.05
571	0.6314	620	0.9921	669	0.6508	718	0.2035	767	0.0496
572	0.6369	621	0.9851	670	0.6378	719	0.1986	768	0.0483
573	0.6521	622	0.9902	671	0.6272	720	0.1939	769	0.0466
574	0.6477	623	0.9893	672	0.6138	721	0.1874	770	0.0446
575	0.6586	624	0.9896	673	0.6014	722	0.1846	771	0.0443
576	0.6651	625	0.9852	674	0.5925	723	0.1777	772	0.0429
577	0.6753	626	0.9948	675	0.5789	724	0.1735	773	0.0417
578	0.6826	627	0.9892	676	0.5671	725	0.1673	774	0.0406
579	0.6901	628	0.9884	677	0.5584	726	0.1632	775	0.0396
580	0.6956	629	0.9844	678	0.5474	727	0.1591	776	0.0372
581	0.7111	630	0.985	679	0.5357	728	0.1544	777	0.0366
582	0.7195	631	0.9813	680	0.5233	729	0.1484	778	0.0359
583	0.7276	632	0.9707	681	0.5149	730	0.1447	779	0.0349
584	0.7324	633	0.9791	682	0.5044	731	0.1419	780	0.035
585	0.7397	634	0.9703	683	0.4938	732	0.138		
586	0.751	635	0.9678	684	0.4801	733	0.1323		
587	0.7601	636	0.955	685	0.4758	734	0.1286		
588	0.7648	637	0.9496	686	0.4606	735	0.1269		
589	0.7801	638	0.951	687	0.4522	736	0.1222		
590	0.7918	639	0.9377	688	0.4413	737	0.1184		
591	0.7963	640	0.9347	689	0.4334	738	0.115		
592	0.8016	641	0.9382	690	0.4216	739	0.1124		
593	0.8177	642	0.9158	691	0.4137	740	0.1082		
594	0.8216	643	0.913	692	0.4016	741	0.1064		
595	0.8324	644	0.9045	693	0.3924	742	0.1028		
596	0.8415	645	0.8997	694	0.3827	743	0.101		
597	0.8498	646	0.8941	695	0.3739	744	0.097		
598	0.8617	647	0.8837	696	0.3625	745	0.0936		

10. Goniophotometer Test results for LVFK40-0500W-L27-50-O-24-G(Vivoxy FLEX rail+shield+louver)

10.1 Test Data

Test Ambient Temperature	25.2°C	Test orientation	Downward
Operate time(Min.)	90	stabilization time(Min.)	30

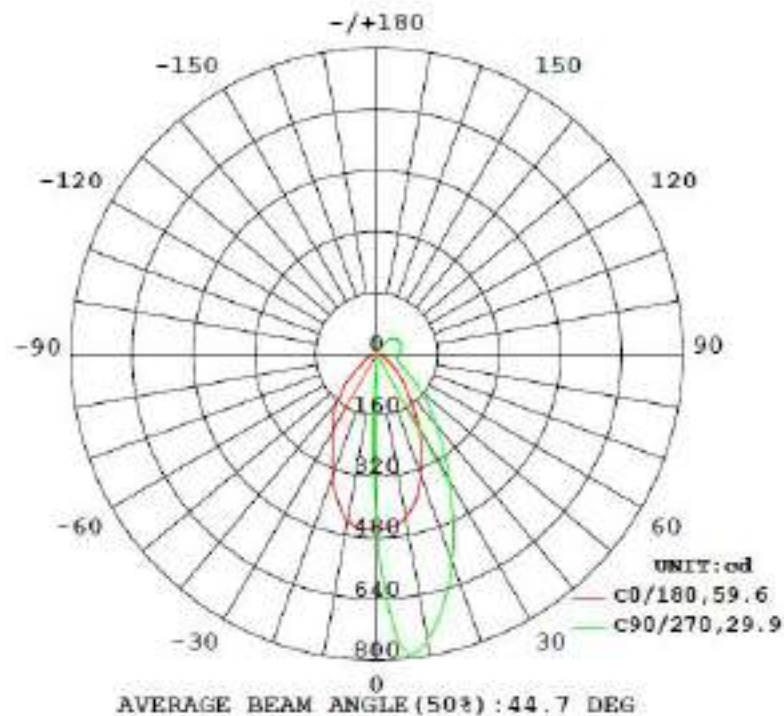
Electrical Measurement

Input Voltage (V)	Frequency (Hz)	Input Current(A)	Power Factor	Power(W)
24	--	0.527	1.0000	12.65

Optical Measurement

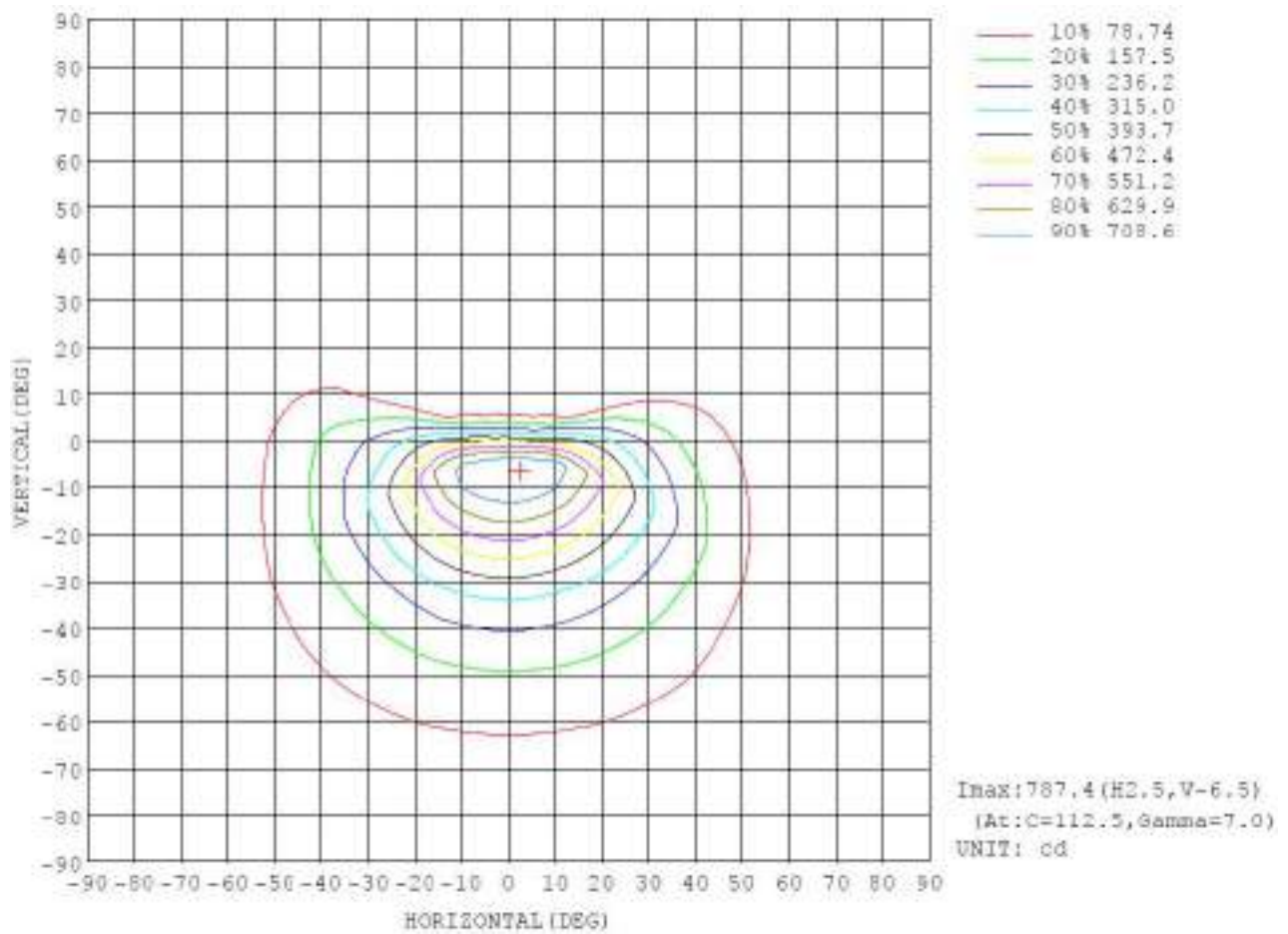
Luminous Flux (lm)	Efficacy(lm/W)	Imax (cd)	S/MH(C0/180)	S/MH(C90/270)
638.036	50.45	791.4	0.87	0.10

10.2 Luminous Intensity Distribution



10.3 Zonal Flux Diagram

γ	C3	C45	C96	C135	C186	C225	C276	C315	γ	# zone	# total	Flux, lamp
10	438.8	756.4	761.0	778.4	442.0	15.58	7,045	18.29	0- 10	40.78	41.78	6,387,438
20	338.2	581.4	577.9	585.2	341.2	4.216	2,448	4.216	10- 20	88.74	139.5	21.9,21.9
30	217.2	386.4	379.8	386.2	234.4	1.323	0	8,9423	20- 30	112.3	231.8	38.2,38.2
40	124.2	230.5	242.5	239.2	161.1	8,2357	0	8,0519	30- 40	96.38	348.6	54.7,54.7
50	68.58	138.3	151.8	138.3	86.23	8,1217	0	8	40- 50	72.86	421.7	68.2,68.2
60	32.49	78.82	89.88	78.44	36.98	8,1845	0	8	50- 60	47.82	488.5	73.8,73.8
70	14.44	38.50	42.80	31.22	18.54	8,8229	0	8	60- 70	40.57	538.4	74.4,74.4
80	6.288	18.41	21.90	17.60	8.255	8	8	8	70- 80	12.88	522.1	81.8,81.8
90	0.6959	19.97	26.67	19.98	1.328	8	0	8	80- 90	18.96	541.1	88.8,88.8
100	0.0161	18.91	63.98	18.98	0	8,8913	0	8	90-100	20.89	582.9	88.2,88.2
110	8	48.52	67.84	58.82	8	8,1266	8	8	100-110	22.88	588.4	91.8,91.8
120	0	46.26	68.51	48.73	0	8,2203	0	8	110-120	21.45	608.9	99.85
130	0	39.31	59.69	42.47	8,0066	8,3345	8,6224	8,0705	120-130	16.49	622.4	97.4,97.4
140	0.0138	15.25	48.32	18.31	8,1683	8,2723	8,2408	8,2724	130-140	18.82	632.4	98.3,98.3
150	0.1866	0.8958	16.42	0.6917	8,2486	8,6748	8,4657	8,4013	140-150	4.154	637.5	88.8,88.8
160	0.1828	0.4176	0.1132	0.9581	8,3529	8,4468	8,4141	8,8683	150-160	0.4328	637.9	100,100
170	0.2827	0.2148	0.1271	0.8519	8,1789	8,3171	8,2293	8,1582	160-170	0.0684	638.8	100,100
180	0.2511	0.2234	0.1285	0.8605	8,1498	8,2857	8,1783	8,0758	170-180	8.0166	638.6	100,100
max	LUMINANCE INTERRUPTED									UNIT:lm		

10.4 Isocandela Diagram

10.5 Luminous Distribution Intensity Data

Table-1

UNIT: cd

(1000)	(1000)	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5			
0	460	460	460	460	460	460	460	460	460	460	460	460	460	460	460	460	460			
5	453	598	701	753	773	762	734	691	639	582	522	460	399	338	278	219	161			
10	434	691	756	756	761	767	779	792	802	812	820	826	831	835	838	840	841			
15	394	680	684	673	676	685	704	691	697	697	697	697	697	697	697	697	697			
20	329	597	591	572	578	594	595	594	594	594	594	594	594	594	594	594	594			
25	277	480	477	471	476	481	485	488	488	488	488	488	488	488	488	488	488			
30	237	381	380	378	382	384	386	389	389	389	389	389	389	389	389	389	389			
35	166	290	297	296	293	304	300	291	283	274	265	256	247	238	229	220	211			
40	124	229	231	237	243	242	229	220	211	202	193	184	175	166	157	148	139			
45	92.3	172	180	189	194	192	178	169	160	151	142	133	124	115	106	97	88			
50	66.6	128	139	148	152	149	138	129	120	111	102	93	84	75	66	57	48			
55	50.4	86.1	106	112	116	113	105	96.7	87.0	77.3	67.6	57.9	48.2	38.5	28.8	19.1	9.4			
60	32.7	60.6	79.0	86.7	89.9	87.8	79.4	69.2	59.0	48.8	38.6	28.4	18.2	8.0	-2.2	-12.5	-22.8			
65	21.0	46.6	61.8	70.0	73.3	70.8	62.3	50.8	39.3	28.8	18.3	7.8	-2.7	-13.2	-23.7	-34.2	-44.7			
70	14.4	37.5	50.5	59.2	62.8	59.7	51.3	40.1	28.6	17.1	6.6	-3.9	-14.4	-24.9	-35.4	-45.9	-56.4			
75	9.68	29.3	42.2	51.5	55.4	52.8	43.3	31.4	20.8	9.3	-1.2	-11.7	-22.2	-32.7	-43.2	-53.7	-64.2			
80	6.29	23.0	36.4	47.7	53.0	48.4	37.8	24.7	12.6	0.7	-9.8	-20.3	-30.8	-41.3	-51.8	-62.3	-72.8			
85	3.46	18.0	30.6	43.4	50.1	45.9	34.4	20.1	8.6	-3.0	-13.5	-24.0	-34.5	-45.0	-55.5	-66.0	-76.5			
90	0.46	19.4	38.4	52.3	59.1	52.7	40.0	21.1	1.33	0.24	-8.00	-18.00	-28.00	-38.00	-48.00	-58.00	-68.00			
95	1.14	22.5	41.8	55.8	61.6	56.2	43.5	24.3	1.71	0.38	-7.00	-17.00	-27.00	-37.00	-47.00	-57.00	-67.00			
100	0.02	26.8	44.8	57.8	63.6	58.3	46.3	27.8	0.00	0.55	-6.00	-16.00	-26.00	-36.00	-46.00	-56.00	-66.00			
105	0.00	27.5	47.1	60.8	66.2	61.4	49.2	29.9	0.00	0.66	-5.08	-15.08	-25.08	-35.08	-45.08	-55.08	-65.08			
110	0.00	28.4	48.5	62.2	67.8	63.0	50.8	30.8	0.00	0.78	-4.13	-14.13	-24.13	-34.13	-44.13	-54.13	-64.13			
115	0.00	29.0	48.9	62.9	68.6	63.9	51.9	30.2	0.00	0.90	-3.17	-13.17	-23.17	-33.17	-43.17	-53.17	-63.17			
120	0.00	17.2	46.3	62.7	68.5	63.9	48.7	20.5	0.00	1.18	-2.22	-12.22	-22.22	-32.22	-42.22	-52.22	-62.22			
125	0.00	8.23	44.6	58.3	65.8	59.9	47.7	11.1	0.00	1.33	-1.25	-11.25	-21.25	-31.25	-41.25	-51.25	-61.25			
130	0.00	3.45	39.3	56.1	60.0	57.8	42.5	3.34	0.01	1.65	-0.33	-10.33	-20.33	-30.33	-40.33	-50.33	-60.33			
135	0.00	2.36	28.3	49.8	55.7	51.8	31.6	1.64	0.06	1.86	-0.45	-9.45	-19.45	-29.45	-39.45	-49.45	-59.45			
140	0.01	1.61	15.2	39.9	48.3	41.6	18.3	0.74	0.16	1.60	-0.57	-9.29	-19.29	-29.29	-39.29	-49.29	-59.29			
145	0.07	1.03	9.18	26.0	33.6	26.6	6.15	0.43	0.26	1.21	-0.66	-8.42	-18.42	-28.42	-38.42	-48.42	-58.42			
150	0.11	0.58	0.90	8.90	16.4	10.1	0.69	0.26	0.27	0.86	-0.67	-8.51	-18.51	-28.51	-38.51	-48.51	-58.51			
155	0.15	0.34	0.39	1.34	2.44	1.19	0.09	0.16	0.31	0.50	-0.58	-8.52	-18.52	-28.52	-38.52	-48.52	-58.52			
160	0.19	0.23	0.42	0.32	0.32	0.05	0.05	0.07	0.38	0.37	-0.45	-8.42	-18.42	-28.42	-38.42	-48.42	-58.42			
165	0.23	0.22	0.28	0.24	0.32	0.05	0.05	0.05	0.38	0.37	-0.34	-8.32	-18.32	-28.32	-38.32	-48.32	-58.32			
170	0.26	0.24	0.21	0.18	0.33	0.08	0.05	0.06	0.38	0.38	-0.32	-8.27	-18.27	-28.27	-38.27	-48.27	-58.27			
175	0.20	0.25	0.20	0.16	0.33	0.08	0.06	0.08	0.37	0.37	-0.30	-8.24	-18.24	-28.24	-38.24	-48.24	-58.24			
180	0.35	0.29	0.23	0.18	0.33	0.07	0.06	0.09	0.35	0.35	-0.29	-8.23	-18.23	-28.23	-38.23	-48.23	-58.23			

11. Integrating Sphere Test Results for LVFK40-0500W-L27-50-O-24-G(Vivoxy FLEX rail+shield+louver+return)

11.1 Test Data

Test Ambient Temperature (Integrating sphere internal temperature)	25.1℃	Test orientation	Downward
Operate time(Min.)	30	stabilization time(Min.)	0

Optical and Electrical Measurement Result

Number	Time	Current (A)	Voltage (V)	Power (W)	Flux(lm)	x	y	u'	v'	CCT (K)	Ra
0	00h00m00s	0.5267	24	12.6408	628.25	0.468	0.4083	0.2688	0.5277	2573	93.3
1	00h00m10s	0.5273	24	12.6552	627.89	0.468	0.4082	0.2688	0.5277	2573	93.3
2	00h00m20s	0.5277	24	12.6648	627.11	0.4679	0.408	0.2689	0.5276	2572	93.3
3	00h00m30s	0.5281	24	12.6744	626.47	0.4679	0.408	0.2689	0.5276	2572	93.3
4	00h00m40s	0.5284	24	12.6816	626.15	0.4679	0.4079	0.2689	0.5275	2571	93.3
5	00h00m50s	0.5286	24	12.6864	626.1	0.4679	0.4079	0.2689	0.5275	2571	93.2
6	00h01m00s	0.5289	24	12.6936	625.36	0.4678	0.4078	0.2689	0.5275	2572	93.2
7	00h01m10s	0.5291	24	12.6984	625.01	0.4679	0.4078	0.269	0.5275	2570	93.2
8	00h01m20s	0.5293	24	12.7032	624.54	0.4678	0.4078	0.269	0.5275	2571	93.2
9	00h01m30s	0.5294	24	12.7056	624.43	0.4678	0.4077	0.269	0.5274	2570	93.2
10	00h01m40s	0.5296	24	12.7104	624.13	0.4679	0.4078	0.269	0.5275	2570	93.2
11	00h01m50s	0.5298	24	12.7152	623.8	0.4677	0.4076	0.2689	0.5274	2571	93.2
12	00h02m00s	0.5299	24	12.7176	623.69	0.4678	0.4076	0.269	0.5274	2571	93.2
13	00h02m10s	0.53	24	12.72	623.41	0.4678	0.4076	0.269	0.5274	2570	93.2
14	00h02m20s	0.5302	24	12.7248	623.26	0.4679	0.4077	0.2691	0.5274	2569	93.1
15	00h02m30s	0.5303	24	12.7272	623.12	0.4679	0.4076	0.2691	0.5274	2569	93.2
16	00h02m40s	0.5304	24	12.7296	622.83	0.4678	0.4075	0.2691	0.5274	2569	93.2
17	00h02m50s	0.5305	24	12.732	622.63	0.4679	0.4076	0.2691	0.5274	2569	93.2
18	00h03m00s	0.5306	24	12.7344	622.51	0.4677	0.4075	0.269	0.5273	2570	93.2
19	00h03m10s	0.5308	24	12.7392	622.2	0.4678	0.4075	0.2691	0.5274	2569	93.2
20	00h03m20s	0.5309	24	12.7416	622.08	0.4677	0.4075	0.269	0.5273	2570	93.1
21	00h03m30s	0.531	24	12.744	621.87	0.4678	0.4075	0.2691	0.5273	2569	93.1
22	00h03m40s	0.5311	24	12.7464	621.64	0.4679	0.4076	0.2691	0.5274	2568	93.1
23	00h03m50s	0.5312	24	12.7488	621.43	0.4679	0.4075	0.2691	0.5274	2568	93.1

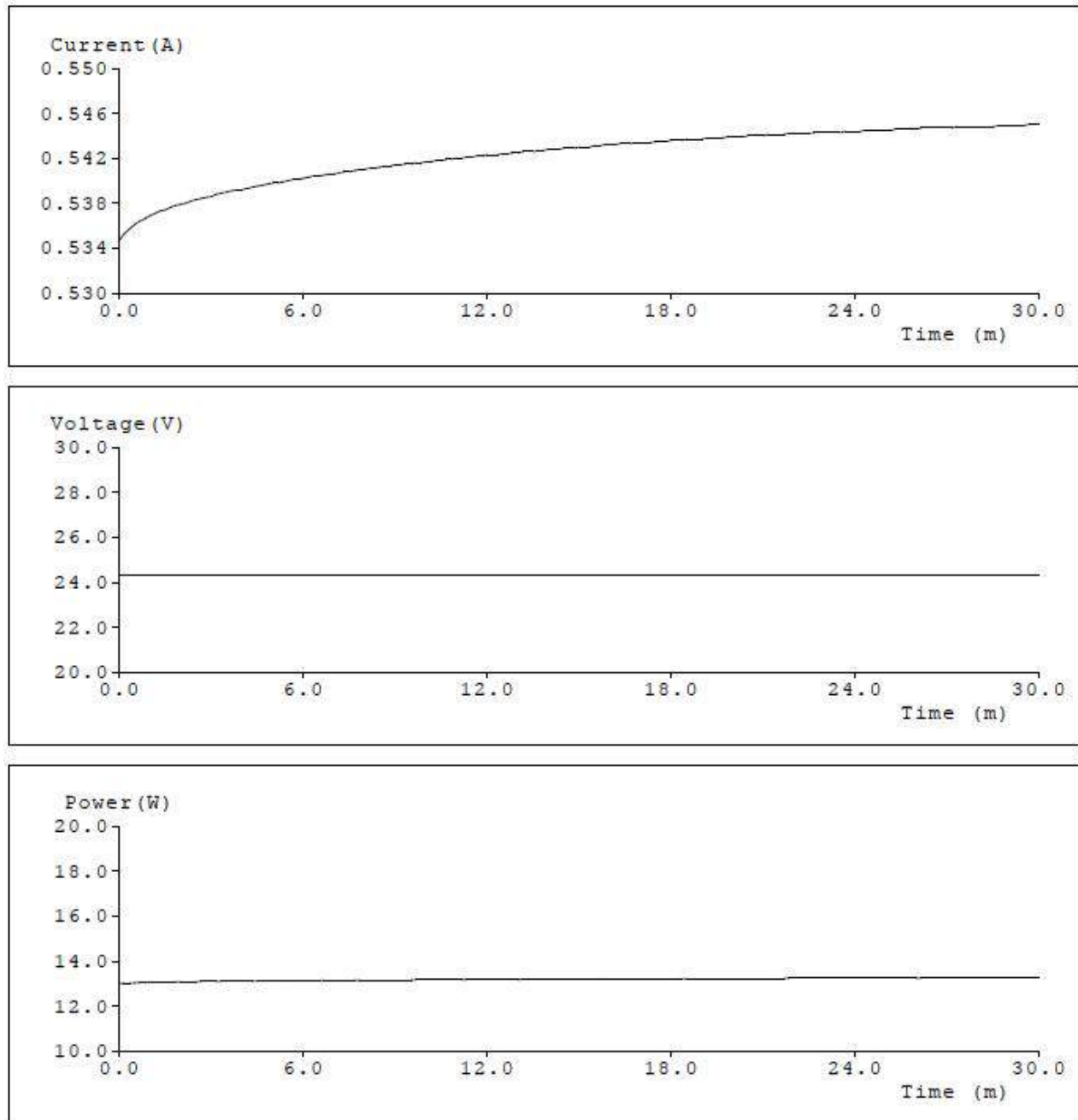
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26	00h04m20s	0.5314	24	12.7536	621.04	0.4678	0.4074	0.2691	0.5273	2568	93.1
27	00h04m30s	0.5315	24	12.756	621.21	0.4677	0.4074	0.269	0.5273	2570	93.1
28	00h04m40s	0.5316	24	12.7584	620.7	0.4677	0.4073	0.2691	0.5273	2569	93.1
29	00h04m50s	0.5317	24	12.7608	620.64	0.4678	0.4073	0.2691	0.5273	2568	93.1
30	00h05m00s	0.5318	24	12.7632	620.3	0.4678	0.4073	0.2692	0.5273	2567	93.1
31	00h05m10s	0.5318	24	12.7632	620.1	0.4678	0.4074	0.2691	0.5273	2569	93.1
32	00h05m20s	0.5319	24	12.7656	619.9	0.4678	0.4073	0.2692	0.5273	2567	93.1
33	00h05m30s	0.532	24	12.768	619.65	0.4679	0.4073	0.2692	0.5273	2567	93
34	00h05m40s	0.5321	24	12.7704	619.8	0.4678	0.4073	0.2691	0.5273	2568	93.1
35	00h05m50s	0.5321	24	12.7704	619.49	0.4678	0.4073	0.2692	0.5273	2567	93.1
36	00h06m00s	0.5322	24	12.7728	619.27	0.4678	0.4072	0.2692	0.5273	2567	93.1
37	00h06m10s	0.5323	24	12.7752	619.15	0.4678	0.4072	0.2692	0.5272	2567	93.1
38	00h06m20s	0.5324	24	12.7776	619.24	0.4677	0.4072	0.2692	0.5272	2568	93.1
39	00h06m30s	0.5324	24	12.7776	618.94	0.4678	0.4072	0.2692	0.5273	2566	93.1
40	00h06m40s	0.5325	24	12.78	618.87	0.4679	0.4072	0.2692	0.5273	2566	93
41	00h06m50s	0.5326	24	12.7824	618.7	0.4678	0.4073	0.2692	0.5273	2568	93
42	00h07m00s	0.5326	24	12.7824	618.75	0.4678	0.4072	0.2692	0.5272	2566	93
43	00h07m10s	0.5327	24	12.7848	618.55	0.4679	0.4073	0.2692	0.5273	2567	93
44	00h07m20s	0.5328	24	12.7872	618.16	0.4678	0.4072	0.2692	0.5272	2566	93
45	00h07m30s	0.5328	24	12.7872	618.27	0.4678	0.4072	0.2692	0.5272	2567	93
46	00h07m40s	0.5329	24	12.7896	617.61	0.4678	0.4071	0.2692	0.5272	2566	93.1
47	00h07m50s	0.533	24	12.792	617.78	0.4679	0.4071	0.2693	0.5272	2565	93
48	00h08m00s	0.533	24	12.792	617.56	0.4678	0.4072	0.2692	0.5272	2566	93.1
49	00h08m10s	0.5331	24	12.7944	617.46	0.4678	0.4071	0.2693	0.5272	2566	93
50	00h08m20s	0.5331	24	12.7944	617.16	0.4677	0.407	0.2693	0.5272	2566	93
51	00h08m30s	0.5332	24	12.7968	617.68	0.4678	0.4073	0.2692	0.5273	2567	93
52	00h08m40s	0.5333	24	12.7992	617.07	0.4677	0.4071	0.2692	0.5272	2567	93
53	00h08m50s	0.5333	24	12.7992	617.05	0.4678	0.407	0.2693	0.5272	2566	93
54	00h09m00s	0.5334	24	12.8016	616.91	0.4679	0.4071	0.2693	0.5272	2565	93
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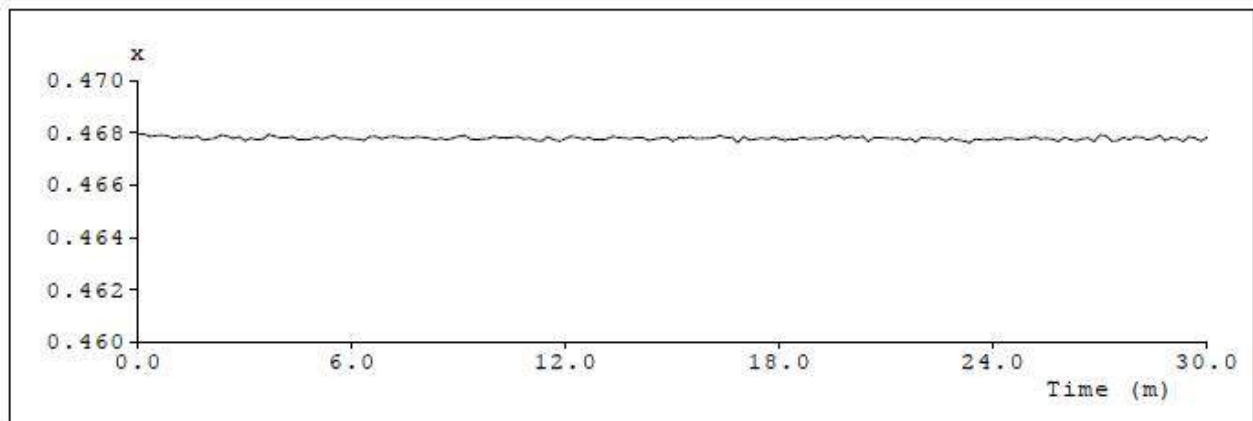
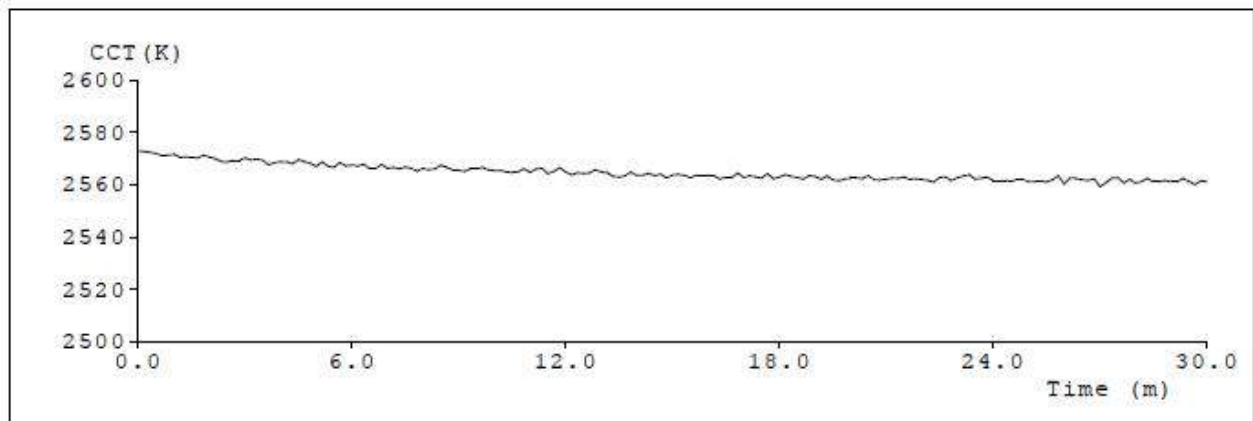
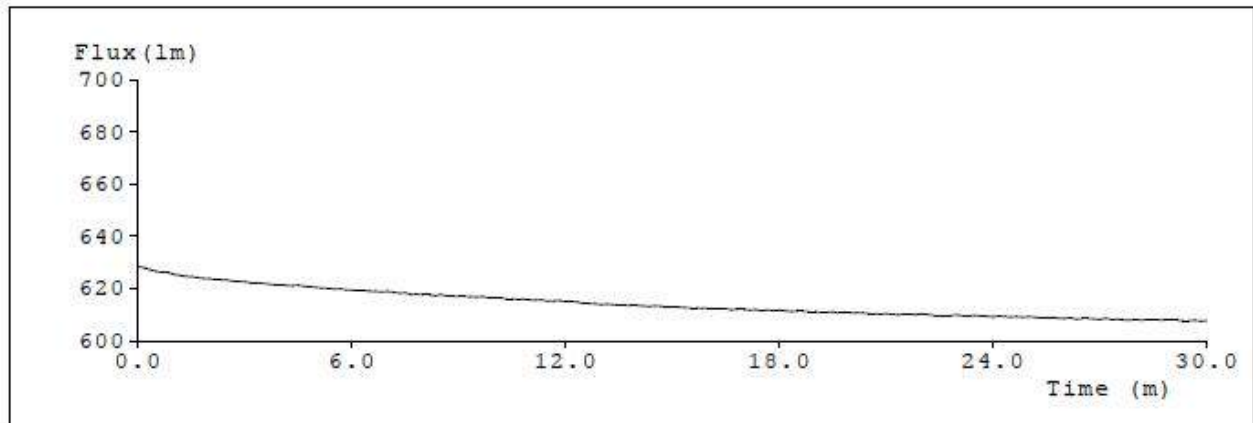
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58	00h09m40s	0.5336	24	12.8064	616.91	0.4678	0.4071	0.2692	0.5272	2567	93
59	00h09m50s	0.5336	24	12.8064	616.42	0.4678	0.407	0.2693	0.5272	2566	93
60	00h10m00s	0.5337	24	12.8088	616.33	0.4679	0.4071	0.2693	0.5272	2565	93
61	00h10m10s	0.5337	24	12.8088	616.31	0.4678	0.407	0.2693	0.5272	2565	93
62	00h10m20s	0.5338	24	12.8112	615.92	0.4678	0.4069	0.2693	0.5271	2565	93
63	00h10m30s	0.5338	24	12.8112	615.97	0.4678	0.407	0.2693	0.5272	2565	93
64	00h10m40s	0.5339	24	12.8136	615.71	0.4679	0.407	0.2693	0.5272	2565	93
65	00h10m50s	0.5339	24	12.8136	615.8	0.4678	0.407	0.2693	0.5272	2566	93
66	00h11m00s	0.534	24	12.816	615.64	0.4678	0.4069	0.2693	0.5271	2565	93
67	00h11m10s	0.534	24	12.816	615.43	0.4677	0.4069	0.2693	0.5271	2566	93
68	00h11m20s	0.5341	24	12.8184	615.58	0.4677	0.4069	0.2693	0.5271	2566	93
69	00h11m30s	0.5341	24	12.8184	615.05	0.4679	0.4069	0.2694	0.5272	2564	93
70	00h11m40s	0.5342	24	12.8208	615.19	0.4677	0.4069	0.2693	0.5271	2565	93
71	00h11m50s	0.5342	24	12.8208	615.34	0.4677	0.4069	0.2692	0.5271	2566	93
72	00h12m00s	0.5343	24	12.8232	614.96	0.4678	0.4069	0.2693	0.5271	2565	92.9
73	00h12m10s	0.5343	24	12.8232	614.95	0.4679	0.4069	0.2694	0.5271	2564	92.9
74	00h12m20s	0.5343	24	12.8232	614.83	0.4678	0.4069	0.2693	0.5272	2565	92.9
75	00h12m30s	0.5344	24	12.8256	614.17	0.4678	0.4068	0.2694	0.5271	2564	93
76	00h12m40s	0.5344	24	12.8256	614.24	0.4678	0.4069	0.2693	0.5271	2564	93
77	00h12m50s	0.5345	24	12.828	614.07	0.4677	0.4069	0.2693	0.5271	2566	93
78	00h13m00s	0.5345	24	12.828	613.79	0.4677	0.4068	0.2693	0.5271	2565	93
79	00h13m10s	0.5346	24	12.8304	613.9	0.4678	0.4069	0.2693	0.5271	2565	93
80	00h13m20s	0.5346	24	12.8304	613.81	0.4679	0.4068	0.2694	0.5271	2563	92.9
81	00h13m30s	0.5346	24	12.8304	613.54	0.4678	0.4067	0.2694	0.5271	2563	92.9
82	00h13m40s	0.5347	24	12.8328	613.57	0.4678	0.4067	0.2694	0.5271	2563	93
83	00h13m50s	0.5347	24	12.8328	613.47	0.4678	0.4069	0.2693	0.5271	2565	92.9
84	00h14m00s	0.5348	24	12.8352	613.41	0.4678	0.4068	0.2694	0.5271	2564	92.9
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86	00h14m20s	0.5348	24	12.8352	613.04	0.4677	0.4067	0.2694	0.527	2564	92.9
87	00h14m30s	0.5349	24	12.8376	613.24	0.4678	0.4067	0.2694	0.527	2563	92.9
88	00h14m40s	0.5349	24	12.8376	613.15	0.4678	0.4068	0.2694	0.5271	2564	92.9
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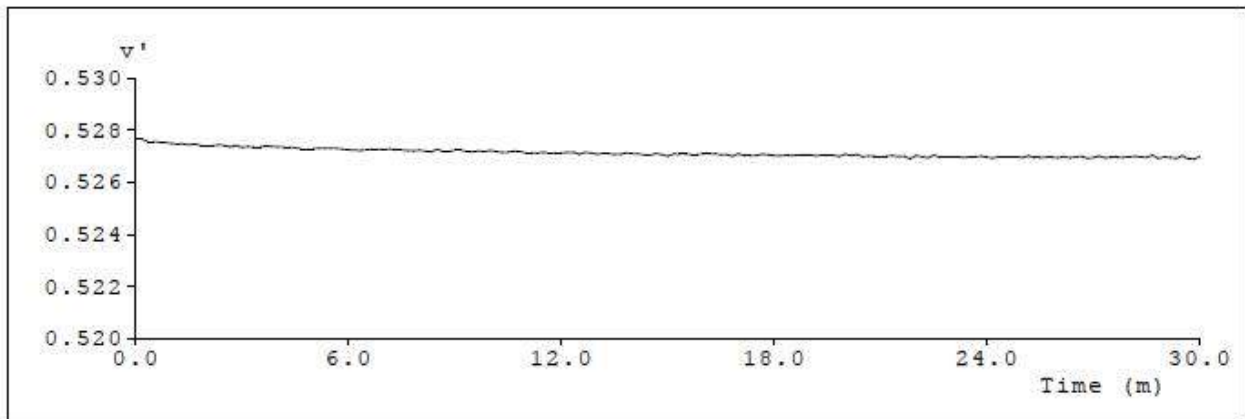
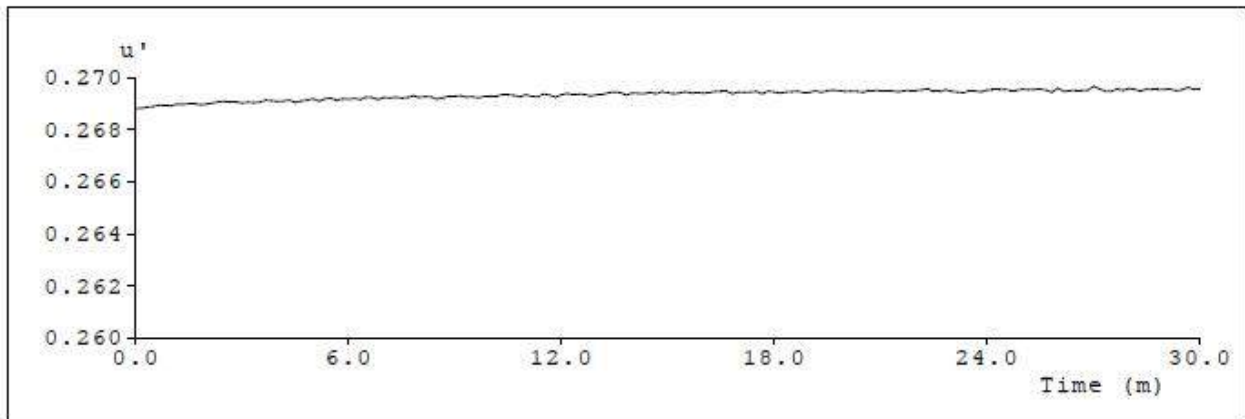
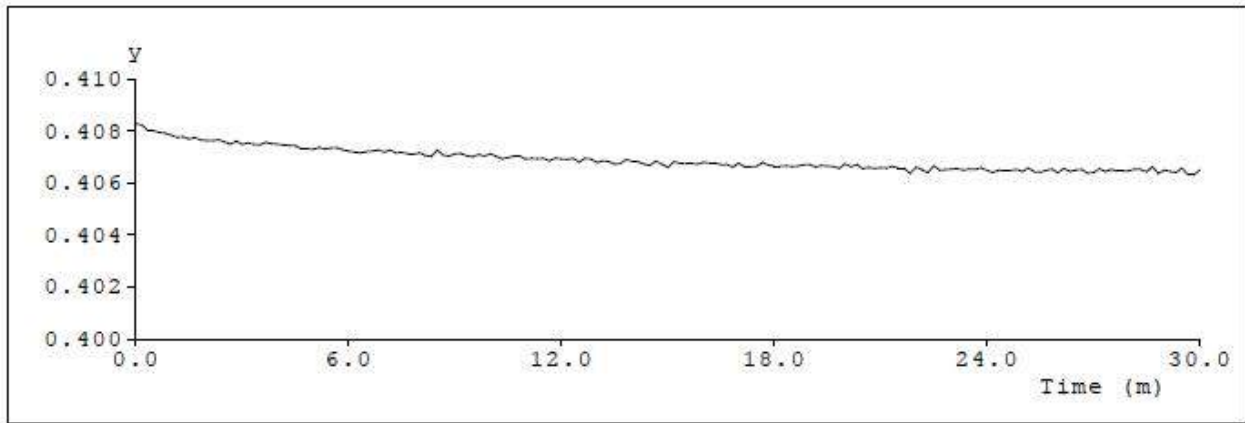
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91	00h15m10s	0.535	24	12.84	612.83	0.4678	0.4068	0.2694	0.5271	2564	92.9
92	00h15m20s	0.535	24	12.84	612.65	0.4678	0.4068	0.2694	0.5271	2564	92.9
93	00h15m30s	0.5351	24	12.8424	612.45	0.4678	0.4067	0.2695	0.5271	2563	92.9
94	00h15m40s	0.5351	24	12.8424	612.57	0.4678	0.4067	0.2694	0.5271	2564	92.9
95	00h15m50s	0.5352	24	12.8448	612.34	0.4678	0.4067	0.2694	0.5271	2563	92.9
96	00h16m00s	0.5352	24	12.8448	612.3	0.4678	0.4068	0.2694	0.5271	2564	92.9
97	00h16m10s	0.5352	24	12.8448	612.19	0.4678	0.4068	0.2694	0.5271	2563	92.9
98	00h16m20s	0.5353	24	12.8472	612.25	0.4679	0.4068	0.2695	0.5271	2562	92.9
99	00h16m30s	0.5353	24	12.8472	612.11	0.4678	0.4067	0.2695	0.5271	2563	92.9
100	00h16m40s	0.5353	24	12.8472	611.78	0.4678	0.4067	0.2694	0.5271	2563	92.9
101	00h16m50s	0.5354	24	12.8496	611.81	0.4676	0.4066	0.2694	0.527	2564	92.9
102	00h17m00s	0.5354	24	12.8496	611.85	0.4679	0.4068	0.2694	0.5271	2563	92.9
103	00h17m10s	0.5354	24	12.8496	611.64	0.4677	0.4066	0.2694	0.527	2563	93
104	00h17m20s	0.5354	24	12.8496	611.87	0.4678	0.4066	0.2694	0.527	2563	92.9
105	00h17m30s	0.5355	24	12.852	611.34	0.4678	0.4066	0.2695	0.527	2562	92.9
106	00h17m40s	0.5355	24	12.852	611.75	0.4678	0.4068	0.2694	0.5271	2564	92.8
107	00h17m50s	0.5355	24	12.852	611.43	0.4678	0.4067	0.2695	0.5271	2562	92.9
108	00h18m00s	0.5356	24	12.8544	611.56	0.4678	0.4066	0.2694	0.527	2563	92.9
109	00h18m10s	0.5356	24	12.8544	611.39	0.4677	0.4066	0.2694	0.527	2564	92.9
110	00h18m20s	0.5356	24	12.8544	611.16	0.4678	0.4067	0.2694	0.527	2563	92.9
111	00h18m30s	0.5357	24	12.8568	611.2	0.4678	0.4066	0.2695	0.527	2563	92.9
112	00h18m40s	0.5357	24	12.8568	611.26	0.4678	0.4066	0.2695	0.527	2562	92.9
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115	00h19m10s	0.5358	24	12.8592	610.88	0.4678	0.4066	0.2695	0.527	2562	92.8
116	00h19m20s	0.5358	24	12.8592	610.88	0.4678	0.4067	0.2694	0.527	2563	92.9
117	00h19m30s	0.5358	24	12.8592	610.94	0.4679	0.4066	0.2695	0.527	2562	92.9
118	00h19m40s	0.5358	24	12.8592	610.54	0.4679	0.4066	0.2695	0.527	2561	92.9
119	00h19m50s	0.5359	24	12.8616	610.64	0.4678	0.4065	0.2695	0.527	2562	92.9
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121	00h20m10s	0.5359	24	12.8616	610.7	0.4678	0.4066	0.2695	0.527	2562	92.9
122	00h20m20s	0.5359	24	12.8616	610.56	0.4679	0.4067	0.2695	0.5271	2562	92.9

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124	00h20m40s	0.536	24	12.864	610.34	0.4678	0.4066	0.2695	0.527	2562	92.9
125	00h20m50s	0.536	24	12.864	610.09	0.4678	0.4066	0.2695	0.527	2562	92.9
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132	00h22m00s	0.5362	24	12.8688	610.2	0.4678	0.4066	0.2695	0.527	2562	92.8
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140	00h23m20s	0.5363	24	12.8712	609.48	0.4676	0.4065	0.2694	0.5269	2564	92.9
141	00h23m30s	0.5363	24	12.8712	609.62	0.4678	0.4065	0.2695	0.527	2562	92.8
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143	00h23m50s	0.5364	24	12.8736	609.25	0.4677	0.4066	0.2694	0.527	2563	92.8
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149	00h24m50s	0.5365	24	12.876	608.9	0.4678	0.4065	0.2695	0.527	2562	92.8
150	00h25m00s	0.5365	24	12.876	609.17	0.4678	0.4064	0.2696	0.527	2561	92.8
151	00h25m10s	0.5365	24	12.876	608.91	0.4679	0.4066	0.2695	0.527	2561	92.8
152	00h25m20s	0.5366	24	12.8784	608.63	0.4678	0.4064	0.2695	0.5269	2561	92.8
153	00h25m30s	0.5366	24	12.8784	608.8	0.4678	0.4064	0.2696	0.5269	2561	92.8
154	00h25m40s	0.5366	24	12.8784	608.75	0.4678	0.4065	0.2695	0.527	2562	92.8
155	00h25m50s	0.5366	24	12.8784	608.53	0.4677	0.4065	0.2694	0.527	2563	92.9

156	00h26m00s	0.5366	24	12.8784	608.42	0.4678	0.4064	0.2696	0.5269	2560	92.8
157	00h26m10s	0.5367	24	12.8808	608.8	0.4677	0.4066	0.2695	0.527	2563	92.8
158	00h26m20s	0.5367	24	12.8808	608.21	0.4677	0.4064	0.2695	0.5269	2562	92.8
159	00h26m30s	0.5367	24	12.8808	608.37	0.4678	0.4065	0.2695	0.527	2562	92.8
160	00h26m40s	0.5367	24	12.8808	608.47	0.4678	0.4065	0.2695	0.527	2562	92.8
161	00h26m50s	0.5367	24	12.8808	608.23	0.4677	0.4064	0.2695	0.5269	2562	92.8
162	00h27m00s	0.5367	24	12.8808	608	0.4679	0.4064	0.2697	0.527	2559	92.8
163	00h27m10s	0.5367	24	12.8808	608.53	0.4679	0.4065	0.2696	0.527	2561	92.8
164	00h27m20s	0.5368	24	12.8832	608.04	0.4677	0.4064	0.2695	0.5269	2563	92.9
165	00h27m30s	0.5368	24	12.8832	608.19	0.4677	0.4065	0.2695	0.527	2563	92.8
166	00h27m40s	0.5368	24	12.8832	607.92	0.4678	0.4064	0.2696	0.527	2561	92.8
167	00h27m50s	0.5368	24	12.8832	607.82	0.4677	0.4064	0.2695	0.5269	2562	92.8
168	00h28m00s	0.5368	24	12.8832	608.07	0.4679	0.4065	0.2696	0.527	2561	92.8
169	00h28m10s	0.5368	24	12.8832	607.82	0.4678	0.4065	0.2695	0.527	2561	92.8
170	00h28m20s	0.5368	24	12.8832	608	0.4677	0.4065	0.2695	0.527	2562	92.8
171	00h28m30s	0.5368	24	12.8832	608.07	0.4678	0.4064	0.2696	0.5269	2561	92.8
172	00h28m40s	0.5369	24	12.8856	607.85	0.4679	0.4066	0.2695	0.527	2561	92.8
173	00h28m50s	0.5369	24	12.8856	607.81	0.4677	0.4064	0.2695	0.5269	2562	92.8
174	00h29m00s	0.5369	24	12.8856	607.7	0.4678	0.4065	0.2695	0.527	2561	92.8
175	00h29m10s	0.5369	24	12.8856	607.82	0.4678	0.4064	0.2696	0.527	2561	92.8
176	00h29m20s	0.5369	24	12.8856	607.65	0.4677	0.4064	0.2695	0.5269	2562	92.9
177	00h29m30s	0.5369	24	12.8856	607.67	0.4679	0.4066	0.2695	0.527	2561	92.8
178	00h29m40s	0.537	24	12.888	607.74	0.4678	0.4063	0.2696	0.5269	2560	92.8
179	00h29m50s	0.537	24	12.888	607.44	0.4677	0.4063	0.2695	0.5269	2561	92.8
180	00h30m00s	0.537	24	12.888	607.61	0.4678	0.4065	0.2696	0.527	2561	92.8

Test curves





*11.2 ANSI/IES TM-30-18 Color Rendition Report

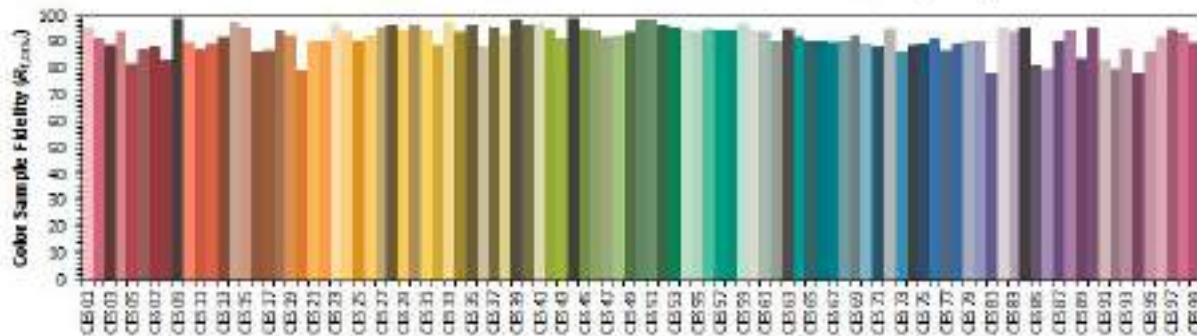
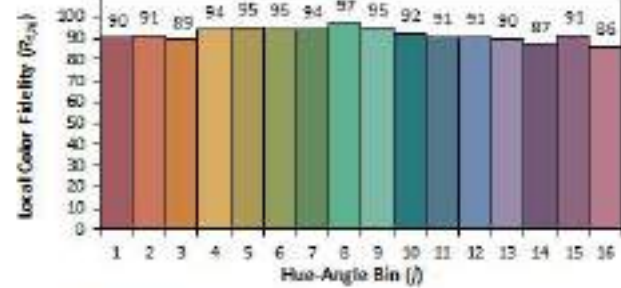
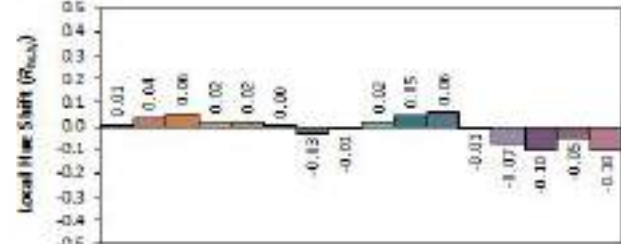
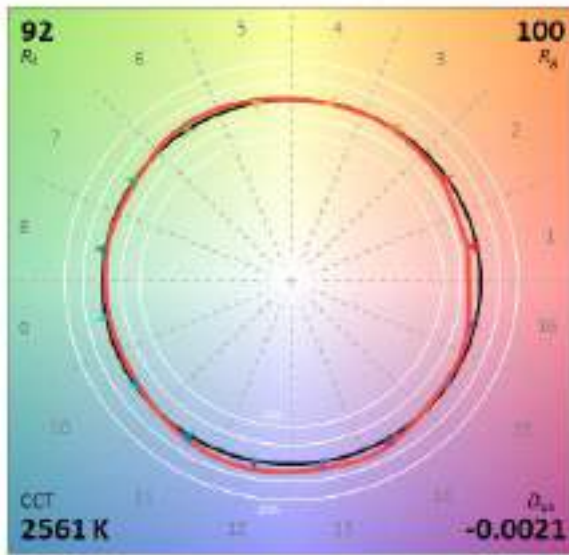
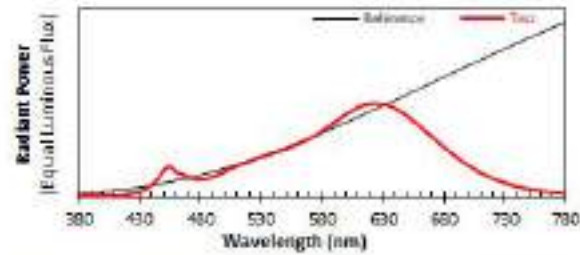
ANSI/IES TM-30-18 Color Rendition Report

Source:

Manufacturer: Guangdong Lunanhub Technology Co., Ltd

Date: 2025/3/19

Model: LVPF40-0500V-L27-50-0-24-C (Vivoxyl FLEX rail+shield+louver+return)



Notes: This is a recommended method for displaying ANSI/IES TM-30-18 information.

x 0.4677

y 0.4063

u' 0.2696

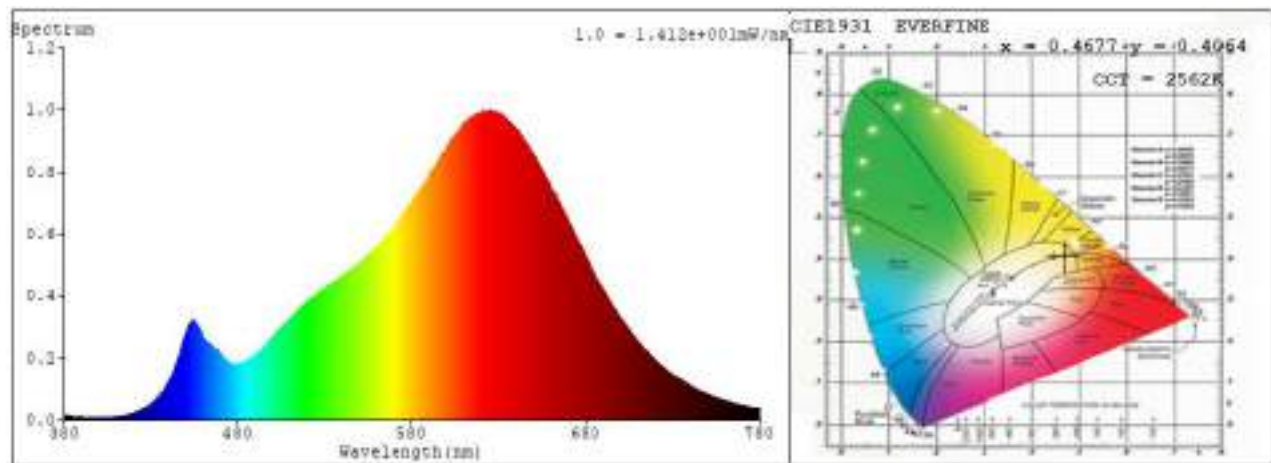
v' 0.5269

CIE 13.3-1995 (CRI)

R_a 93R_g 58

Colors are for visual orientation purposes only. Created with the ANSI/IES TM-30-18 Calculator Version 2.00.

11.3 Relative Spectral Power Distribution



nm	mW	nm	mW	nm	mW	nm	mW	nm	mW
380	0.0076	414	0.0107	448	0.2463	482	0.1819	516	0.3574
381	0.0096	415	0.0122	449	0.2641	483	0.1807	517	0.3601
382	0.0138	416	0.0147	450	0.2788	484	0.187	518	0.367
383	0.0134	417	0.0155	451	0.2904	485	0.1898	519	0.3698
384	0.0035	418	0.0178	452	0.3057	486	0.1923	520	0.3748
385	0.0093	419	0.0198	453	0.3158	487	0.1934	521	0.3801
386	0.0049	420	0.0205	454	0.3181	488	0.1996	522	0.3879
387	0.0023	421	0.0225	455	0.3129	489	0.2026	523	0.3874
388	0.0074	422	0.0251	456	0.3061	490	0.2083	524	0.3928
389	0.0065	423	0.0258	457	0.3002	491	0.2153	525	0.3995
390	0.0028	424	0.031	458	0.2908	492	0.218	526	0.4039
391	0.0045	425	0.0314	459	0.2755	493	0.2235	527	0.4074
392	0.0036	426	0.0342	460	0.2626	494	0.2288	528	0.4142
393	0.0051	427	0.0381	461	0.2605	495	0.235	529	0.4145
394	0.0055	428	0.0416	462	0.2502	496	0.2419	530	0.4193
395	0.0059	429	0.0447	463	0.2499	497	0.2455	531	0.4232
396	0.0029	430	0.0499	464	0.2424	498	0.2548	532	0.429
397	0.0029	431	0.0557	465	0.2381	499	0.2586	533	0.4338
398	0.0031	432	0.0591	466	0.2315	500	0.2652	534	0.4337
399	0.0047	433	0.0651	467	0.2295	501	0.2727	535	0.4429
400	0.0051	434	0.0704	468	0.2243	502	0.2785	536	0.4399
401	0.0046	435	0.0794	469	0.2177	503	0.2863	537	0.4465
402	0.0049	436	0.0841	470	0.213	504	0.2943	538	0.4521
403	0.0028	437	0.0908	471	0.2034	505	0.2996	539	0.4584
404	0.0059	438	0.0969	472	0.1968	506	0.3009	540	0.4615
405	0.0058	439	0.1154	473	0.1946	507	0.3101	541	0.4662
406	0.0065	440	0.1196	474	0.1892	508	0.3142	542	0.473
407	0.0054	441	0.1296	475	0.1856	509	0.319	543	0.4723
408	0.0058	442	0.1434	476	0.1834	510	0.3265	544	0.4798
409	0.0076	443	0.1594	477	0.1796	511	0.3314	545	0.4835
410	0.0073	444	0.1771	478	0.1765	512	0.3341	546	0.4888
411	0.0092	445	0.1908	479	0.1803	513	0.3446	547	0.4936
412	0.0099	446	0.2061	480	0.1786	514	0.3448	548	0.4974
413	0.0094	447	0.2278	481	0.179	515	0.3522	549	0.5015

nm	mW	nm	mW	nm	mW	nm	mW	nm	mW
550	0.5041	599	0.8692	648	0.8753	697	0.3603	746	0.0915
551	0.5094	600	0.8733	649	0.8687	698	0.3518	747	0.0897
552	0.5159	601	0.884	650	0.8572	699	0.3434	748	0.087
553	0.5222	602	0.8944	651	0.8507	700	0.3324	749	0.0836
554	0.531	603	0.9028	652	0.8384	701	0.3257	750	0.083
555	0.5324	604	0.9069	653	0.8272	702	0.3157	751	0.0799
556	0.5343	605	0.9172	654	0.8169	703	0.3079	752	0.0779
557	0.5434	606	0.9201	655	0.8054	704	0.3015	753	0.0752
558	0.5501	607	0.927	656	0.7975	705	0.2942	754	0.0732
559	0.5538	608	0.9392	657	0.7836	706	0.2838	755	0.072
560	0.5563	609	0.9526	658	0.7775	707	0.2748	756	0.0689
561	0.5619	610	0.9515	659	0.7658	708	0.2736	757	0.0658
562	0.5712	611	0.9577	660	0.7513	709	0.2625	758	0.0662
563	0.5774	612	0.9625	661	0.74	710	0.2549	759	0.0627
564	0.5821	613	0.9659	662	0.7304	711	0.2489	760	0.0618
565	0.5933	614	0.9692	663	0.7235	712	0.2434	761	0.0602
566	0.5923	615	0.9794	664	0.7112	713	0.2358	762	0.0585
567	0.5994	616	0.9798	665	0.697	714	0.2297	763	0.0571
568	0.6054	617	0.9869	666	0.6879	715	0.2222	764	0.0555
569	0.6145	618	0.9805	667	0.673	716	0.2167	765	0.0534
570	0.6222	619	0.9788	668	0.6666	717	0.2101	766	0.051
571	0.6266	620	0.995	669	0.6496	718	0.2036	767	0.0502
572	0.638	621	0.9878	670	0.6423	719	0.2026	768	0.0478
573	0.6459	622	0.9912	671	0.6322	720	0.195	769	0.0467
574	0.6505	623	0.9933	672	0.616	721	0.1891	770	0.0453
575	0.6562	624	0.9953	673	0.6063	722	0.1854	771	0.0434
576	0.6623	625	0.9872	674	0.5936	723	0.1784	772	0.0426
577	0.6723	626	0.9942	675	0.5849	724	0.1728	773	0.041
578	0.6854	627	0.9878	676	0.5733	725	0.1694	774	0.0396
579	0.688	628	0.9895	677	0.5604	726	0.1642	775	0.039
580	0.6905	629	0.9842	678	0.5498	727	0.158	776	0.038
581	0.7069	630	0.9825	679	0.5425	728	0.1559	777	0.0372
582	0.713	631	0.9813	680	0.526	729	0.1513	778	0.0361
583	0.7238	632	0.981	681	0.5159	730	0.1462	779	0.0356
584	0.7303	633	0.9858	682	0.5088	731	0.1441	780	0.0356
585	0.7442	634	0.9714	683	0.4959	732	0.1385		
586	0.7478	635	0.9743	684	0.485	733	0.1344		
587	0.755	636	0.9598	685	0.4793	734	0.1311		
588	0.766	637	0.9568	686	0.465	735	0.1264		
589	0.7753	638	0.9526	687	0.4567	736	0.1238		
590	0.7959	639	0.9473	688	0.4417	737	0.1187		
591	0.7949	640	0.9392	689	0.4369	738	0.1153		
592	0.8018	641	0.9359	690	0.426	739	0.1122		
593	0.8135	642	0.9204	691	0.4171	740	0.1092		
594	0.8215	643	0.9164	692	0.406	741	0.106		
595	0.8301	644	0.9085	693	0.3941	742	0.1035		
596	0.84	645	0.9038	694	0.3854	743	0.1001		
597	0.8507	646	0.8942	695	0.3765	744	0.0991		
598	0.8601	647	0.8884	696	0.3656	745	0.0951		

12. Goniophotometer Test results for LVFK40-0500W-L27-50-O-24-G(Vivoxy FLEX rail+shield+louver+return)

12.1 Test Data

Test Ambient Temperature	25.2°C	Test orientation	Downward
Operate time(Min.)	90	stabilization time(Min.)	30

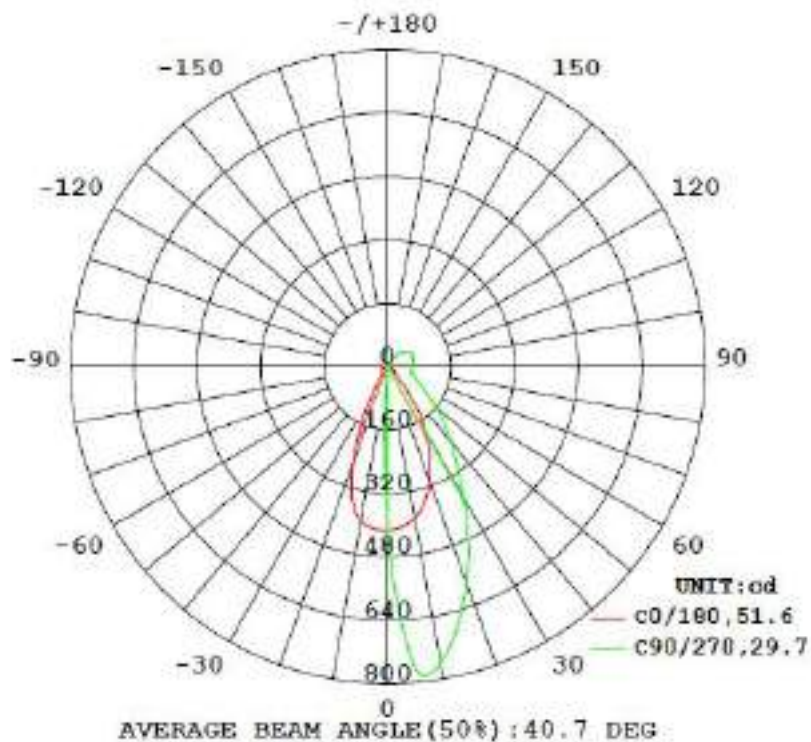
Electrical Measurement

Input Voltage (V)	Frequency (Hz)	Input Current(A)	Power Factor	Power(W)
24	--	0.527	1.0000	12.65

Optical Measurement

Luminous Flux (lm)	Efficacy(lm/W)	Imax (cd)	S/MH(C0/180)	S/MH(C90/270)
603.1	47.68	789.3	0.71	0.09

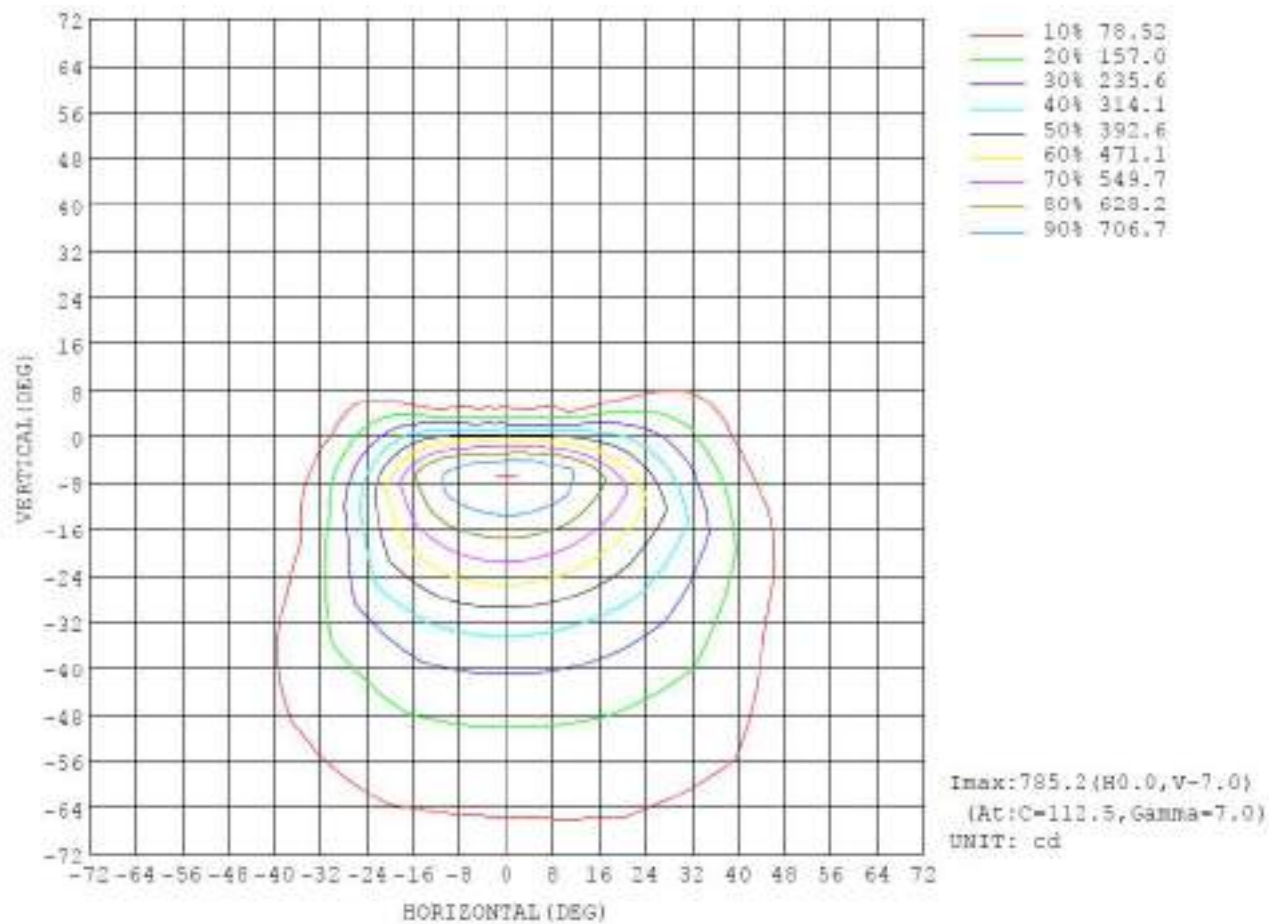
12.2 Luminous Intensity Distribution



12.3 Zonal Flux Diagram

T	C0	C05	C10	C15	C20	C25	C30	C35	Y	# zone	# total	Wlm, lamp
10	588.5	743.5	761.5	782.7	395.2	14.56	4.897	19.88	0- 10	38.32	38.32	4.39, 5.39
20	310.5	382.4	382.4	405.4	262.5	5.648	2.371	8.727	10- 20	86.90	125.4	22.5, 22.5
30	189.4	287.1	284.3	285.3	79.32	2.717	0.1861	2.195	20- 30	107.4	243.0	40.3, 40.3
40	66.47	241.9	244.7	217.0	19.45	1.376	0	0.9245	30- 40	48.74	334.7	55.2, 34.2
50	18.93	150.3	153.2	121.3	12.33	0.6477	0	0.2527	40- 50	30.06	384.8	63.8, 63.8
60	15.39	80.23	86.51	76.06	10.36	0.9328	0	0.2635	50- 60	40.30	425.1	70.3, 70.3
70	11.77	44.84	49.65	52.86	14.51	1.124	0	0.2475	60- 70	30.78	455.9	75.4, 75.4
80	6.459	21.84	28.74	30.58	8.896	1.221	0	0.4025	70- 80	24.41	482.3	80, 80
90	1.634	9.18	12.39	10.45	3.105	1.222	0	0.4279	80- 90	26.41	508.9	84, 84
100	0	32.32	46.54	31.13	0.0208	1.133	0	0.4308	90-100	24.80	531.3	86.1, 86.1
110	0	48.95	49.08	47.08	0	0.9926	0	0.4091	100-110	22.96	554.4	81.8, 81.8
120	0	81.15	67.68	66.47	0.0142	0.7714	0	0.3451	110-120	18.59	574.0	89.2, 89.2
130	0.0165	31.94	57.86	29.30	0.0785	0.6482	0.0208	0.3493	120-130	18.87	589.0	90.7, 87.7
140	0.0432	12.79	44.97	14.22	0.1772	0.4745	0.2322	0.2979	130-140	9.671	586.7	86.3, 89.2
150	0.1969	1.873	15.07	1.813	0.2722	0.4357	0.4438	0.3947	140-150	3.848	602.5	89.9, 89.9
160	0.1018	0.6389	0.2895	0.4741	0.8561	0.2744	0.3784	0.8142	150-160	0.4809	603.6	100, 100
170	0.2488	0.2913	0.1047	0.1008	0.3778	0.3102	0.1829	0.1176	160-170	0.0848	602.3	100, 100
180	0.1442	0.1172	0.1045	0.0408	0.3498	0.2807	0.1521	0.0541	170-180	0.0167	602.1	100, 100
DEC	LUMINOUS INTENSITY (cd)									UNIT:lm		

12.4 Isocandela Diagram



12.5 Luminous Distribution Intensity Data

Table--1

UNIT: cd

C (DBS) Y (DMS)	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5			
5	413	413	413	413	413	413	413	413	413	413	413	413	413	413	413	413			
5	407	565	663	734	759	747	683	585	411	242	146	76.6	62.6	72.3	141	239			
10	389	661	750	753	761	771	783	689	395	115	16.4	8.42	7.00	8.46	15.9	109			
15	354	675	682	673	678	691	713	698	349	29.3	7.06	5.13	4.49	5.18	7.26	27.4			
20	310	598	582	574	582	591	605	568	263	12.5	5.64	3.92	2.87	3.96	5.79	12.8			
25	255	499	481	475	480	490	491	480	172	9.21	4.79	3.96	0.98	0.92	4.88	9.49			
30	190	388	387	388	384	393	385	256	79.3	8.35	2.72	0.54	0.19	0.52	2.48	8.99			
35	124	293	307	302	306	312	295	136	33.1	7.65	1.77	0.27	0.03	0.23	1.43	7.25			
40	66.5	204	242	243	247	249	217	67.4	19.3	6.92	1.38	0.05	0.00	0.00	0.92	6.32			
45	29.2	138	191	198	200	208	163	40.1	19.3	5.71	1.08	0.00	0.00	0.00	0.46	4.79			
50	18.9	87.4	150	158	159	168	122	28.6	19.3	4.49	0.88	0.00	0.00	0.00	0.25	3.46			
55	17.8	69.8	115	124	129	129	99.9	96.9	19.1	3.66	0.91	0.02	0.00	0.00	0.24	2.51			
60	15.4	38.7	90.2	98.6	96.5	96.7	76.1	37.2	16.4	2.84	0.98	0.04	0.00	0.00	0.26	1.57			
65	13.6	36.1	74.7	82.6	80.0	80.1	65.9	38.2	16.8	2.30	1.06	0.06	0.00	0.00	0.38	1.02			
70	11.8	35.2	64.9	72.3	69.6	69.9	58.9	38.5	14.3	2.29	1.14	0.07	0.00	0.00	0.35	0.98			
75	9.39	33.8	57.4	64.9	61.9	61.7	54.1	37.9	11.8	2.31	1.19	0.08	0.00	0.00	0.38	1.03			
80	6.65	32.2	51.6	60.6	58.7	57.4	50.6	36.7	8.99	2.37	1.22	0.08	0.00	0.00	0.48	1.04			
85	3.84	30.4	49.8	61.6	60.1	58.2	49.7	35.3	6.20	2.38	1.23	0.08	0.00	0.00	0.41	1.07			
90	1.63	29.1	51.1	63.7	62.4	59.7	50.5	33.9	3.18	2.37	1.22	0.07	0.00	0.00	0.43	1.08			
95	0.63	27.3	52.2	66.0	65.2	61.7	51.2	31.9	1.27	2.31	1.20	0.07	0.00	0.00	0.43	1.08			
100	0.00	24.1	52.3	66.8	66.5	62.7	51.1	28.6	0.02	2.27	1.19	0.06	0.00	0.00	0.43	1.07			
105	0.00	19.9	51.4	67.8	68.2	63.5	49.7	23.9	0.00	2.14	1.08	0.05	0.00	0.00	0.43	1.05			
110	0.00	15.4	49.0	67.3	69.0	62.8	47.1	19.0	0.00	2.00	0.99	0.03	0.00	0.00	0.41	1.01			
115	0.00	12.6	45.7	65.8	68.7	61.2	43.4	15.1	0.00	1.82	0.89	0.01	0.00	0.00	0.39	0.95			
120	0.00	9.78	41.2	63.6	67.6	58.9	38.7	12.0	0.01	1.64	0.77	0.00	0.00	0.00	0.37	0.89			
125	0.00	6.76	37.3	58.0	64.3	54.7	34.3	8.40	0.00	1.43	0.66	0.00	0.00	0.00	0.36	0.80			
130	0.02	4.24	32.0	53.9	57.9	50.9	29.3	5.18	0.08	1.19	0.57	0.04	0.02	0.02	0.37	0.69			
135	0.03	2.96	23.7	47.2	52.9	44.2	22.6	3.34	0.12	0.97	0.51	0.13	0.11	0.10	0.39	0.60			
140	0.06	2.10	13.8	37.3	45.0	36.6	14.9	2.18	0.18	0.77	0.47	0.24	0.23	0.22	0.48	0.53			
145	0.11	1.47	8.97	23.5	31.1	23.2	5.64	1.37	0.25	0.60	0.45	0.36	0.36	0.34	0.48	0.44			
150	0.14	0.98	1.87	8.63	15.1	9.32	1.81	0.81	0.27	0.48	0.44	0.43	0.44	0.41	0.38	0.32			
155	0.17	0.66	1.10	1.55	2.30	1.56	0.84	0.47	0.31	0.37	0.42	0.43	0.44	0.41	0.36	0.27			
160	0.20	0.47	0.70	0.97	0.29	0.41	0.47	0.28	0.36	0.35	0.37	0.37	0.38	0.36	0.31	0.25			
165	0.23	0.32	0.44	0.34	0.23	0.29	0.26	0.14	0.38	0.36	0.33	0.30	0.28	0.26	0.21	0.18			
170	0.25	0.27	0.28	0.23	0.18	0.17	0.10	0.09	0.38	0.27	0.31	0.28	0.19	0.15	0.13	0.11			
175	0.29	0.25	0.20	0.18	0.16	0.09	0.07	0.09	0.36	0.36	0.29	0.22	0.15	0.09	0.06	0.07			
180	0.35	0.29	0.22	0.16	0.10	0.06	0.06	0.11	0.35	0.35	0.28	0.22	0.15	0.10	0.05	0.06			

13.Photo of sample

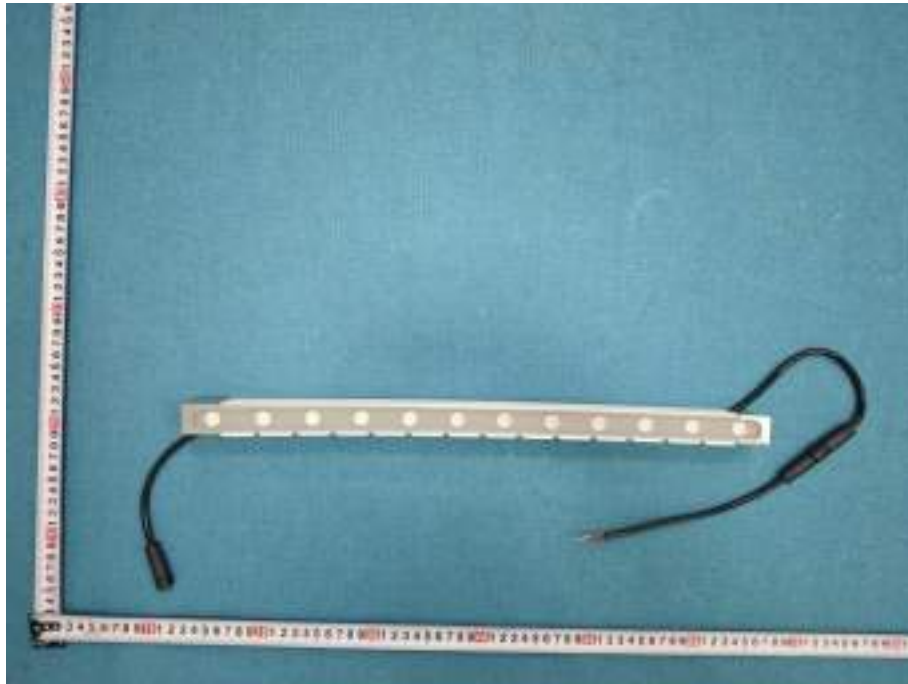


Figure 1 Overview of LVFK40-0500W-L27-50-O-24-G(Vivoxy FLEX rail)

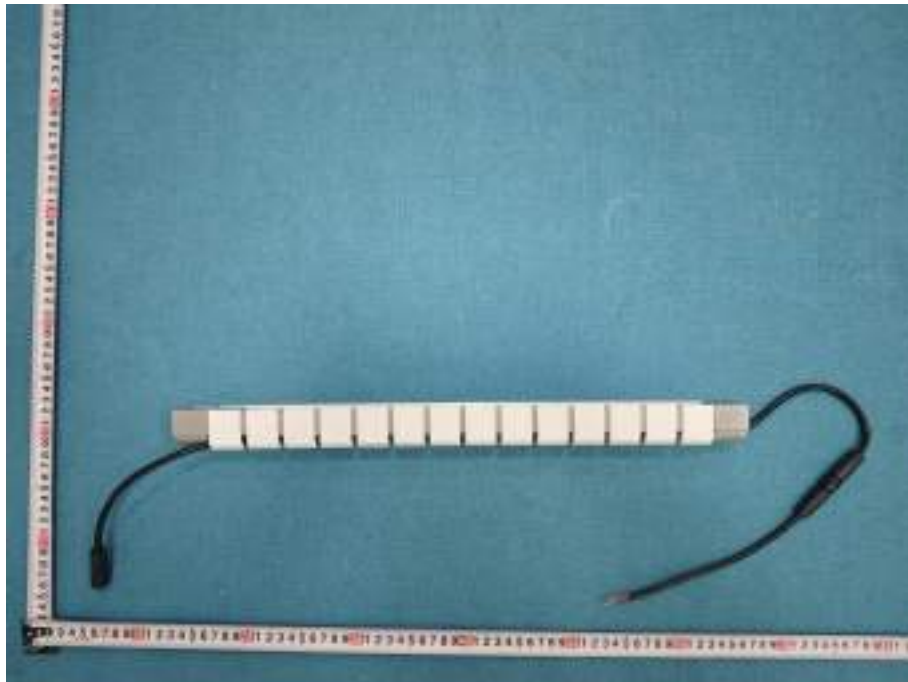


Figure 2 Overview of LVFK40-0500W-L27-50-O-24-G(Vivoxy FLEX rail)

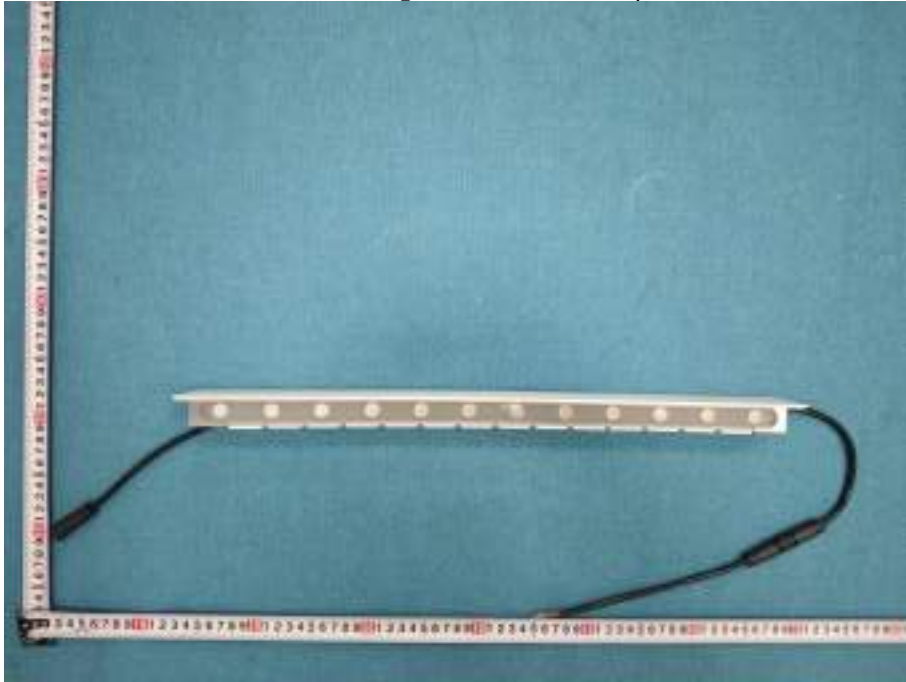


Figure 3 Overview of LVFK40-0500W-L27-50-O-24-G(Vivoxy FLEX rail+shield)

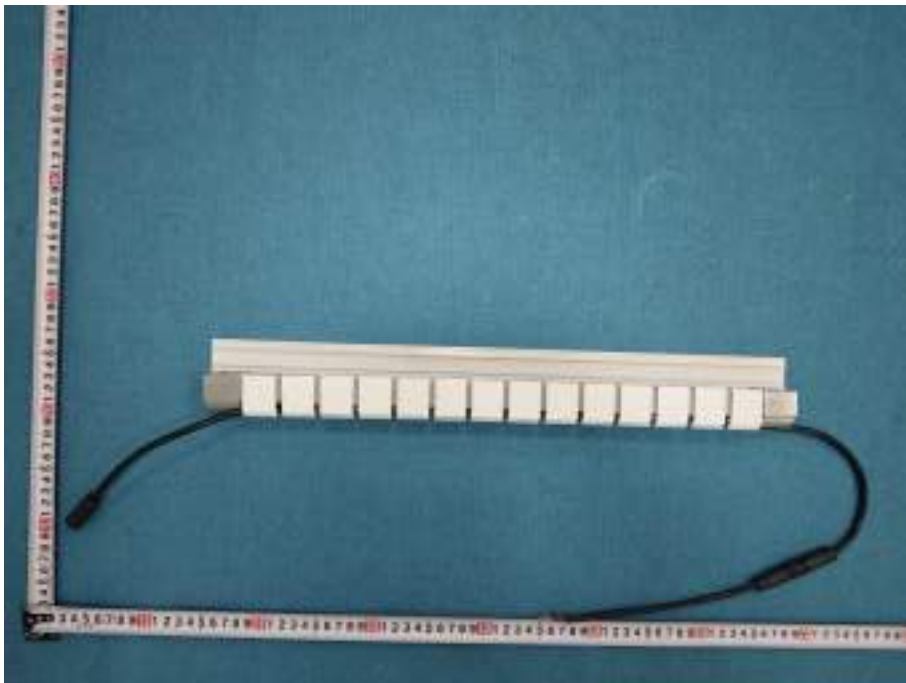


Figure 4 Overview of LVFK40-0500W-L27-50-O-24-G(Vivoxy FLEX rail+shield)

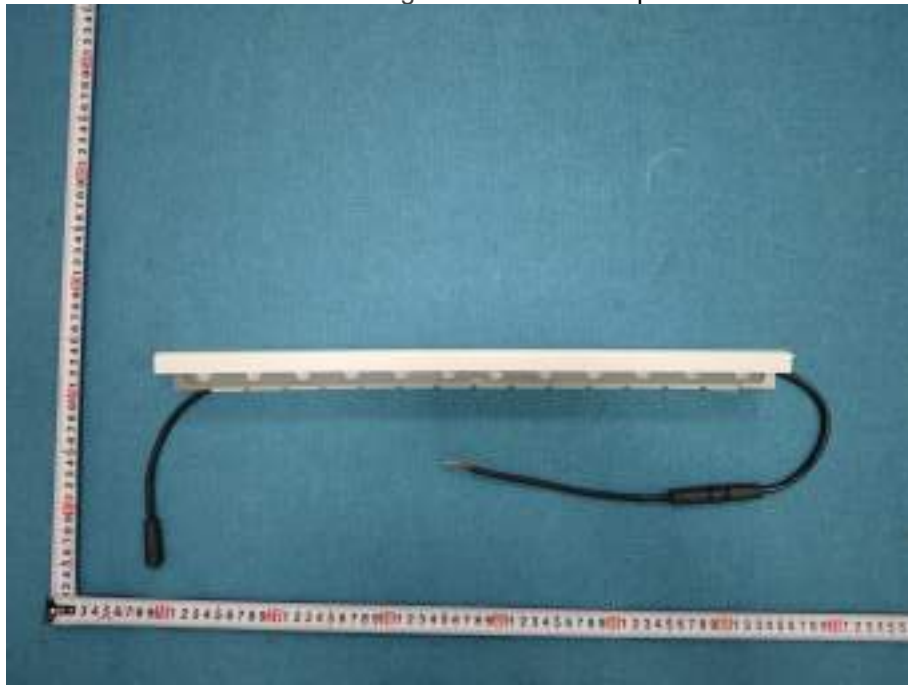


Figure 5 Overview of LVFK40-0500W-L27-50-O-24-G(Vivoxy FLEX rail+shield+louver)

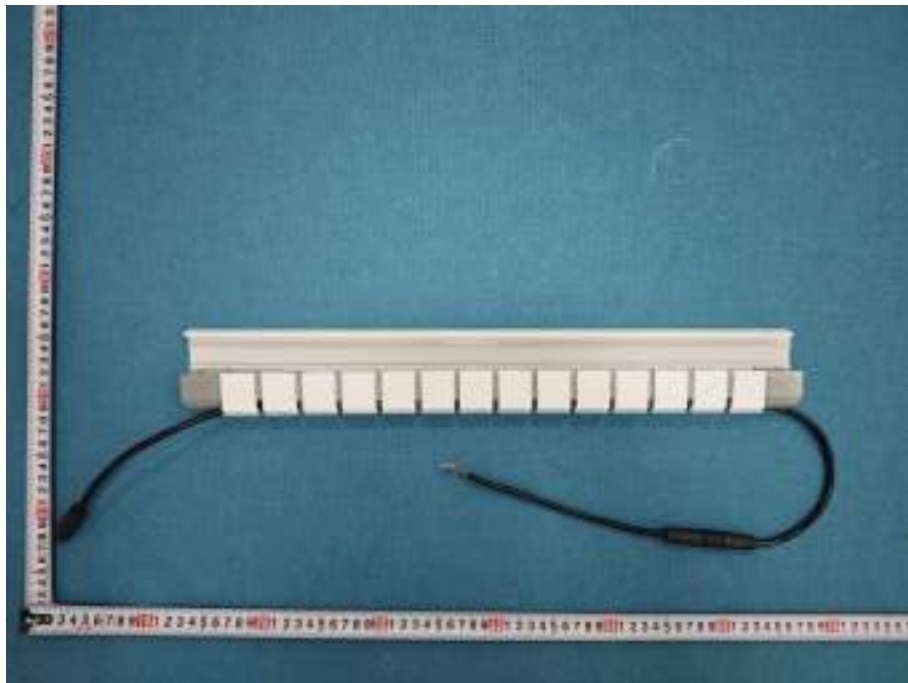


Figure 6 Overview of LVFK40-0500W-L27-50-O-24-G(Vivoxy FLEX rail+shield+louver)



Figure 7 Overview of LVFK40-0500W-L27-50-O-24-G(Vivoxy FLEX rail+shield+louver+return)

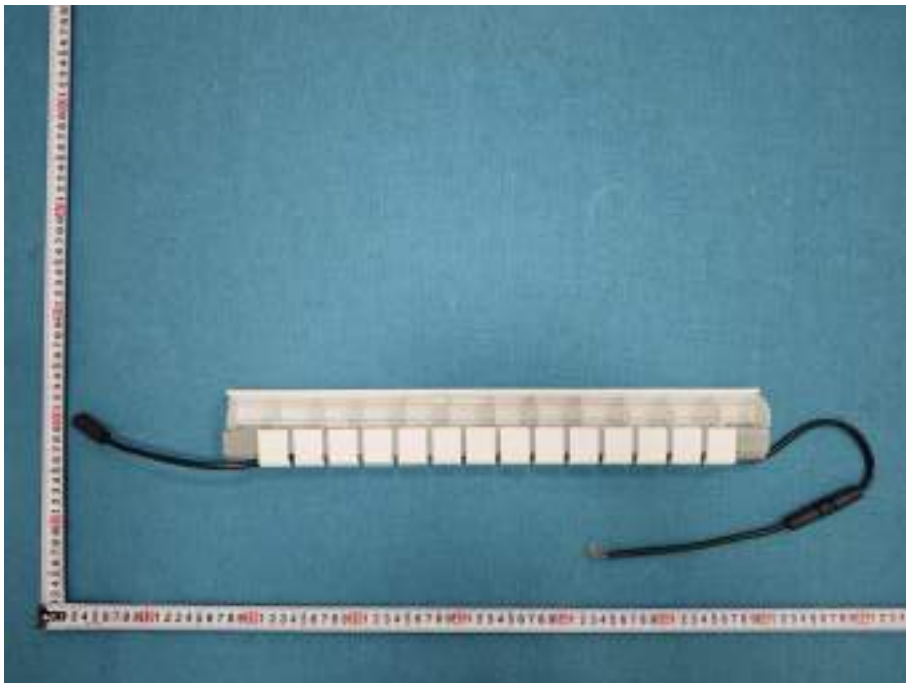


Figure 8 Overview of LVFK40-0500W-L27-50-O-24-G(Vivoxy FLEX rail+shield+louver+return)

---End of Report---



Test Report Of ANSI/IES LM-79-19

APPROVED METHOD FOR OPTICAL AND ELECTRICAL MEASUREMENTS OF SOLID-STATE LIGHTING PRODUCTS

Report Number..... : N01A24121657L00101

Client..... : Luci Pte. Ltd.

Address..... : 13A Bukit Pasoh Road Singapore 089827

Test Model..... : LVFK40-0500W-L27-SP2-O-24-G(Vivoxy FLEX rail),
LVFK40-0500W-L27-SP2-O-24-G(Vivoxy FLEX rail+shield),
LVFK40-0500W-L27-SP2-O-24-G(Vivoxy FLEX rail+shield+louver),
LVFK40-0500W-L27-SP2-O-24-G(Vivoxy FLEX rail+shield+louver+return)

Brand Name..... : N/A

Testing Laboratory... : Guangdong GTG Testing Technology Co., Ltd.

Address..... : 1st floor, B Area, Jinbaisheng Industrial Park, Headquarters 2 Road, Songshan
Lake Hi-tech Industrial Development Zone, Dongguan City, Guangdong Pr., China.

Testing Location..... : As above

Date of receipt..... : Mar. 11, 2025

Date of test : Mar. 12, 2025 - Mar. 18, 2025

Date of report..... : Apr. 14, 2025

Tested by:

Sujay Zhou

Sujay Zhou/ Test Engineer

Checked by:

Sandy Chen

Sandy Chen/ Project Engineer

Approved by:



Jessie Li/ Technical Manager

Note 1: The test data was only valid for the test sample(s). This test report is prepared for the customer shown above and for the device described herein. It may not be duplicated or used in part without prior written consent from Guangdong GTG Testing Technology Co., Ltd. This report must not be used by the customer to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

Note 2: This report does not imply product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

Note 3: This report contains data that are not covered by the NVLAP accreditation. It is marked * in the title.

1. Product Description for Equipment under Test (EUT)

Representative (Tested) Model:	LVFK40-0500W-L27-SP2-O-24-G(Vivoxy FLEX rail), LVFK40-0500W-L27-SP2-O-24-G(Vivoxy FLEX rail+shield), LVFK40-0500W-L27-SP2-O-24-G(Vivoxy FLEX rail+shield+louver), LVFK40-0500W-L27-SP2-O-24-G(Vivoxy FLEX rail+shield+louver+return)
Manufacturer:	Guangdong Lumenhub Technology Co.Ltd
Product Type:	Vivoxy FLEX rail, Vivoxy FLEX rail+shield, Vivoxy FLEX rail+shield+louver, Vivoxy FLEX rail+shield+louver+return
Rated Voltage/Frequency:	DC24V
Rated Power:	12W
Rated luminous flux:	/
Nominal CCT:	2700K

2. Standards Used

- ANSI/IES LM-79-19:APPROVED METHOD:OPTICAL AND ELECTRICAL MEASUREMENTS OF SOLID-STATE LIGHTING PRODUCTS
- IES TM-30-18 IES Method for Evaluating Light Source Color Rendition (This Method is not in Nvlap accreditation scope)

3. Test equipment list

Test Equipment	Serial No.	Model No.	Calibration due date
Full-field Speed Goniophotometer	01-L-182	GO-R5000	2026/03/11
Digital Power Meter	01-L-161	PF2010	2026/03/11
AC Testing Power Source	01-L-162	DPS1060	2026/03/11
Total Spectral Radiant Flux Standard Lamp	01-L-165	D908S	2025/03/19
Integrating Sphere System	01-L-183	2M	2026/03/11
High Accuracy Array Spectroradio Meter	01-L-169	HAAS-3000	2026/03/11
Digital Power Meter	01-L-166	PF310	2026/03/11
AC Testing Power Source	01-L-168	DPS1010	2026/03/11
Standard Lamp	01-L-190	D204	2025/03/19

Statement of Traceability: Guangdong GTG Testing Technology Co., Ltd. attested that all calibration has been performed using suitable standards traceable to national primary standards and International System of Unit(SI).

4. Test Method

Requirements of Ambient Condition

Product was tested with no seasoning. All stabilization and measurements were made in compliance with ANSI/IES LM-79-19. The product was operated at rated voltage or at voltage required by manufacturer. The ambient temperature of the sample was maintained at $25^{\circ}\text{C} \pm 1.2^{\circ}\text{C}$ during measurement. And relative humidity between 10% and 65%.

Goniophotometer System

The sample was tested according to the ANSI/IES LM-79-19.

Photometric parameters were measured using a type C goniophotometer and software. The samples were operated at rated voltage and was stabilized before measurement. Luminous flux, Luminous efficacy, zonal flux were calculated from the software taken at 1° vertical intervals and 22.5° horizontal intervals. Photometric distance was more than five times of the Largest dimension of the test SSL product.

Integrating Sphere System

The sample was tested according to the ANSI/IES LM-79-19.

The sample measurements were made using a spectroradiometer connected by a fiber optic cable and detector through the detector port of the integrating sphere. Coating reflectance of the integrating sphere was 90% to 98%. Photometric measurement conditions was using 4π geometry. The self-absorption factor is applied in the final test result. The sample was operated at rated voltage and was stabilized before measurement. Chromaticity coordinates, correlated color temperature and color rendering index were calculated from the spectral radiant flux measurements taken at 1 nm intervals over the range of 380 to 780 nm.

Fidelity Index (R_f) and Gamut Index (R_g) Calculation

The R_f , R_g was calculated according to IES TM-30-18 by using calculation tools. The calculation was based on the measured SPD from 380nm to 780nm with 1nm intervals. All the colors in this report is for reference only.

5. Integrating Sphere Test Results for LVFK40-0500W-L27-SP2-O-24-G(Vivoxy FLEX rail)

5.1 Test Data

Test Ambient Temperature (Integrating sphere internal temperature)	25.0℃	Test orientation	Downward
Operate time(Min.)	30	stabilization time(Min.)	0

Optical and Electrical Measurement Result

Number	Time	Current (A)	Voltage (V)	Power (W)	Flux(lm)	x	y	u'	v'	CCT (K)	Ra
0	00h00m00s	0.5268	24	12.6432	798.53	0.4682	0.4073	0.2694	0.5273	2563	93.6
1	00h00m10s	0.5272	24	12.6528	797.34	0.4681	0.4072	0.2694	0.5273	2562	93.6
2	00h00m20s	0.5276	24	12.6624	796.63	0.4681	0.4071	0.2695	0.5273	2562	93.5
3	00h00m30s	0.5279	24	12.6696	796.28	0.4681	0.407	0.2695	0.5272	2561	93.6
4	00h00m40s	0.5282	24	12.6768	795.83	0.4681	0.4069	0.2695	0.5272	2561	93.5
5	00h00m50s	0.5284	24	12.6816	795.26	0.4681	0.407	0.2695	0.5272	2561	93.5
6	00h01m00s	0.5287	24	12.6888	794.44	0.4681	0.4068	0.2696	0.5271	2560	93.5
7	00h01m10s	0.5289	24	12.6936	794.35	0.468	0.4068	0.2695	0.5271	2561	93.5
8	00h01m20s	0.5291	24	12.6984	794.23	0.4681	0.4069	0.2695	0.5272	2561	93.5
9	00h01m30s	0.5293	24	12.7032	793.62	0.468	0.4068	0.2696	0.5271	2560	93.5
10	00h01m40s	0.5294	24	12.7056	793.33	0.4681	0.4069	0.2696	0.5272	2560	93.4
11	00h01m50s	0.5296	24	12.7104	792.82	0.468	0.4066	0.2696	0.5271	2560	93.4
12	00h02m00s	0.5297	24	12.7128	792.76	0.468	0.4067	0.2696	0.5271	2560	93.5
13	00h02m10s	0.5299	24	12.7176	792.14	0.468	0.4067	0.2696	0.5271	2560	93.4
14	00h02m20s	0.53	24	12.72	791.69	0.4679	0.4067	0.2695	0.5271	2561	93.4
15	00h02m30s	0.5302	24	12.7248	791.39	0.468	0.4066	0.2696	0.527	2560	93.4
16	00h02m40s	0.5303	24	12.7272	791.37	0.468	0.4065	0.2696	0.527	2560	93.4
17	00h02m50s	0.5304	24	12.7296	790.96	0.4681	0.4066	0.2696	0.5271	2559	93.4
18	00h03m00s	0.5306	24	12.7344	790.94	0.468	0.4066	0.2696	0.5271	2560	93.4
19	00h03m10s	0.5307	24	12.7368	790.24	0.468	0.4065	0.2697	0.527	2559	93.4
20	00h03m20s	0.5309	24	12.7416	790.42	0.468	0.4063	0.2697	0.5269	2558	93.4
21	00h03m30s	0.531	24	12.744	789.98	0.4679	0.4063	0.2697	0.5269	2559	93.4
22	00h03m40s	0.5311	24	12.7464	789.74	0.4679	0.4065	0.2696	0.527	2560	93.4
23	00h03m50s	0.5312	24	12.7488	789.46	0.4679	0.4064	0.2696	0.527	2560	93.4

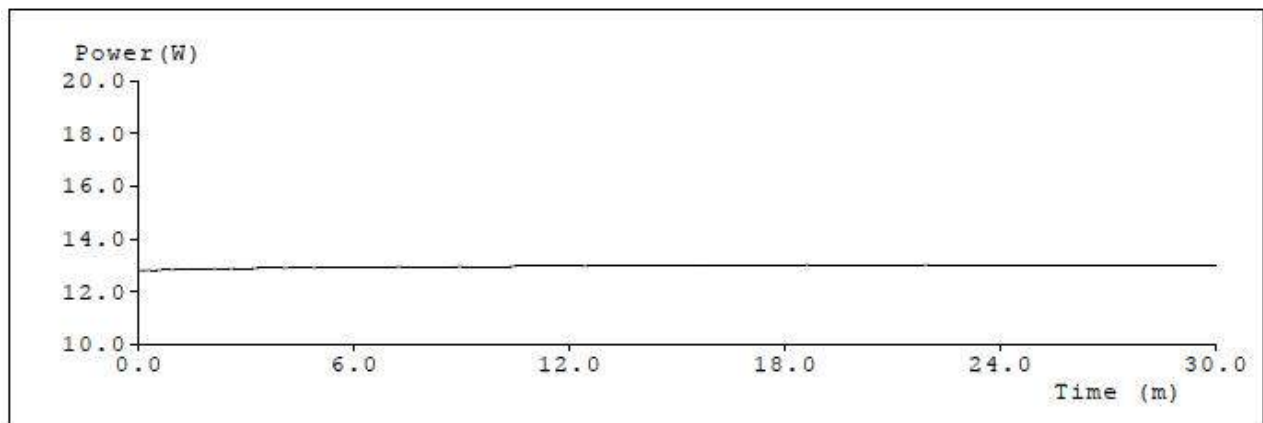
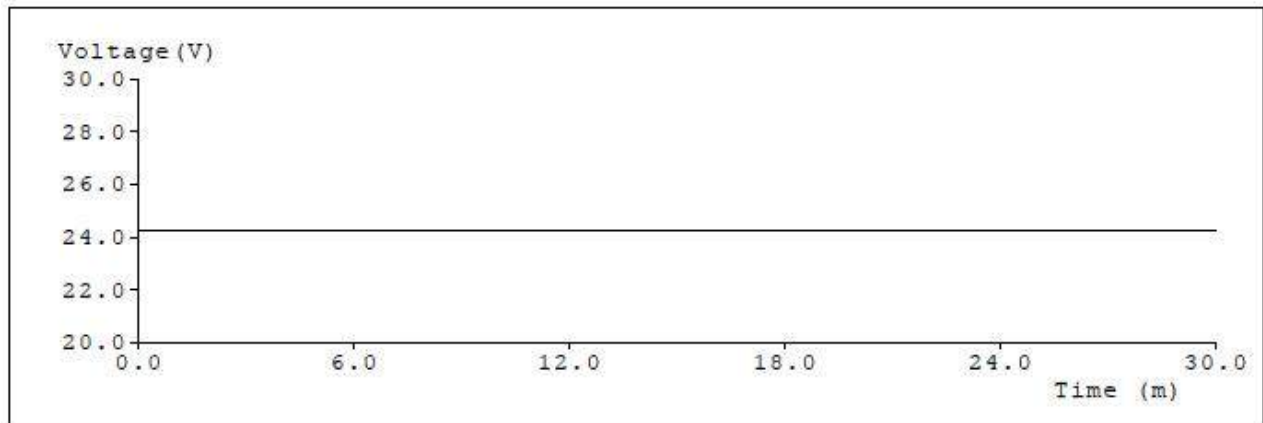
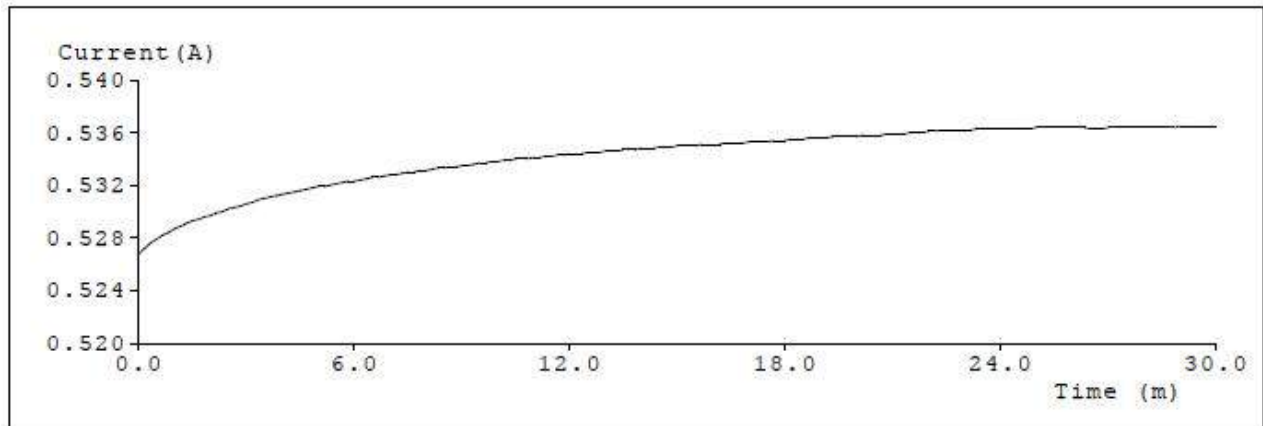
24	00h04m00s	0.5313	24	12.7512	788.98	0.468	0.4065	0.2697	0.527	2559	93.4
25	00h04m10s	0.5314	24	12.7536	788.91	0.4678	0.4064	0.2696	0.5269	2560	93.4
26	00h04m20s	0.5315	24	12.756	788.52	0.468	0.4065	0.2697	0.527	2559	93.3
27	00h04m30s	0.5316	24	12.7584	788.29	0.468	0.4064	0.2697	0.527	2558	93.3
28	00h04m40s	0.5317	24	12.7608	788.09	0.4679	0.4063	0.2697	0.5269	2559	93.4
29	00h04m50s	0.5318	24	12.7632	787.95	0.468	0.4063	0.2697	0.5269	2558	93.3
30	00h05m00s	0.5319	24	12.7656	787.67	0.4679	0.4063	0.2697	0.5269	2559	93.3
31	00h05m10s	0.5319	24	12.7656	786.78	0.4678	0.4061	0.2697	0.5268	2559	93.3
32	00h05m20s	0.532	24	12.768	787.46	0.4679	0.4063	0.2697	0.5269	2559	93.3
33	00h05m30s	0.5321	24	12.7704	786.82	0.468	0.4063	0.2698	0.5269	2557	93.3
34	00h05m40s	0.5322	24	12.7728	786.42	0.4679	0.4062	0.2697	0.5269	2558	93.3
35	00h05m50s	0.5323	24	12.7752	786.39	0.468	0.4062	0.2698	0.5269	2557	93.3
36	00h06m00s	0.5323	24	12.7752	786.25	0.468	0.4063	0.2697	0.5269	2557	93.3
37	00h06m10s	0.5324	24	12.7776	785.72	0.4679	0.4061	0.2698	0.5268	2556	93.3
38	00h06m20s	0.5325	24	12.78	785.71	0.4679	0.4062	0.2698	0.5269	2557	93.3
39	00h06m30s	0.5326	24	12.7824	785.59	0.4679	0.4061	0.2698	0.5268	2557	93.3
40	00h06m40s	0.5326	24	12.7824	784.89	0.4678	0.4061	0.2697	0.5268	2558	93.3
41	00h06m50s	0.5327	24	12.7848	784.67	0.468	0.4063	0.2698	0.5269	2556	93.3
42	00h07m00s	0.5328	24	12.7872	785.08	0.4679	0.4061	0.2698	0.5268	2557	93.3
43	00h07m10s	0.5328	24	12.7872	784.66	0.4679	0.4061	0.2698	0.5268	2558	93.3
44	00h07m20s	0.5329	24	12.7896	784.4	0.468	0.4062	0.2698	0.5269	2557	93.3
45	00h07m30s	0.533	24	12.792	784.31	0.4679	0.4062	0.2697	0.5269	2558	93.3
46	00h07m40s	0.533	24	12.792	784.13	0.4679	0.406	0.2698	0.5268	2556	93.3
47	00h07m50s	0.5331	24	12.7944	783.91	0.4679	0.4061	0.2698	0.5268	2557	93.3
48	00h08m00s	0.5331	24	12.7944	783.18	0.4679	0.4061	0.2698	0.5268	2556	93.3
49	00h08m10s	0.5332	24	12.7968	783.12	0.4679	0.406	0.2698	0.5268	2556	93.3
50	00h08m20s	0.5333	24	12.7992	782.82	0.4679	0.406	0.2698	0.5268	2557	93.2
51	00h08m30s	0.5333	24	12.7992	782.69	0.4679	0.406	0.2698	0.5268	2556	93.2
52	00h08m40s	0.5334	24	12.8016	782.69	0.4679	0.406	0.2699	0.5268	2556	93.2
53	00h08m50s	0.5334	24	12.8016	782.74	0.468	0.4061	0.2698	0.5269	2556	93.2
54	00h09m00s	0.5335	24	12.804	782.44	0.468	0.406	0.2699	0.5268	2555	93.2
55	00h09m10s	0.5335	24	12.804	781.78	0.4679	0.4058	0.2699	0.5267	2555	93.2
56	00h09m20s	0.5336	24	12.8064	782.32	0.468	0.4061	0.2698	0.5268	2556	93.2

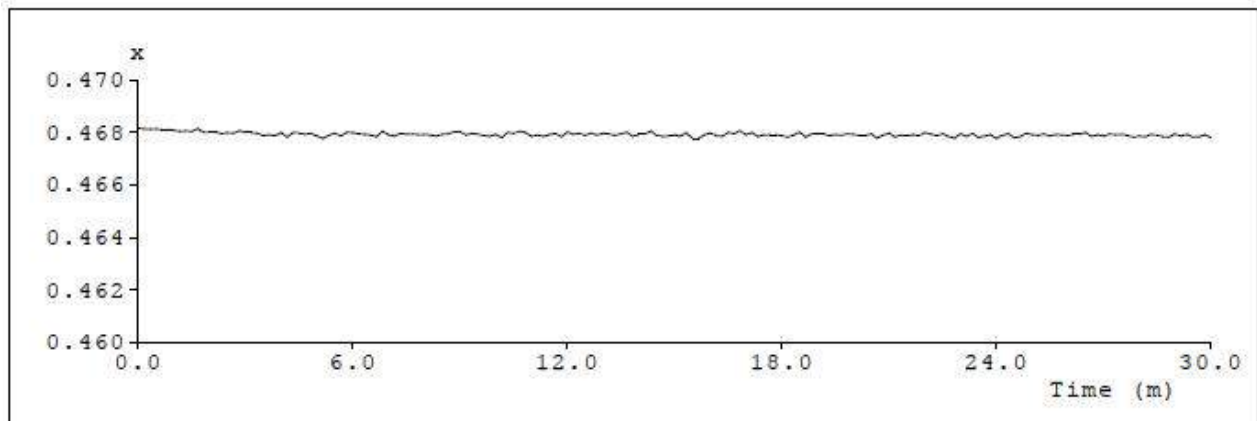
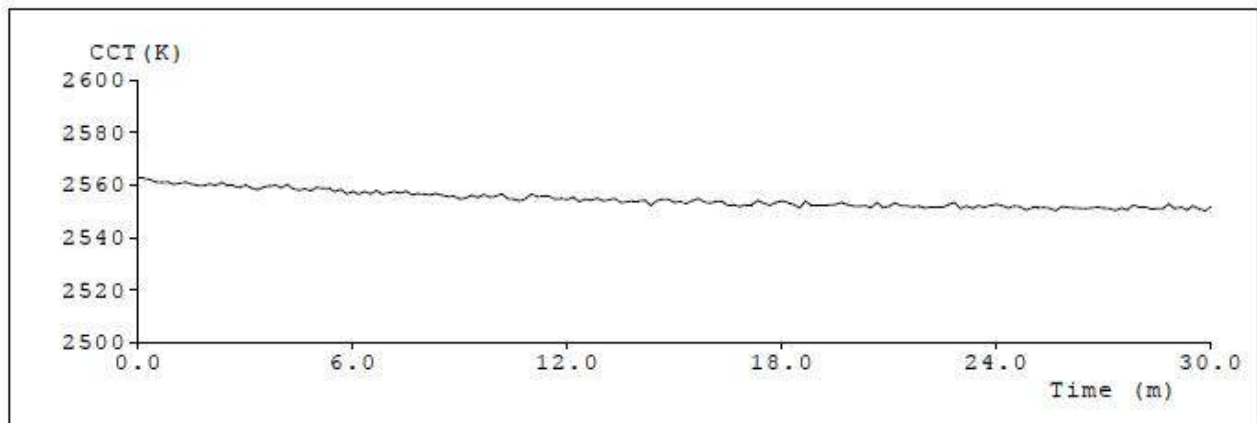
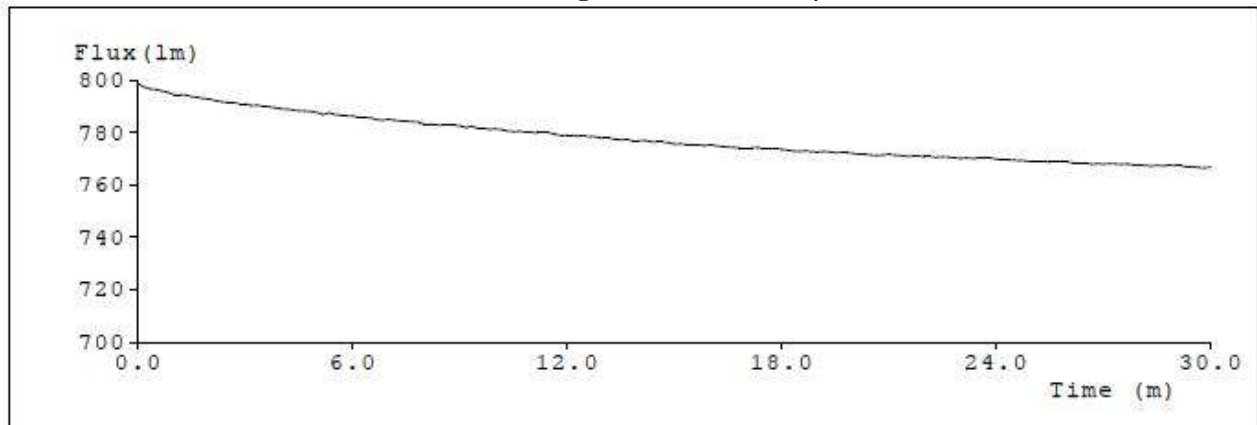
57	00h09m30s	0.5337	24	12.8088	781.42	0.4679	0.4059	0.2699	0.5268	2555	93.2
58	00h09m40s	0.5337	24	12.8088	781.58	0.4679	0.406	0.2698	0.5268	2556	93.2
59	00h09m50s	0.5338	24	12.8112	781.18	0.4679	0.4058	0.2699	0.5267	2555	93.2
60	00h10m00s	0.5338	24	12.8112	781.28	0.4679	0.406	0.2699	0.5268	2556	93.2
61	00h10m10s	0.5339	24	12.8136	781.04	0.4678	0.4059	0.2698	0.5267	2557	93.2
62	00h10m20s	0.5339	24	12.8136	780.6	0.468	0.406	0.2699	0.5268	2555	93.2
63	00h10m30s	0.534	24	12.816	780.32	0.468	0.4059	0.2699	0.5268	2555	93.2
64	00h10m40s	0.534	24	12.816	780.38	0.468	0.4059	0.27	0.5268	2554	93.2
65	00h10m50s	0.534	24	12.816	780.2	0.468	0.406	0.2699	0.5268	2555	93.2
66	00h11m00s	0.5341	24	12.8184	780.04	0.4678	0.4059	0.2698	0.5268	2556	93.2
67	00h11m10s	0.5341	24	12.8184	779.84	0.4679	0.4059	0.2699	0.5268	2556	93.2
68	00h11m20s	0.5342	24	12.8208	779.79	0.4679	0.4058	0.2699	0.5267	2556	93.2
69	00h11m30s	0.5342	24	12.8208	779.73	0.4679	0.4059	0.2699	0.5268	2556	93.2
70	00h11m40s	0.5343	24	12.8232	779.22	0.468	0.4059	0.2699	0.5268	2555	93.2
71	00h11m50s	0.5343	24	12.8232	778.75	0.4678	0.4057	0.2699	0.5267	2555	93.2
72	00h12m00s	0.5344	24	12.8256	778.93	0.468	0.406	0.2699	0.5268	2554	93.2
73	00h12m10s	0.5344	24	12.8256	778.87	0.4679	0.4059	0.2699	0.5268	2555	93.2
74	00h12m20s	0.5344	24	12.8256	778.48	0.468	0.4058	0.27	0.5267	2554	93.1
75	00h12m30s	0.5345	24	12.828	778.56	0.4679	0.4057	0.2699	0.5267	2555	93.1
76	00h12m40s	0.5345	24	12.828	778.41	0.468	0.4058	0.27	0.5268	2554	93.2
77	00h12m50s	0.5345	24	12.828	778.19	0.4679	0.4058	0.2699	0.5267	2555	93.2
78	00h13m00s	0.5346	24	12.8304	777.76	0.468	0.4058	0.27	0.5267	2554	93.1
79	00h13m10s	0.5346	24	12.8304	777.74	0.4679	0.4058	0.27	0.5267	2554	93.2
80	00h13m20s	0.5346	24	12.8304	777.48	0.4679	0.4058	0.2699	0.5267	2555	93.1
81	00h13m30s	0.5347	24	12.8328	777.1	0.4679	0.4057	0.27	0.5267	2553	93.1
82	00h13m40s	0.5347	24	12.8328	777.35	0.468	0.4058	0.27	0.5268	2554	93.1
83	00h13m50s	0.5347	24	12.8328	776.82	0.4679	0.4056	0.27	0.5266	2554	93.2
84	00h14m00s	0.5348	24	12.8352	776.87	0.4679	0.4057	0.27	0.5267	2554	93.1
85	00h14m10s	0.5348	24	12.8352	776.99	0.4679	0.4058	0.27	0.5267	2554	93.1
86	00h14m20s	0.5348	24	12.8352	776.43	0.4681	0.4057	0.2701	0.5267	2552	93.1
87	00h14m30s	0.5349	24	12.8376	776.32	0.4679	0.4057	0.27	0.5267	2554	93.1
88	00h14m40s	0.5349	24	12.8376	776.37	0.4679	0.4057	0.2699	0.5267	2555	93.2
89	00h14m50s	0.5349	24	12.8376	776.11	0.4679	0.4057	0.2699	0.5267	2554	93.1

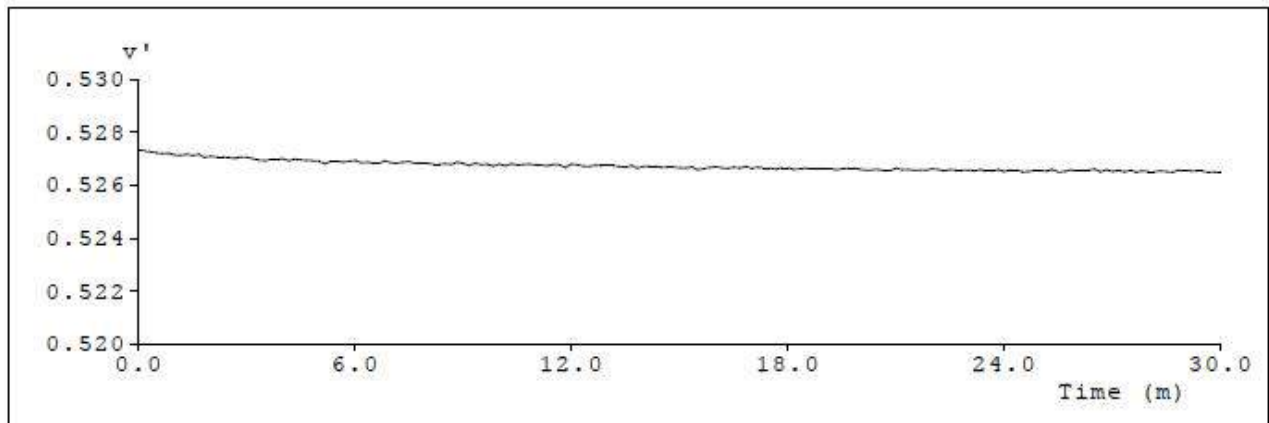
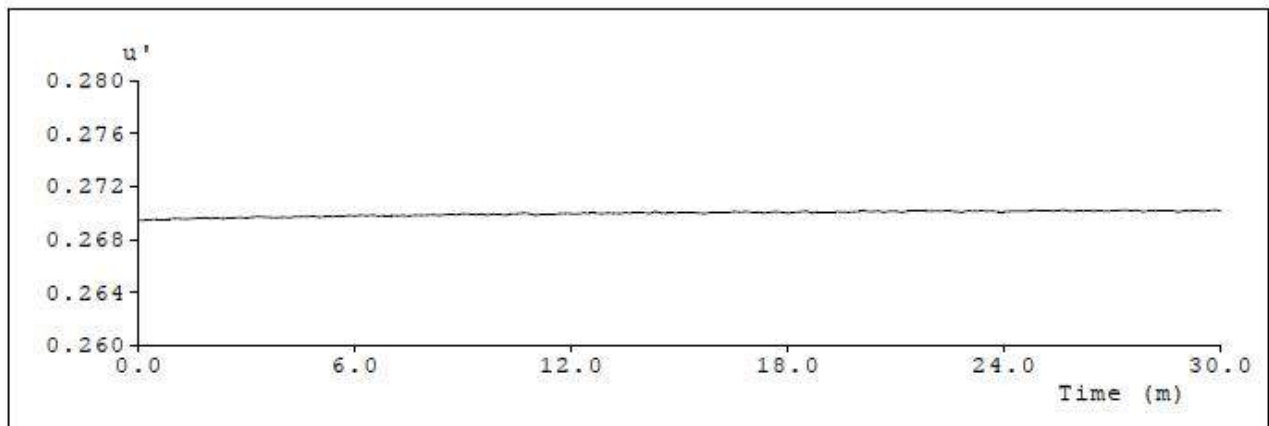
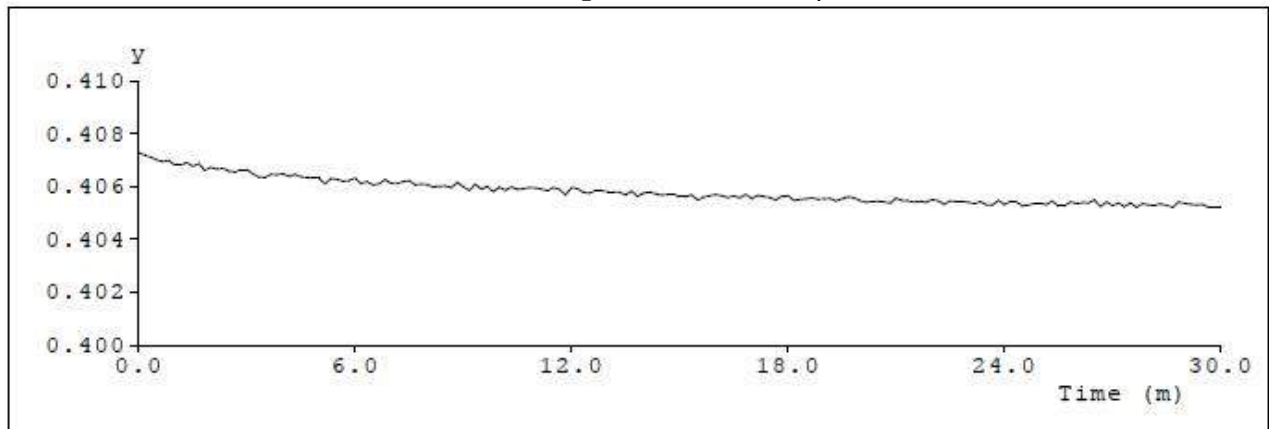
90	00h15m00s	0.535	24	12.84	775.56	0.4679	0.4056	0.27	0.5266	2553	93.1
91	00h15m10s	0.535	24	12.84	775.64	0.4679	0.4056	0.27	0.5266	2554	93.1
92	00h15m20s	0.535	24	12.84	775.34	0.468	0.4057	0.27	0.5267	2553	93.1
93	00h15m30s	0.535	24	12.84	775.24	0.4678	0.4055	0.27	0.5266	2554	93.1
94	00h15m40s	0.5351	24	12.8424	775.29	0.4678	0.4056	0.2699	0.5266	2555	93.1
95	00h15m50s	0.5351	24	12.8424	774.91	0.4679	0.4056	0.27	0.5267	2554	93.1
96	00h16m00s	0.5351	24	12.8424	775.26	0.468	0.4057	0.27	0.5267	2553	93.1
97	00h16m10s	0.5351	24	12.8424	774.95	0.4679	0.4056	0.27	0.5267	2554	93.1
98	00h16m20s	0.5352	24	12.8448	774.5	0.4679	0.4056	0.27	0.5266	2554	93.1
99	00h16m30s	0.5352	24	12.8448	774.39	0.468	0.4056	0.2701	0.5267	2552	93.1
100	00h16m40s	0.5352	24	12.8448	774.22	0.4679	0.4056	0.2701	0.5266	2552	93.1
101	00h16m50s	0.5352	24	12.8448	774.14	0.4681	0.4057	0.2701	0.5267	2552	93
102	00h17m00s	0.5353	24	12.8472	774.14	0.4679	0.4055	0.2701	0.5266	2553	93.1
103	00h17m10s	0.5353	24	12.8472	774.17	0.468	0.4057	0.2701	0.5267	2552	93.1
104	00h17m20s	0.5353	24	12.8472	774.24	0.4679	0.4056	0.27	0.5266	2554	93.1
105	00h17m30s	0.5353	24	12.8472	773.57	0.4679	0.4056	0.27	0.5266	2553	93.1
106	00h17m40s	0.5354	24	12.8496	773.56	0.4679	0.4055	0.2701	0.5266	2552	93.1
107	00h17m50s	0.5354	24	12.8496	773.89	0.4679	0.4056	0.27	0.5267	2553	93.1
108	00h18m00s	0.5354	24	12.8496	773.55	0.4679	0.4056	0.27	0.5267	2554	93.1
109	00h18m10s	0.5355	24	12.852	773.28	0.4678	0.4055	0.27	0.5266	2553	93.1
110	00h18m20s	0.5355	24	12.852	772.81	0.4679	0.4055	0.2701	0.5266	2553	93.1
111	00h18m30s	0.5355	24	12.852	772.72	0.468	0.4055	0.2701	0.5266	2551	93.1
112	00h18m40s	0.5356	24	12.8544	772.97	0.4678	0.4056	0.27	0.5266	2554	93.1
113	00h18m50s	0.5356	24	12.8544	772.53	0.4679	0.4055	0.2701	0.5266	2552	93.1
114	00h19m00s	0.5356	24	12.8544	772.49	0.468	0.4055	0.2701	0.5266	2552	93.1
115	00h19m10s	0.5356	24	12.8544	772.67	0.468	0.4055	0.2701	0.5266	2552	93.1
116	00h19m20s	0.5357	24	12.8568	772.62	0.4679	0.4054	0.2701	0.5266	2552	93.1
117	00h19m30s	0.5357	24	12.8568	772.18	0.4679	0.4055	0.2701	0.5266	2552	93.1
118	00h19m40s	0.5357	24	12.8568	772.31	0.4679	0.4056	0.27	0.5266	2553	93.1
119	00h19m50s	0.5357	24	12.8568	772.39	0.4679	0.4056	0.2701	0.5266	2552	93.1
120	00h20m00s	0.5357	24	12.8568	771.99	0.4679	0.4055	0.2701	0.5266	2552	93
121	00h20m10s	0.5358	24	12.8592	771.66	0.4679	0.4054	0.2701	0.5266	2552	93
122	00h20m20s	0.5358	24	12.8592	771.69	0.4679	0.4054	0.2701	0.5266	2552	93

123	00h20m30s	0.5358	24	12.8592	771.32	0.4679	0.4054	0.2701	0.5266	2551	93.1
124	00h20m40s	0.5358	24	12.8592	771.19	0.4678	0.4054	0.27	0.5266	2553	93.1
125	00h20m50s	0.5359	24	12.8616	771.31	0.4679	0.4054	0.2701	0.5266	2551	93
126	00h21m00s	0.5359	24	12.8616	771.66	0.468	0.4055	0.2701	0.5266	2552	93
127	00h21m10s	0.5359	24	12.8616	771.27	0.4678	0.4055	0.27	0.5266	2553	93
128	00h21m20s	0.5359	24	12.8616	771.16	0.4679	0.4054	0.2701	0.5266	2552	93
129	00h21m30s	0.536	24	12.864	770.79	0.4679	0.4054	0.2701	0.5266	2552	93
130	00h21m40s	0.536	24	12.864	770.92	0.4679	0.4054	0.2701	0.5266	2552	93
131	00h21m50s	0.536	24	12.864	771.1	0.4679	0.4054	0.2701	0.5266	2552	93
132	00h22m00s	0.5361	24	12.8664	770.73	0.468	0.4055	0.2701	0.5266	2551	93.1
133	00h22m10s	0.5361	24	12.8664	770.67	0.4679	0.4054	0.2701	0.5266	2552	93
134	00h22m20s	0.5362	24	12.8688	770.59	0.4679	0.4053	0.2701	0.5265	2551	93
135	00h22m30s	0.5362	24	12.8688	770.65	0.4679	0.4054	0.2701	0.5266	2551	93
136	00h22m40s	0.5362	24	12.8688	770.58	0.4679	0.4054	0.2701	0.5266	2552	93.1
137	00h22m50s	0.5362	24	12.8688	770.26	0.4678	0.4054	0.27	0.5266	2553	93.1
138	00h23m00s	0.5362	24	12.8688	770.03	0.468	0.4054	0.2702	0.5266	2551	93
139	00h23m10s	0.5362	24	12.8688	770.25	0.4678	0.4053	0.2701	0.5265	2552	93
140	00h23m20s	0.5363	24	12.8712	770.04	0.468	0.4054	0.2701	0.5266	2551	93
141	00h23m30s	0.5363	24	12.8712	770.09	0.4678	0.4053	0.2701	0.5265	2552	93
142	00h23m40s	0.5363	24	12.8712	770.14	0.4679	0.4053	0.2701	0.5265	2551	93
143	00h23m50s	0.5363	24	12.8712	770.11	0.4679	0.4055	0.2701	0.5266	2552	93
144	00h24m00s	0.5363	24	12.8712	769.73	0.4678	0.4053	0.2701	0.5265	2553	93
145	00h24m10s	0.5363	24	12.8712	769.46	0.4679	0.4054	0.2701	0.5266	2552	93
146	00h24m20s	0.5363	24	12.8712	769.47	0.4679	0.4054	0.2701	0.5266	2551	93
147	00h24m30s	0.5363	24	12.8712	769.39	0.4678	0.4053	0.2701	0.5265	2552	93.1
148	00h24m40s	0.5363	24	12.8712	769.24	0.4678	0.4053	0.2701	0.5265	2552	93
149	00h24m50s	0.5363	24	12.8712	769.1	0.468	0.4053	0.2702	0.5266	2550	93
150	00h25m00s	0.5364	24	12.8736	768.93	0.4679	0.4054	0.2701	0.5266	2551	93
151	00h25m10s	0.5364	24	12.8736	768.93	0.4679	0.4053	0.2701	0.5265	2551	93
152	00h25m20s	0.5364	24	12.8736	769.03	0.4679	0.4054	0.2701	0.5266	2551	93
153	00h25m30s	0.5364	24	12.8736	768.65	0.4679	0.4053	0.2702	0.5265	2551	93
154	00h25m40s	0.5364	24	12.8736	768.65	0.4679	0.4053	0.2702	0.5265	2550	93
155	00h25m50s	0.5364	24	12.8736	768.6	0.4679	0.4054	0.2701	0.5266	2552	93

156	00h26m00s	0.5364	24	12.8736	768.56	0.4679	0.4053	0.2701	0.5265	2551	93
157	00h26m10s	0.5364	24	12.8736	768.36	0.4679	0.4054	0.2701	0.5266	2551	93
158	00h26m20s	0.5364	24	12.8736	768.34	0.4679	0.4054	0.2701	0.5266	2551	93
159	00h26m30s	0.5363	24	12.8712	768.32	0.468	0.4055	0.2701	0.5266	2551	93
160	00h26m40s	0.5363	24	12.8712	767.79	0.4679	0.4052	0.2702	0.5265	2551	93
161	00h26m50s	0.5363	24	12.8712	768.06	0.4679	0.4054	0.2701	0.5266	2552	93
162	00h27m00s	0.5364	24	12.8736	767.89	0.4679	0.4053	0.2701	0.5265	2551	93
163	00h27m10s	0.5364	24	12.8736	768.07	0.4679	0.4054	0.2702	0.5266	2551	93
164	00h27m20s	0.5364	24	12.8736	767.95	0.4679	0.4052	0.2702	0.5265	2550	93
165	00h27m30s	0.5364	24	12.8736	767.81	0.4679	0.4054	0.2701	0.5266	2551	93
166	00h27m40s	0.5364	24	12.8736	767.99	0.4679	0.4052	0.2702	0.5265	2550	93
167	00h27m50s	0.5364	24	12.8736	767.54	0.4678	0.4053	0.2701	0.5265	2552	93
168	00h28m00s	0.5364	24	12.8736	767.59	0.4679	0.4053	0.2701	0.5265	2551	93
169	00h28m10s	0.5364	24	12.8736	767.39	0.4678	0.4053	0.2701	0.5265	2552	93
170	00h28m20s	0.5364	24	12.8736	767.2	0.4679	0.4053	0.2702	0.5265	2551	93
171	00h28m30s	0.5364	24	12.8736	767.3	0.4679	0.4053	0.2702	0.5265	2551	92.9
172	00h28m40s	0.5364	24	12.8736	767.15	0.4678	0.4052	0.2702	0.5265	2551	93
173	00h28m50s	0.5364	24	12.8736	767.55	0.4678	0.4054	0.2701	0.5266	2553	93
174	00h29m00s	0.5365	24	12.876	767.18	0.4679	0.4054	0.2702	0.5266	2551	93
175	00h29m10s	0.5365	24	12.876	767.24	0.4679	0.4053	0.2701	0.5265	2552	93
176	00h29m20s	0.5365	24	12.876	766.86	0.4679	0.4053	0.2702	0.5265	2550	93
177	00h29m30s	0.5365	24	12.876	766.94	0.4678	0.4053	0.2701	0.5265	2552	93
178	00h29m40s	0.5365	24	12.876	766.59	0.4678	0.4052	0.2702	0.5265	2551	93
179	00h29m50s	0.5365	24	12.876	766.43	0.4679	0.4052	0.2702	0.5265	2550	93
180	00h30m00s	0.5365	24	12.876	766.71	0.4678	0.4052	0.2701	0.5265	2552	93

Test curves





*5.2 ANSI/IES TM-30-18 Color Rendition Report

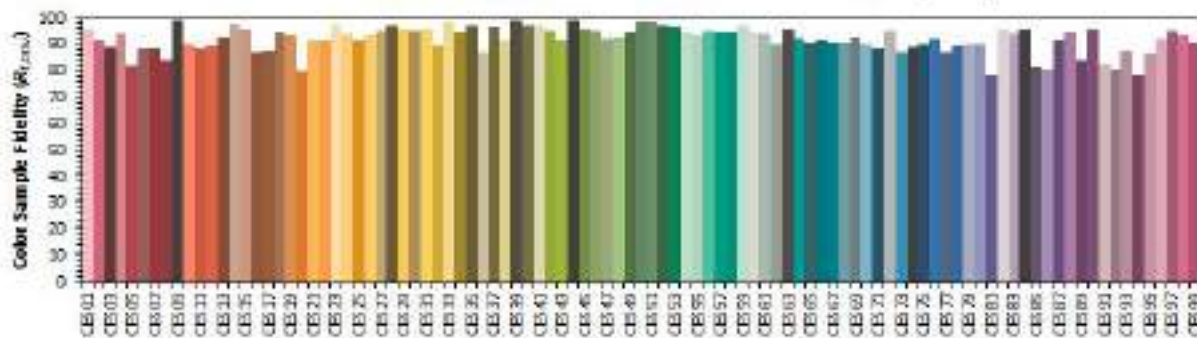
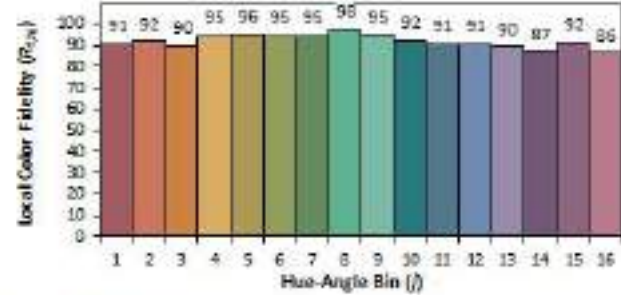
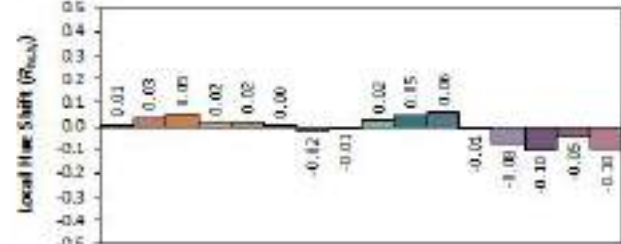
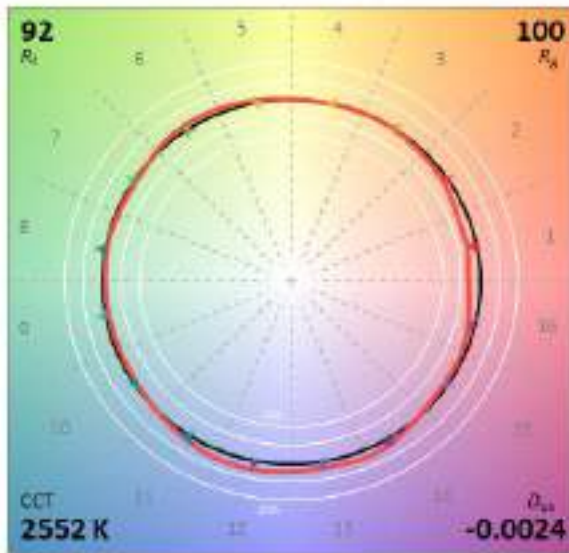
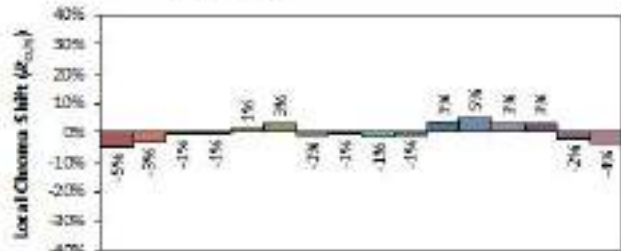
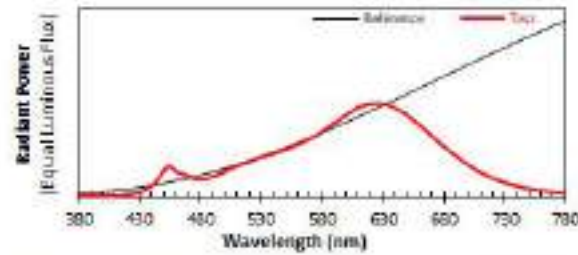
ANSI/IES TM-30-18 Color Rendition Report

Source:

Manufacturer: Guangdong Lunanhub Technology Co., Ltd

Date: 2025/3/14

Model: LVPF40-0500V-L27-SP2-O-24-C (Vivaxy FLEX rail)



Notes: This is a recommended method for displaying ANSI/IES TM-30-18 information.

x 0.4681

y 0.4057

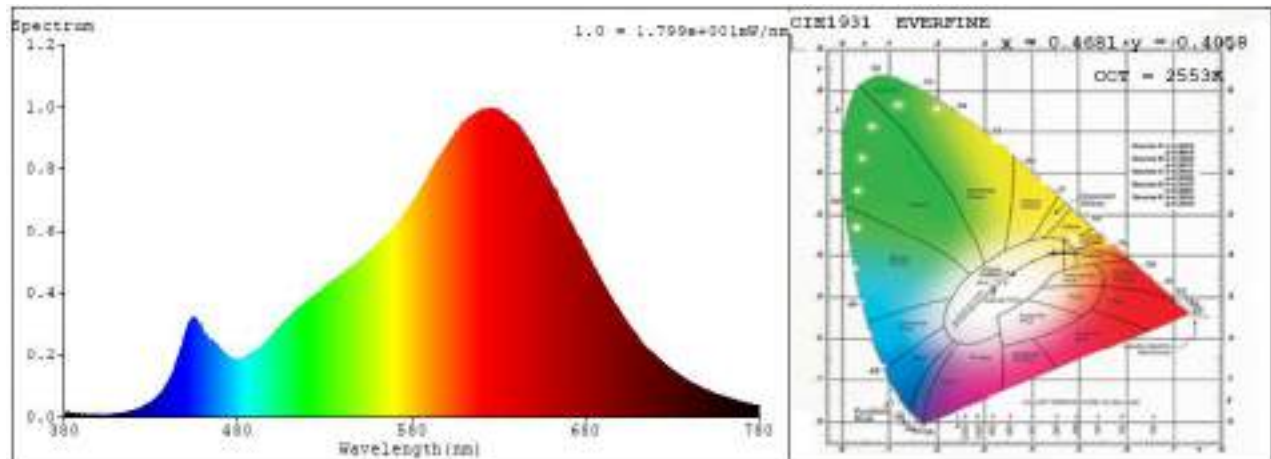
u' 0.2701

v' 0.5267

CIE 13.3-1995
(CRI)R_a 93R_g 80

Colors are for visual orientation purposes only. Created with the ANSI/IES TM-30-18 Calculator Version 2.00.

5.3 Relative Spectral Power Distribution



nm	mW	nm	mW	nm	mW	nm	mW	nm	mW
380	0.008	414	0.0105	448	0.2357	482	0.1858	516	0.3542
381	0.0083	415	0.0122	449	0.2618	483	0.1849	517	0.3592
382	0.0094	416	0.0148	450	0.2744	484	0.1887	518	0.3608
383	0.0107	417	0.015	451	0.289	485	0.1905	519	0.3681
384	0.0027	418	0.0156	452	0.304	486	0.1947	520	0.3734
385	0.0072	419	0.0176	453	0.3155	487	0.1956	521	0.3726
386	0.0023	420	0.0202	454	0.3225	488	0.2038	522	0.3806
387	0.0084	421	0.0203	455	0.3132	489	0.204	523	0.384
388	0.0056	422	0.0215	456	0.3103	490	0.212	524	0.3888
389	0.006	423	0.0249	457	0.2998	491	0.2181	525	0.3911
390	0.0035	424	0.0273	458	0.2948	492	0.2188	526	0.3983
391	0.0051	425	0.0275	459	0.2819	493	0.2245	527	0.4043
392	0.0076	426	0.0328	460	0.2745	494	0.2305	528	0.4086
393	0.0046	427	0.036	461	0.262	495	0.2357	529	0.4093
394	0.0013	428	0.0397	462	0.2536	496	0.2429	530	0.4143
395	0.0023	429	0.042	463	0.2491	497	0.2495	531	0.4199
396	0.0031	430	0.0447	464	0.2478	498	0.2529	532	0.4231
397	0.004	431	0.051	465	0.2425	499	0.2579	533	0.4272
398	0.004	432	0.0549	466	0.2367	500	0.2665	534	0.4349
399	0.0042	433	0.0611	467	0.2335	501	0.2705	535	0.4362
400	0.0042	434	0.0632	468	0.233	502	0.2779	536	0.4371
401	0.0067	435	0.0747	469	0.221	503	0.2862	537	0.4448
402	0.0022	436	0.0761	470	0.2213	504	0.2893	538	0.4495
403	0.0062	437	0.0878	471	0.2146	505	0.2941	539	0.4516
404	0.0064	438	0.0933	472	0.2041	506	0.3005	540	0.4562
405	0.0052	439	0.1052	473	0.2002	507	0.3074	541	0.4607
406	0.0061	440	0.1123	474	0.195	508	0.3146	542	0.4602
407	0.005	441	0.1213	475	0.1883	509	0.3177	543	0.4669
408	0.0047	442	0.1327	476	0.1849	510	0.3245	544	0.4739
409	0.0098	443	0.1489	477	0.1832	511	0.3267	545	0.4783
410	0.0078	444	0.1662	478	0.184	512	0.3326	546	0.4801
411	0.0095	445	0.1843	479	0.183	513	0.3391	547	0.4878
412	0.0096	446	0.199	480	0.1806	514	0.3414	548	0.4901
413	0.0106	447	0.2181	481	0.1813	515	0.3508	549	0.4972

nm	mW	nm	mW	nm	mW	nm	mW	nm	mW
550	0.5	599	0.8539	648	0.8768	697	0.3619	746	0.0958
551	0.5037	600	0.8655	649	0.8742	698	0.3544	747	0.0908
552	0.5051	601	0.8722	650	0.8618	699	0.3454	748	0.0892
553	0.5175	602	0.8824	651	0.8537	700	0.3375	749	0.0876
554	0.5184	603	0.8904	652	0.8473	701	0.3295	750	0.0849
555	0.5239	604	0.8988	653	0.8331	702	0.3177	751	0.0833
556	0.5287	605	0.9084	654	0.8236	703	0.3114	752	0.079
557	0.5365	606	0.9169	655	0.8133	704	0.3025	753	0.0768
558	0.5465	607	0.9242	656	0.8054	705	0.2969	754	0.0755
559	0.5465	608	0.9293	657	0.7902	706	0.288	755	0.0732
560	0.549	609	0.946	658	0.7812	707	0.2802	756	0.0713
561	0.5534	610	0.9426	659	0.7715	708	0.2733	757	0.0688
562	0.5633	611	0.9535	660	0.7573	709	0.2667	758	0.0661
563	0.5664	612	0.9593	661	0.747	710	0.2575	759	0.0646
564	0.5743	613	0.9617	662	0.7348	711	0.2539	760	0.0638
565	0.5824	614	0.9648	663	0.7336	712	0.2447	761	0.0621
566	0.5868	615	0.9731	664	0.7188	713	0.2397	762	0.0601
567	0.5949	616	0.9778	665	0.7031	714	0.2327	763	0.0569
568	0.6026	617	0.9837	666	0.6928	715	0.225	764	0.0564
569	0.6085	618	0.9754	667	0.6805	716	0.2202	765	0.0548
570	0.6138	619	0.9804	668	0.6701	717	0.2107	766	0.0541
571	0.6195	620	0.9909	669	0.6526	718	0.2072	767	0.0513
572	0.6302	621	0.9832	670	0.6436	719	0.2059	768	0.0503
573	0.6363	622	0.9907	671	0.6373	720	0.1978	769	0.0488
574	0.6382	623	0.9893	672	0.6244	721	0.1913	770	0.0463
575	0.6489	624	0.9923	673	0.6095	722	0.189	771	0.0455
576	0.6548	625	0.9865	674	0.5987	723	0.1819	772	0.045
577	0.6662	626	0.9935	675	0.5853	724	0.1762	773	0.0422
578	0.6756	627	0.9913	676	0.577	725	0.1727	774	0.0416
579	0.6793	628	0.9904	677	0.5642	726	0.165	775	0.0408
580	0.6874	629	0.9853	678	0.5552	727	0.1615	776	0.0399
581	0.6988	630	0.9871	679	0.5436	728	0.1585	777	0.0388
582	0.7077	631	0.9841	680	0.5283	729	0.1523	778	0.0368
583	0.7176	632	0.9777	681	0.5213	730	0.1502	779	0.0356
584	0.7228	633	0.9804	682	0.5147	731	0.147	780	0.0357
585	0.7347	634	0.975	683	0.5002	732	0.1406		
586	0.7419	635	0.9738	684	0.492	733	0.1372		
587	0.7503	636	0.959	685	0.4818	734	0.1328		
588	0.7587	637	0.9585	686	0.4725	735	0.1297		
589	0.7715	638	0.9574	687	0.4611	736	0.1254		
590	0.7857	639	0.9479	688	0.4515	737	0.1235		
591	0.7843	640	0.9399	689	0.4402	738	0.1182		
592	0.7938	641	0.9384	690	0.4293	739	0.1175		
593	0.8091	642	0.922	691	0.4218	740	0.1137		
594	0.8153	643	0.9197	692	0.4108	741	0.1089		
595	0.8246	644	0.9142	693	0.3968	742	0.1064		
596	0.8339	645	0.9055	694	0.3896	743	0.1039		
597	0.8406	646	0.9005	695	0.3805	744	0.1001		
598	0.8511	647	0.8928	696	0.3693	745	0.0971		

6. Goniophotometer Test results for LVFK40-0500W-L27-SP2-O-24-G(Vivoxy FLEX rail)

6.1 Test Data

Test Ambient Temperature	25.2°C	Test orientation	Downward
Operate time(Min.)	90	stabilization time(Min.)	30

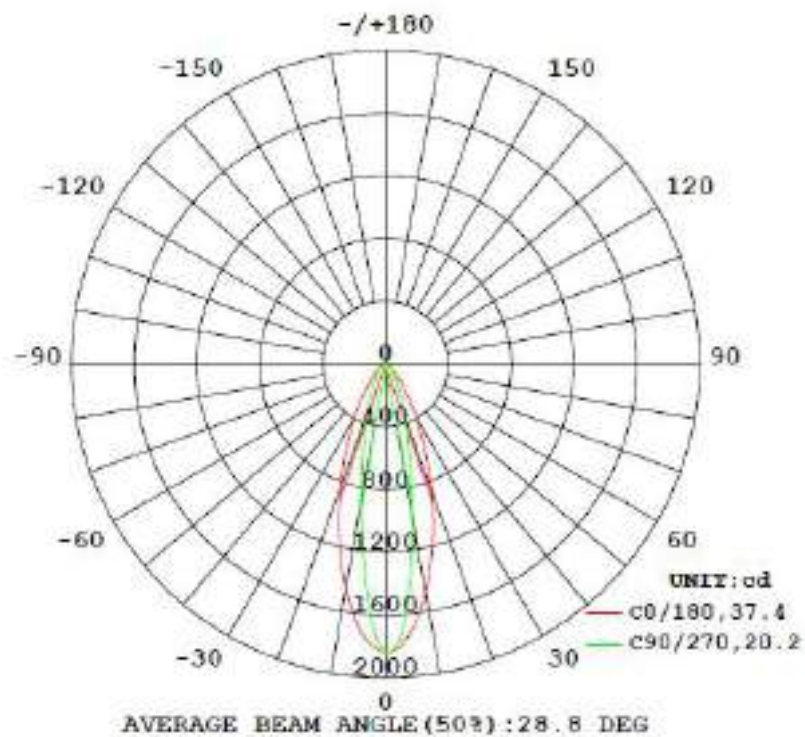
Electrical Measurement

Input Voltage (V)	Frequency (Hz)	Input Current(A)	Power Factor	Power(W)
24	--	0.528	1.0000	12.67

Optical Measurement

Luminous Flux (lm)	Efficacy(lm/W)	I _{max} (cd)	S/MH(C0/180)	S/MH(C90/270)
768.21	60.62	1841	0.59	0.32

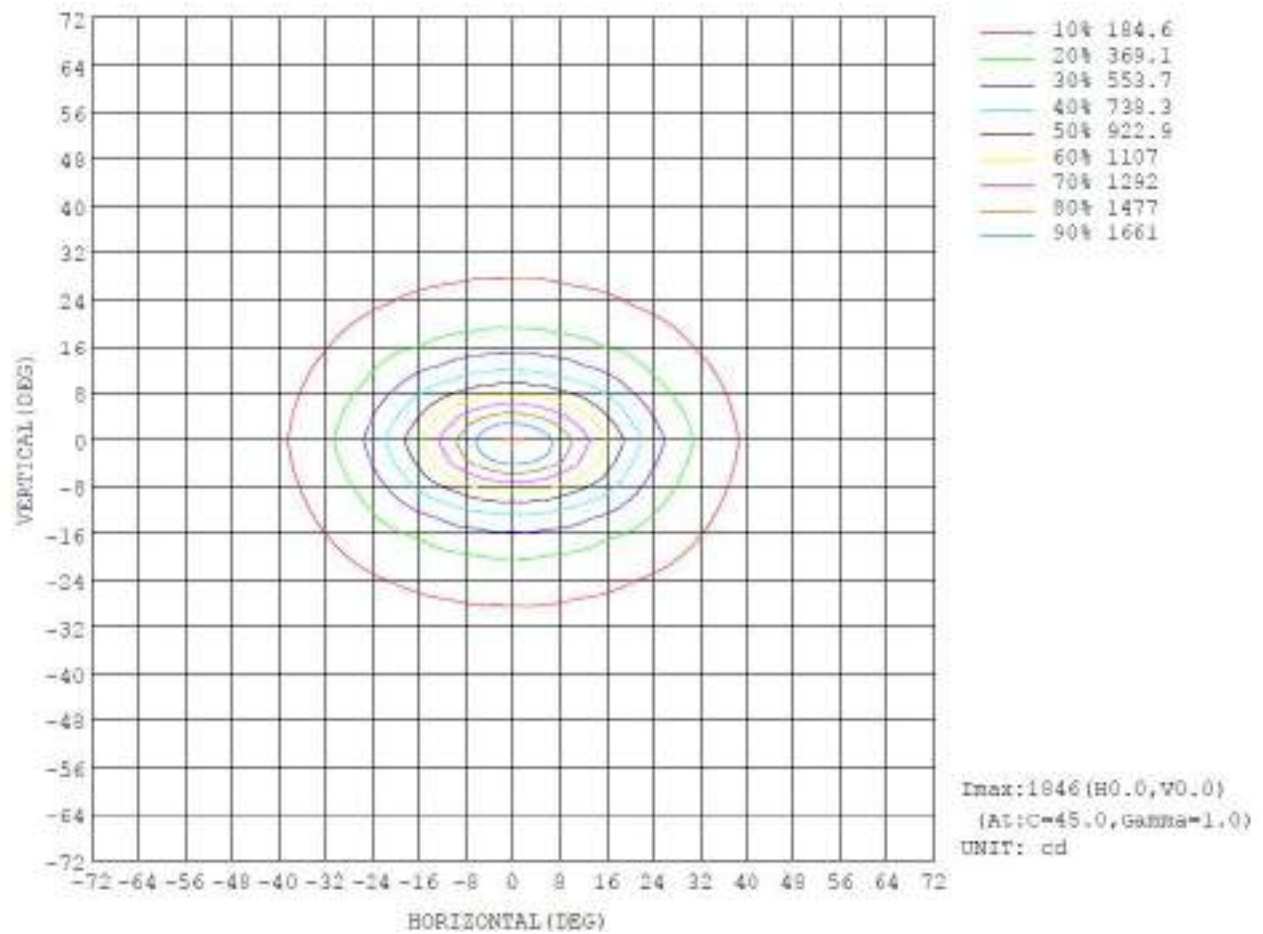
6.2 Luminous Intensity Distribution



6.3 Zonal Flux Diagram

Y	C0	C45	C90	C135	C180	C225	C270	C315	Y	Φ zone	Φ total	flux, lamp
10	1476	1205	989.2	1199	1492	1089	876.7	1669	0- 10	139.8	139.8	19.18
20	852.4	495.4	373.5	489.3	830.5	466.3	340.3	441.3	10- 20	229.3	369.8	46.7, 46.7
30	385.7	211.8	163.8	218.1	388.2	198.5	152.5	199.8	20- 30	149.4	522.8	48.48
40	159.4	103.5	85.29	165.2	158.5	101.0	82.94	97.47	30- 40	106.8	629.2	41.1, 41.1
50	69.31	58.58	53.58	68.28	69.82	58.79	52.41	57.66	40- 50	62.23	695.2	39.3, 39.3
60	40.39	36.58	33.36	36.76	40.38	35.86	31.29	35.76	50- 60	42.08	727.8	34.7, 34.7
70	22.88	19.64	18.19	19.80	22.70	18.32	12.94	18.42	60- 70	28.92	794.5	33.2, 33.2
80	8.207	4.454	2.304	4.477	7.454	2.831	1.504	3.182	70- 80	11.43	745.8	28.7, 28.7
90	0.0047	0.0279	0.0970	0.0284	0.0137	0	0.0052	0	80- 90	1.381	767.3	28.3, 28.3
100	0	0	0	0	0	0	0	0	90-100	0.0012	767.3	28.3, 28.3
110	0	0	0	0	0	0	0	0	100-110	0	767.3	28.3, 28.3
120	0	0	0	0	0	0	0	0	110-120	0	767.3	28.3, 28.3
130	0	0	0	0	0	0	0	0	120-130	0	767.3	28.3, 28.3
140	0.0989	0.0982	0.0811	0.0849	0.2239	0.1998	0.1395	0.2044	130-140	0.0272	767.3	28.3, 28.3
150	0.2263	0.2049	0.2411	0.2191	0.5816	0.6146	0.6276	0.4452	140-150	0.1760	767.7	28.3, 28.3
160	0.3467	0.3995	0.4072	0.3504	0.8546	0.8876	0.9869	1.034	150-160	0.2586	768.8	102.180
170	0.4658	0.4347	0.4470	0.4033	0.7961	0.7917	0.8836	0.9140	160-170	0.1858	768.2	102.180
180	0.3971	0.5772	0.5649	0.5890	0.3965	0.5037	0.5787	0.3773	170-180	0.0380	768.2	102.180
080	LAMPINGS INTENSITY:cd									UNIT:lm		

6.4 Isocandela Diagram



6.5 Luminous Distribution Intensity Data

Table--1

UNIT: cd

C (DEG) r (DEG)	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5			
0	1035	1035	1035	1035	1035	1035	1035	1035	1035	1035	1035	1035	1035	1035	1035	1035			
5	1735	1730	1664	1601	1567	1599	1664	1720	1720	1659	1542	1461	1419	1448	1539	1654			
10	1474	1409	1205	1044	985	1040	1193	1391	1462	1295	1049	922	877	921	1069	1301			
15	1141	1035	780	636	593	633	769	1013	1133	931	692	570	534	566	689	936			
20	852	705	495	400	373	402	489	690	821	625	444	364	340	362	441	625			
25	593	467	320	260	244	263	319	455	579	423	297	241	224	237	290	419			
30	396	303	212	174	163	176	213	298	388	282	199	154	152	161	193	277			
35	255	198	145	122	115	124	147	196	261	186	139	117	109	114	134	181			
40	159	121	103	89.3	85.2	90.1	105	131	159	127	101	87.0	82.6	85.4	97.5	123			
45	99.5	90.0	77.2	69.1	66.5	69.6	78.3	91.0	102	88.6	75.3	67.8	63.2	66.5	73.8	86.0			
50	68.3	63.1	59.6	55.1	53.6	55.4	60.3	66.0	69.8	64.9	58.8	54.1	52.4	53.6	57.7	63.4			
55	51.8	49.7	46.8	44.1	42.9	44.4	47.1	50.1	52.1	49.6	46.1	43.3	41.6	42.9	45.6	49.0			
60	40.4	38.8	36.5	34.6	33.4	34.8	36.8	38.9	40.4	38.6	36.0	33.2	31.3	32.9	35.8	38.6			
65	31.5	29.9	27.7	25.3	24.0	25.5	27.9	29.7	30.5	29.4	27.2	23.5	21.8	23.4	27.1	29.8			
70	22.7	21.7	19.4	16.3	15.1	16.5	19.5	21.3	22.7	21.1	19.3	14.3	12.9	14.3	16.4	21.8			
75	13.9	13.5	11.5	8.65	7.73	8.79	11.4	13.5	14.7	13.2	9.51	6.54	5.68	6.66	9.86	13.5			
80	8.21	6.91	4.45	2.69	2.30	2.77	4.48	6.77	7.66	6.14	2.93	1.35	1.31	1.70	3.10	6.44			
85	2.45	1.62	0.70	0.80	0.80	0.75	0.79	1.60	2.70	1.27	0.48	0.48	0.59	0.59	0.82	1.27			
90	0.00	0.00	0.03	0.69	0.10	0.08	0.03	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
105	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
115	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
120	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
125	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
130	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
135	0.01	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.06	0.04	0.00	0.00	0.00	0.04	0.07			
140	0.10	0.11	0.10	0.06	0.04	0.04	0.06	0.08	0.22	0.22	0.20	0.16	0.14	0.16	0.28	0.23			
145	0.17	0.20	0.21	0.18	0.16	0.15	0.15	0.15	0.41	0.42	0.41	0.39	0.37	0.39	0.43	0.44			
150	0.23	0.26	0.29	0.28	0.26	0.24	0.22	0.20	0.58	0.59	0.62	0.62	0.62	0.64	0.65	0.63			
155	0.30	0.34	0.37	0.39	0.37	0.34	0.31	0.29	0.76	0.76	0.79	0.83	0.85	0.87	0.86	0.82			
160	0.35	0.38	0.40	0.41	0.41	0.38	0.35	0.33	0.86	0.85	0.89	0.94	0.99	1.03	1.00	0.96			
165	0.37	0.39	0.41	0.41	0.42	0.41	0.37	0.35	0.85	0.84	0.86	0.91	0.97	1.03	1.00	0.96			
170	0.41	0.42	0.43	0.44	0.45	0.43	0.40	0.39	0.80	0.80	0.79	0.82	0.86	0.90	0.91	0.88			
175	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.47	0.71	0.72	0.70	0.71	0.73	0.74	0.76	0.76			
180	0.40	0.59	0.50	0.57	0.56	0.50	0.59	0.59	0.60	0.60	0.59	0.58	0.57	0.58	0.58	0.59			

7. Integrating Sphere Test Results for LVFK40-0500W-L27-SP2-O-24-G(Vivoxy FLEX rail+shield)

7.1 Test Data

Test Ambient Temperature (Integrating sphere internal temperature)	25.1℃	Test orientation	Downward
Operate time(Min.)	30	stabilization time(Min.)	0

Optical and Electrical Measurement Result

Number	Time	Current (A)	Voltage (V)	Power (W)	Flux(lm)	x	y	u'	v'	CCT (K)	Ra
0	00h00m00s	0.5303	24	12.7272	727.84	0.468	0.4076	0.2691	0.5274	2568	93.5
1	00h00m10s	0.5316	24	12.7584	726.34	0.4679	0.4074	0.2692	0.5274	2567	93.5
2	00h00m20s	0.5323	24	12.7752	725.31	0.4679	0.4074	0.2692	0.5274	2567	93.4
3	00h00m30s	0.5328	24	12.7872	724.07	0.468	0.4072	0.2694	0.5273	2564	93.4
4	00h00m40s	0.5332	24	12.7968	723.35	0.4678	0.4071	0.2693	0.5272	2566	93.4
5	00h00m50s	0.5336	24	12.8064	722.46	0.4678	0.407	0.2693	0.5272	2566	93.4
6	00h01m00s	0.5338	24	12.8112	722.33	0.4679	0.4071	0.2693	0.5272	2564	93.4
7	00h01m10s	0.5341	24	12.8184	721.73	0.4677	0.407	0.2692	0.5272	2567	93.4
8	00h01m20s	0.5343	24	12.8232	721.37	0.4678	0.4069	0.2694	0.5271	2564	93.4
9	00h01m30s	0.5346	24	12.8304	721.07	0.4677	0.4068	0.2693	0.5271	2566	93.4
10	00h01m40s	0.5347	24	12.8328	720.44	0.4677	0.4067	0.2694	0.5271	2565	93.3
11	00h01m50s	0.5349	24	12.8376	720.15	0.4678	0.4068	0.2694	0.5271	2563	93.3
12	00h02m00s	0.5351	24	12.8424	719.77	0.4677	0.4068	0.2693	0.5271	2565	93.3
13	00h02m10s	0.5352	24	12.8448	719.46	0.4677	0.4067	0.2694	0.5271	2564	93.3
14	00h02m20s	0.5353	24	12.8472	719.04	0.4678	0.4067	0.2694	0.5271	2563	93.3
15	00h02m30s	0.5355	24	12.852	718.43	0.4677	0.4066	0.2694	0.527	2564	93.3
16	00h02m40s	0.5356	24	12.8544	718.36	0.4678	0.4066	0.2695	0.527	2562	93.3
17	00h02m50s	0.5357	24	12.8568	718.02	0.4676	0.4066	0.2694	0.527	2565	93.3
18	00h03m00s	0.5358	24	12.8592	717.76	0.4677	0.4065	0.2695	0.527	2563	93.2
19	00h03m10s	0.5359	24	12.8616	717.58	0.4677	0.4066	0.2694	0.527	2563	93.3
20	00h03m20s	0.536	24	12.864	717.12	0.4677	0.4066	0.2694	0.527	2564	93.3
21	00h03m30s	0.5361	24	12.8664	716.9	0.4677	0.4066	0.2695	0.527	2563	93.2
22	00h03m40s	0.5362	24	12.8688	716.85	0.4676	0.4065	0.2694	0.5269	2563	93.2
23	00h03m50s	0.5363	24	12.8712	716.32	0.4676	0.4064	0.2695	0.5269	2563	93.2

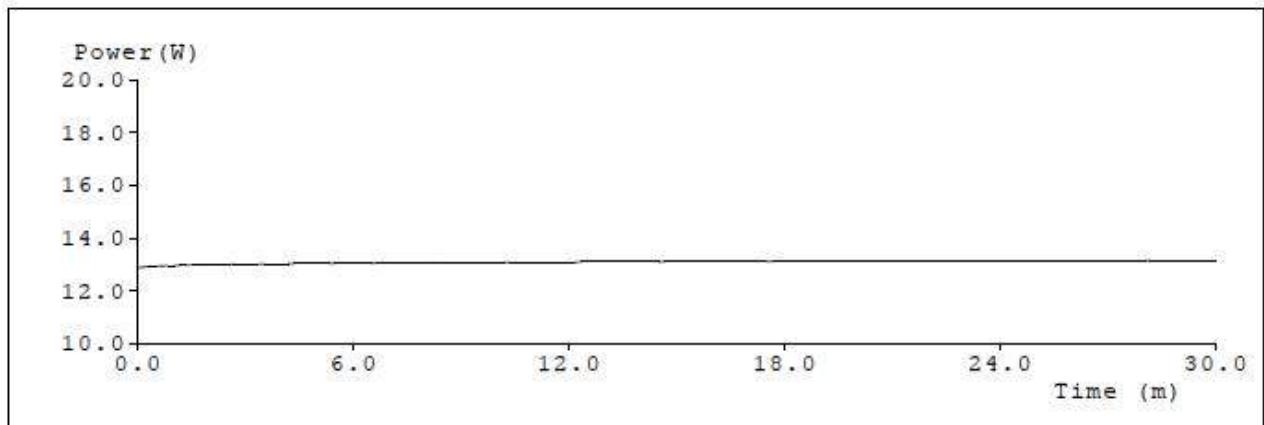
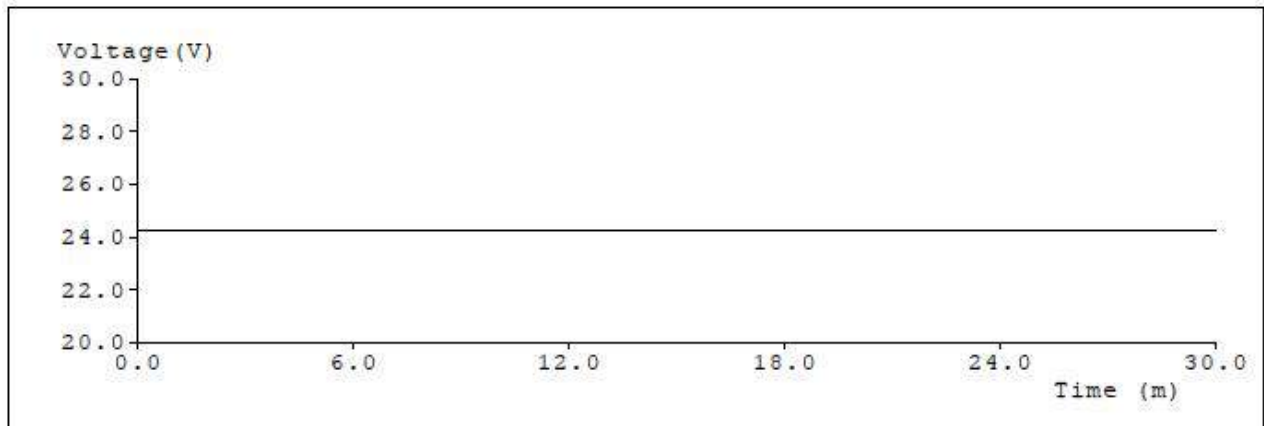
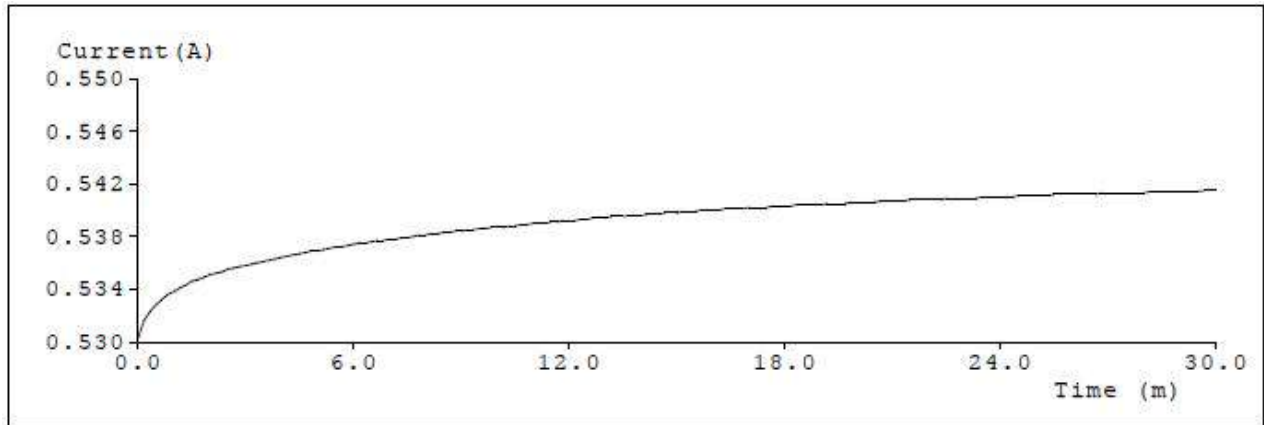
24	00h04m00s	0.5364	24	12.8736	716.09	0.4677	0.4065	0.2695	0.527	2563	93.2
25	00h04m10s	0.5365	24	12.876	715.91	0.4677	0.4063	0.2695	0.5269	2562	93.2
26	00h04m20s	0.5366	24	12.8784	715.69	0.4676	0.4064	0.2694	0.5269	2563	93.3
27	00h04m30s	0.5367	24	12.8808	715.67	0.4677	0.4066	0.2694	0.527	2563	93.3
28	00h04m40s	0.5368	24	12.8832	715.51	0.4677	0.4064	0.2695	0.5269	2563	93.2
29	00h04m50s	0.5369	24	12.8856	714.85	0.4677	0.4063	0.2695	0.5269	2562	93.2
30	00h05m00s	0.5369	24	12.8856	714.88	0.4676	0.4064	0.2695	0.5269	2563	93.2
31	00h05m10s	0.537	24	12.888	714.55	0.4675	0.4063	0.2695	0.5269	2563	93.2
32	00h05m20s	0.5371	24	12.8904	714.4	0.4676	0.4062	0.2696	0.5269	2561	93.2
33	00h05m30s	0.5372	24	12.8928	713.81	0.4677	0.4062	0.2696	0.5269	2561	93.2
34	00h05m40s	0.5372	24	12.8928	713.88	0.4676	0.4063	0.2695	0.5269	2562	93.2
35	00h05m50s	0.5373	24	12.8952	713.77	0.4676	0.4063	0.2695	0.5269	2562	93.2
36	00h06m00s	0.5374	24	12.8976	713.71	0.4676	0.4062	0.2695	0.5268	2562	93.1
37	00h06m10s	0.5375	24	12.9	713.46	0.4675	0.4062	0.2695	0.5268	2563	93.2
38	00h06m20s	0.5375	24	12.9	713.35	0.4675	0.4061	0.2695	0.5268	2562	93.2
39	00h06m30s	0.5376	24	12.9024	713.01	0.4676	0.4063	0.2695	0.5269	2563	93.2
40	00h06m40s	0.5377	24	12.9048	712.84	0.4677	0.4063	0.2696	0.5269	2561	93.2
41	00h06m50s	0.5377	24	12.9048	712.85	0.4676	0.4061	0.2695	0.5268	2562	93.2
42	00h07m00s	0.5378	24	12.9072	712.1	0.4676	0.4061	0.2696	0.5268	2561	93.1
43	00h07m10s	0.5378	24	12.9072	712.34	0.4676	0.4061	0.2695	0.5268	2562	93.2
44	00h07m20s	0.5379	24	12.9096	711.83	0.4676	0.4062	0.2695	0.5268	2562	93.2
45	00h07m30s	0.5379	24	12.9096	712.27	0.4677	0.4063	0.2696	0.5269	2561	93.1
46	00h07m40s	0.538	24	12.912	711.68	0.4678	0.4062	0.2697	0.5268	2560	93.1
47	00h07m50s	0.5381	24	12.9144	711.57	0.4674	0.4061	0.2695	0.5268	2563	93.2
48	00h08m00s	0.5381	24	12.9144	711.29	0.4677	0.4062	0.2696	0.5268	2560	93.1
49	00h08m10s	0.5382	24	12.9168	711.35	0.4677	0.4062	0.2696	0.5268	2561	93.1
50	00h08m20s	0.5382	24	12.9168	710.87	0.4677	0.4061	0.2696	0.5268	2561	93.1
51	00h08m30s	0.5383	24	12.9192	710.79	0.4676	0.406	0.2696	0.5268	2561	93.1
52	00h08m40s	0.5383	24	12.9192	711.07	0.4676	0.406	0.2696	0.5268	2561	93.1
53	00h08m50s	0.5384	24	12.9216	710.64	0.4676	0.4061	0.2696	0.5268	2561	93.1
54	00h09m00s	0.5384	24	12.9216	710.73	0.4676	0.4061	0.2696	0.5268	2561	93.1
55	00h09m10s	0.5385	24	12.924	710.2	0.4676	0.406	0.2696	0.5268	2560	93.1
56	00h09m20s	0.5385	24	12.924	709.89	0.4676	0.406	0.2697	0.5267	2560	93.1

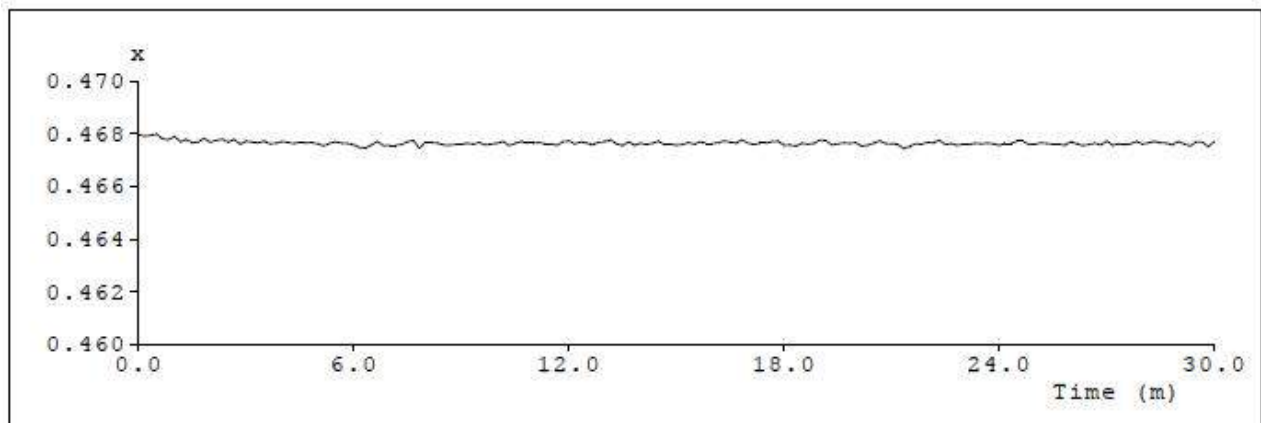
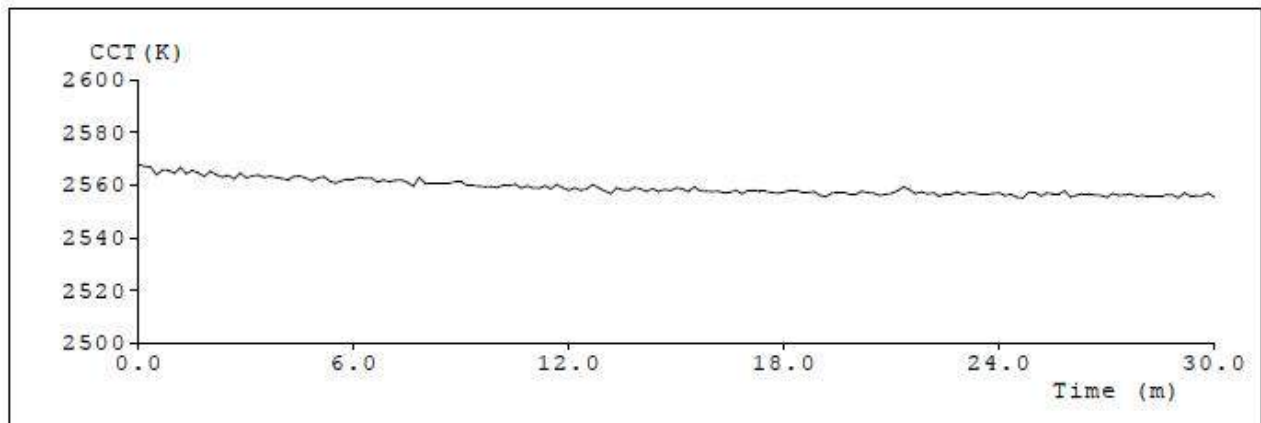
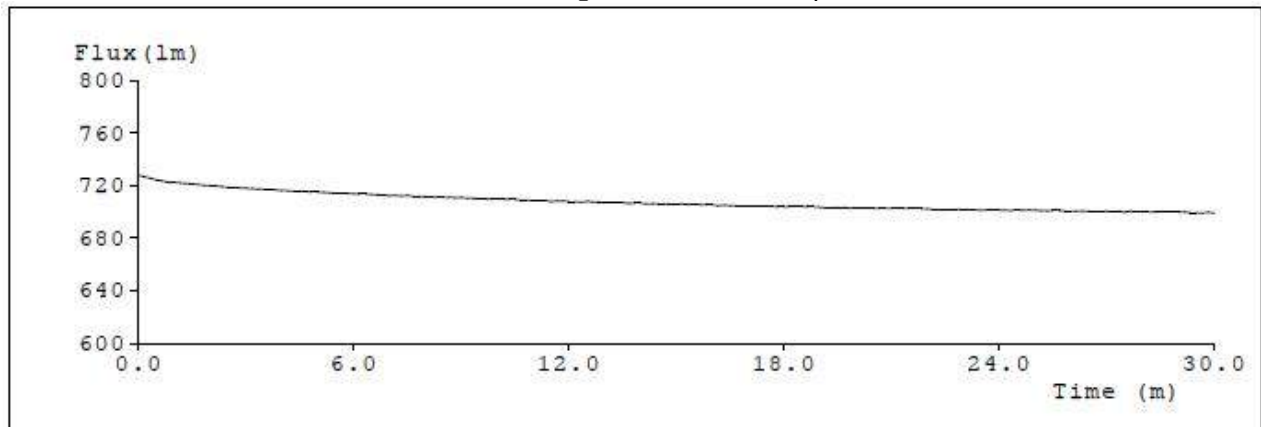
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59	00h09m50s	0.5387	24	12.9288	709.61	0.4676	0.4059	0.2697	0.5267	2559	93.1
60	00h10m00s	0.5387	24	12.9288	709.53	0.4676	0.4059	0.2697	0.5267	2559	93.1
61	00h10m10s	0.5387	24	12.9288	709.47	0.4677	0.4062	0.2696	0.5268	2560	93
62	00h10m20s	0.5388	24	12.9312	709.15	0.4676	0.4059	0.2697	0.5267	2560	93.1
63	00h10m30s	0.5388	24	12.9312	709.26	0.4676	0.4061	0.2696	0.5268	2560	93.1
64	00h10m40s	0.5389	24	12.9336	708.73	0.4677	0.406	0.2697	0.5268	2559	93.1
65	00h10m50s	0.5389	24	12.9336	708.85	0.4676	0.406	0.2697	0.5268	2560	93.1
66	00h11m00s	0.539	24	12.936	708.56	0.4676	0.4059	0.2697	0.5267	2559	93.1
67	00h11m10s	0.539	24	12.936	708.53	0.4677	0.4059	0.2697	0.5267	2559	93
68	00h11m20s	0.539	24	12.936	708.42	0.4676	0.406	0.2697	0.5267	2560	93.1
69	00h11m30s	0.5391	24	12.9384	707.75	0.4676	0.4058	0.2697	0.5267	2559	93.1
70	00h11m40s	0.5391	24	12.9384	707.93	0.4676	0.4059	0.2696	0.5267	2560	93.1
71	00h11m50s	0.5392	24	12.9408	708.33	0.4677	0.406	0.2697	0.5268	2559	93
72	00h12m00s	0.5392	24	12.9408	707.77	0.4677	0.4059	0.2697	0.5268	2558	93.1
73	00h12m10s	0.5392	24	12.9408	707.73	0.4676	0.4059	0.2697	0.5267	2559	93
74	00h12m20s	0.5393	24	12.9432	707.28	0.4677	0.4059	0.2698	0.5267	2558	93.1
75	00h12m30s	0.5393	24	12.9432	707.57	0.4676	0.4059	0.2697	0.5267	2559	93.1
76	00h12m40s	0.5394	24	12.9456	707.52	0.4676	0.406	0.2696	0.5267	2560	93.1
77	00h12m50s	0.5394	24	12.9456	707.08	0.4677	0.406	0.2697	0.5268	2559	93.1
78	00h13m00s	0.5394	24	12.9456	707.13	0.4677	0.4059	0.2698	0.5267	2558	93
79	00h13m10s	0.5395	24	12.948	706.94	0.4678	0.4058	0.2698	0.5267	2557	93
80	00h13m20s	0.5395	24	12.948	707.05	0.4676	0.4059	0.2697	0.5267	2559	93
81	00h13m30s	0.5395	24	12.948	707.02	0.4676	0.4057	0.2698	0.5266	2558	93
82	00h13m40s	0.5396	24	12.9504	706.23	0.4677	0.4059	0.2698	0.5267	2558	93
83	00h13m50s	0.5396	24	12.9504	706.47	0.4676	0.4058	0.2697	0.5267	2559	93
84	00h14m00s	0.5396	24	12.9504	706.36	0.4676	0.4059	0.2697	0.5267	2559	93
85	00h14m10s	0.5397	24	12.9528	706.03	0.4676	0.4056	0.2698	0.5266	2557	93.1
86	00h14m20s	0.5397	24	12.9528	706.25	0.4677	0.4059	0.2697	0.5267	2559	93
87	00h14m30s	0.5397	24	12.9528	705.94	0.4677	0.4059	0.2698	0.5267	2558	93
88	00h14m40s	0.5398	24	12.9552	705.84	0.4676	0.4057	0.2698	0.5266	2558	93
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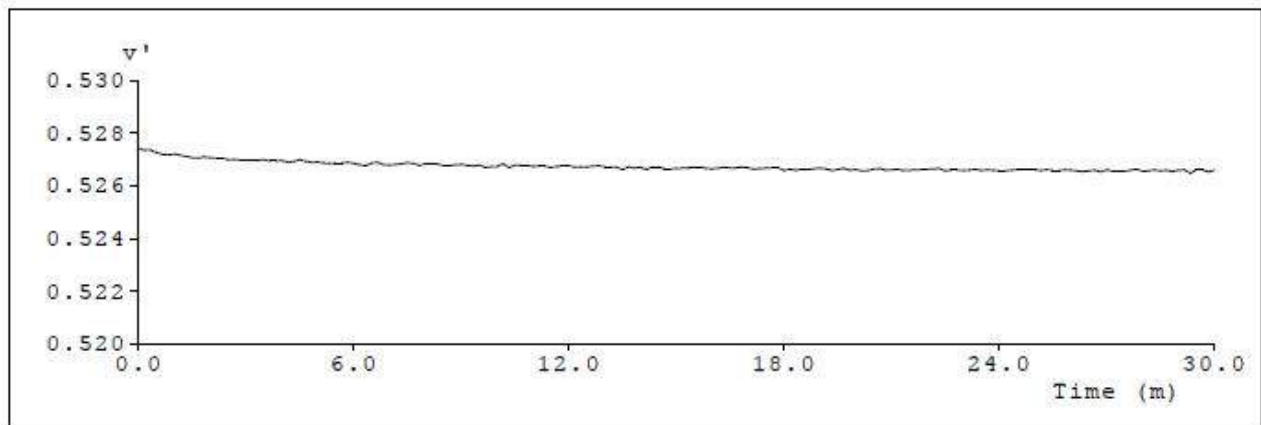
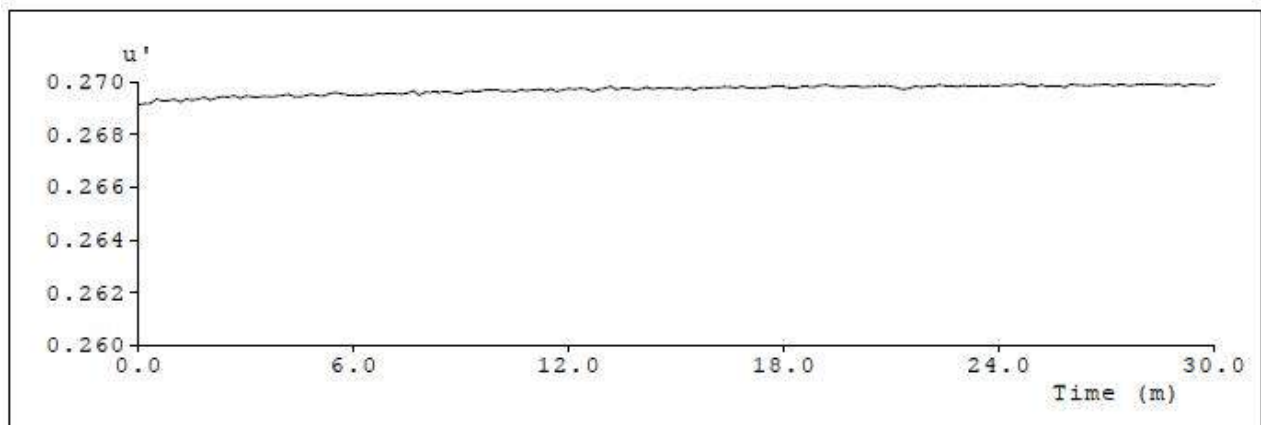
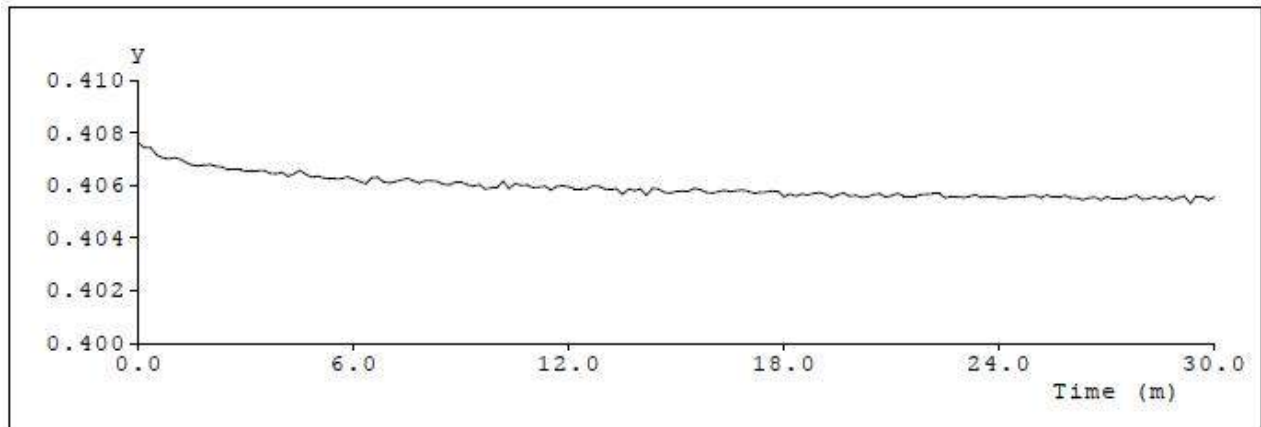
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92	00h15m20s	0.5399	24	12.9576	705.3	0.4677	0.4058	0.2698	0.5267	2558	93
93	00h15m30s	0.5399	24	12.9576	705.66	0.4676	0.4059	0.2697	0.5267	2559	93
94	00h15m40s	0.54	24	12.96	705.31	0.4677	0.4058	0.2698	0.5267	2558	93
95	00h15m50s	0.54	24	12.96	705.08	0.4676	0.4057	0.2698	0.5267	2558	93
96	00h16m00s	0.54	24	12.96	705.04	0.4676	0.4057	0.2698	0.5266	2558	93
97	00h16m10s	0.54	24	12.96	704.71	0.4677	0.4058	0.2698	0.5267	2558	93
98	00h16m20s	0.5401	24	12.9624	704.89	0.4677	0.4058	0.2698	0.5267	2557	93
99	00h16m30s	0.5401	24	12.9624	704.63	0.4677	0.4058	0.2698	0.5267	2557	93
100	00h16m40s	0.5401	24	12.9624	704.45	0.4676	0.4058	0.2698	0.5267	2558	93
101	00h16m50s	0.5401	24	12.9624	704.4	0.4678	0.4058	0.2698	0.5267	2557	93
102	00h17m00s	0.5402	24	12.9648	704.3	0.4676	0.4058	0.2698	0.5267	2558	93
103	00h17m10s	0.5402	24	12.9648	704.02	0.4676	0.4057	0.2698	0.5266	2558	93
104	00h17m20s	0.5402	24	12.9648	704.02	0.4676	0.4057	0.2698	0.5267	2558	93
105	00h17m30s	0.5402	24	12.9648	704.21	0.4677	0.4057	0.2698	0.5267	2558	93
106	00h17m40s	0.5403	24	12.9672	704.19	0.4677	0.4058	0.2698	0.5267	2557	93
107	00h17m50s	0.5403	24	12.9672	703.68	0.4677	0.4058	0.2698	0.5267	2557	93
108	00h18m00s	0.5403	24	12.9672	703.55	0.4676	0.4056	0.2698	0.5266	2557	93
109	00h18m10s	0.5403	24	12.9672	703.81	0.4676	0.4057	0.2698	0.5266	2558	93
110	00h18m20s	0.5404	24	12.9696	703.84	0.4675	0.4056	0.2698	0.5266	2558	93
111	00h18m30s	0.5404	24	12.9696	703.74	0.4676	0.4057	0.2698	0.5266	2557	93
112	00h18m40s	0.5404	24	12.9696	703.65	0.4676	0.4056	0.2698	0.5266	2557	93
113	00h18m50s	0.5404	24	12.9696	703.59	0.4676	0.4057	0.2698	0.5266	2557	93
114	00h19m00s	0.5404	24	12.9696	703.34	0.4678	0.4057	0.2699	0.5267	2556	93
115	00h19m10s	0.5405	24	12.972	702.78	0.4678	0.4057	0.2699	0.5266	2556	93
116	00h19m20s	0.5405	24	12.972	702.89	0.4676	0.4055	0.2698	0.5266	2557	93
117	00h19m30s	0.5405	24	12.972	703.08	0.4676	0.4056	0.2698	0.5266	2557	93
118	00h19m40s	0.5405	24	12.972	703.01	0.4677	0.4057	0.2698	0.5266	2557	93
119	00h19m50s	0.5406	24	12.9744	702.66	0.4676	0.4056	0.2699	0.5266	2556	93
120	00h20m00s	0.5406	24	12.9744	702.72	0.4677	0.4056	0.2699	0.5266	2556	92.9
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123	00h20m30s	0.5406	24	12.9744	702.57	0.4677	0.4056	0.2698	0.5266	2557	92.9
124	00h20m40s	0.5407	24	12.9768	702.41	0.4677	0.4057	0.2699	0.5266	2556	92.9
125	00h20m50s	0.5407	24	12.9768	702.34	0.4676	0.4056	0.2699	0.5266	2556	93
126	00h21m00s	0.5407	24	12.9768	702.56	0.4676	0.4056	0.2698	0.5266	2557	92.9
127	00h21m10s	0.5407	24	12.9768	702.53	0.4676	0.4057	0.2698	0.5266	2558	92.9
128	00h21m20s	0.5407	24	12.9768	702.48	0.4674	0.4056	0.2697	0.5266	2559	93
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131	00h21m50s	0.5408	24	12.9792	702.26	0.4676	0.4056	0.2698	0.5266	2557	93
132	00h22m00s	0.5408	24	12.9792	702.02	0.4677	0.4057	0.2698	0.5266	2557	92.9
133	00h22m10s	0.5408	24	12.9792	701.85	0.4677	0.4057	0.2698	0.5266	2557	93
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135	00h22m30s	0.5409	24	12.9816	701.77	0.4676	0.4055	0.2699	0.5266	2557	92.9
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147	00h24m30s	0.5411	24	12.9864	701.52	0.4677	0.4056	0.2699	0.5266	2555	92.9
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149	00h24m50s	0.5411	24	12.9864	701.17	0.4676	0.4056	0.2698	0.5266	2557	92.9
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151	00h25m10s	0.5411	24	12.9864	700.68	0.4677	0.4055	0.2699	0.5266	2556	92.9
152	00h25m20s	0.5411	24	12.9864	700.57	0.4676	0.4056	0.2698	0.5266	2557	92.9
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154	00h25m40s	0.5412	24	12.9888	700.65	0.4676	0.4055	0.2699	0.5266	2557	93
155	00h25m50s	0.5412	24	12.9888	700.64	0.4676	0.4056	0.2698	0.5266	2558	93

156	00h26m00s	0.5412	24	12.9888	700.53	0.4677	0.4055	0.2699	0.5266	2555	92.9
157	00h26m10s	0.5412	24	12.9888	700.15	0.4676	0.4055	0.2699	0.5266	2556	92.9
158	00h26m20s	0.5412	24	12.9888	700.46	0.4676	0.4054	0.2699	0.5265	2557	92.9
159	00h26m30s	0.5412	24	12.9888	700.34	0.4676	0.4055	0.2699	0.5266	2557	93
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161	00h26m50s	0.5413	24	12.9912	700.05	0.4676	0.4054	0.2699	0.5265	2556	92.9
162	00h27m00s	0.5413	24	12.9912	700.34	0.4677	0.4056	0.2699	0.5266	2555	92.9
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165	00h27m30s	0.5413	24	12.9912	699.65	0.4676	0.4055	0.2699	0.5266	2556	92.9
166	00h27m40s	0.5413	24	12.9912	700.16	0.4676	0.4056	0.2699	0.5266	2557	92.9
167	00h27m50s	0.5413	24	12.9912	699.99	0.4677	0.4056	0.2699	0.5266	2556	92.9
168	00h28m00s	0.5413	24	12.9912	699.73	0.4676	0.4055	0.2699	0.5265	2556	92.9
169	00h28m10s	0.5414	24	12.9936	699.73	0.4677	0.4055	0.2699	0.5266	2555	92.9
170	00h28m20s	0.5414	24	12.9936	699.56	0.4677	0.4056	0.2699	0.5266	2555	92.9
171	00h28m30s	0.5414	24	12.9936	699.57	0.4677	0.4055	0.2699	0.5266	2555	93
172	00h28m40s	0.5414	24	12.9936	699.58	0.4676	0.4056	0.2699	0.5266	2556	92.9
173	00h28m50s	0.5414	24	12.9936	699.54	0.4676	0.4054	0.2699	0.5265	2556	92.9
174	00h29m00s	0.5414	24	12.9936	699.56	0.4677	0.4055	0.2699	0.5266	2555	92.9
175	00h29m10s	0.5414	24	12.9936	699.7	0.4676	0.4056	0.2698	0.5266	2557	92.9
176	00h29m20s	0.5414	24	12.9936	699.29	0.4675	0.4053	0.2699	0.5265	2556	92.9
177	00h29m30s	0.5414	24	12.9936	699.24	0.4677	0.4056	0.2699	0.5266	2556	92.9
178	00h29m40s	0.5415	24	12.996	699.09	0.4677	0.4056	0.2699	0.5266	2556	92.9
179	00h29m50s	0.5415	24	12.996	699.43	0.4675	0.4054	0.2698	0.5265	2557	92.9
180	00h30m00s	0.5415	24	12.996	699.08	0.4677	0.4055	0.2699	0.5266	2555	92.9

Test curves





*7.2 ANSI/IES TM-30-18 Color Rendition Report

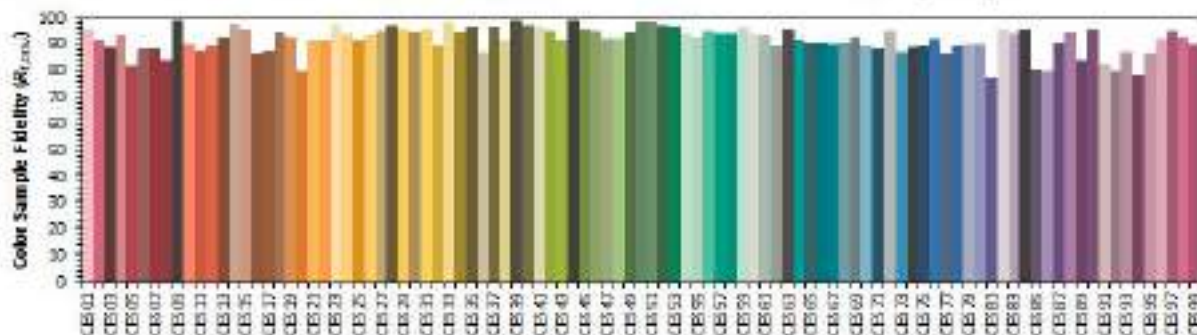
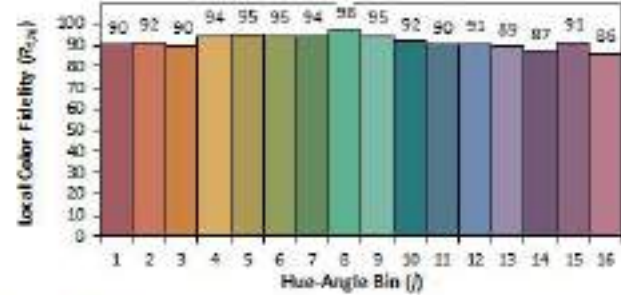
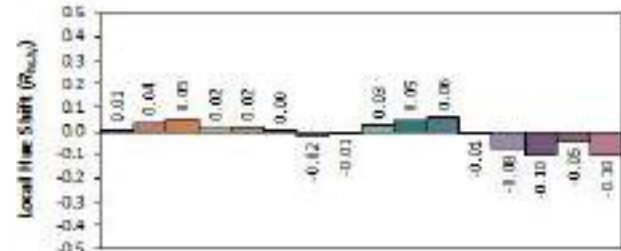
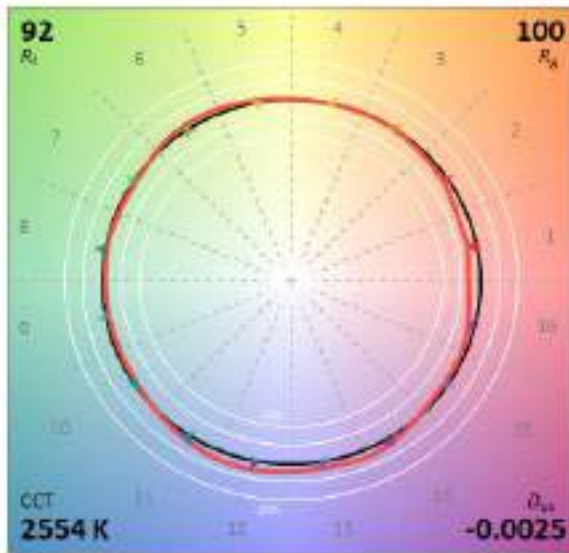
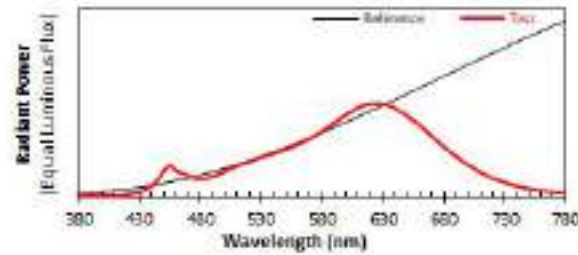
ANSI/IES TM-30-18 Color Rendition Report

Source:

Manufacturer: Guangdong Lunenhub Technology Co., Ltd

Date: 2025/3/14

Model: LVPF40-0500W-L27-SP2-O-24-C (Vivaxy FLEX rail+shield)

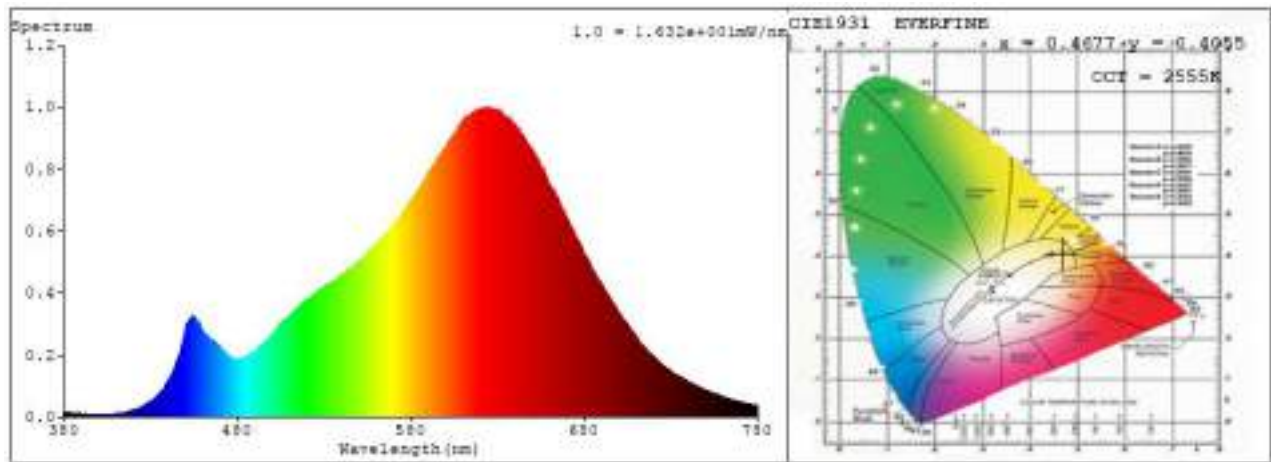


Notes: This is a recommended method for displaying ANSI/IES TM-30-18 information.

 x 0.4677 y 0.4054 u' 0.2700 v' 0.5265CIE 13.3-1995
(CRI) R_A 93 R_g 80

Colors are for visual orientation purposes only. Created with the ANSI/IES TM-30-18 Calculator Version 2.00.

7.3 Relative Spectral Power Distribution



nm	mW	nm	mW	nm	mW	nm	mW	nm	mW
380	0.0089	414	0.009	448	0.2349	482	0.1901	516	0.3528
381	0.0108	415	0.0111	449	0.2554	483	0.1889	517	0.3567
382	0.0016	416	0.0143	450	0.269	484	0.1916	518	0.3651
383	0.007	417	0.0141	451	0.2846	485	0.1934	519	0.3633
384	0.0126	418	0.0171	452	0.2992	486	0.194	520	0.375
385	0.0097	419	0.018	453	0.3137	487	0.1979	521	0.3746
386	0.0073	420	0.0186	454	0.3198	488	0.2056	522	0.3807
387	0.007	421	0.0203	455	0.3199	489	0.2074	523	0.3823
388	0.0051	422	0.0239	456	0.3217	490	0.2103	524	0.3862
389	0.0129	423	0.0258	457	0.31	491	0.2167	525	0.3938
390	0.0075	424	0.0277	458	0.3006	492	0.2195	526	0.3959
391	0.0011	425	0.0301	459	0.2914	493	0.2267	527	0.4037
392	0.0033	426	0.0319	460	0.2782	494	0.2311	528	0.4085
393	0.0058	427	0.0364	461	0.2714	495	0.2367	529	0.4076
394	0.0041	428	0.0435	462	0.2606	496	0.2435	530	0.4182
395	0.0079	429	0.0423	463	0.2642	497	0.2481	531	0.4208
396	0.0067	430	0.0468	464	0.254	498	0.2566	532	0.4247
397	0.0057	431	0.0519	465	0.2484	499	0.2596	533	0.4279
398	0.0057	432	0.0539	466	0.2454	500	0.2657	534	0.4324
399	0.0052	433	0.0614	467	0.2399	501	0.2706	535	0.4404
400	0.0067	434	0.0669	468	0.2382	502	0.2774	536	0.4407
401	0.0068	435	0.0742	469	0.2302	503	0.2838	537	0.4416
402	0.0036	436	0.0791	470	0.2265	504	0.2917	538	0.4472
403	0.0052	437	0.0862	471	0.2194	505	0.2971	539	0.4535
404	0.0069	438	0.0912	472	0.2085	506	0.299	540	0.4597
405	0.0055	439	0.1048	473	0.2084	507	0.3064	541	0.4632
406	0.0059	440	0.1128	474	0.2016	508	0.3141	542	0.4631
407	0.0049	441	0.1216	475	0.1985	509	0.3158	543	0.4695
408	0.0068	442	0.1341	476	0.1899	510	0.3244	544	0.4741
409	0.006	443	0.1496	477	0.186	511	0.3272	545	0.4749
410	0.0086	444	0.1621	478	0.1862	512	0.3351	546	0.4806
411	0.0096	445	0.1783	479	0.1836	513	0.3406	547	0.4923
412	0.0102	446	0.1939	480	0.1861	514	0.3427	548	0.4899
413	0.0103	447	0.2105	481	0.186	515	0.3491	549	0.499

nm	mW	nm	mW	nm	mW	nm	mW	nm	mW
550	0.4974	599	0.8605	648	0.8766	697	0.3637	746	0.0957
551	0.5019	600	0.8673	649	0.8709	698	0.3518	747	0.0928
552	0.5097	601	0.8811	650	0.8626	699	0.3439	748	0.0877
553	0.5155	602	0.892	651	0.8514	700	0.3335	749	0.0872
554	0.5234	603	0.896	652	0.8483	701	0.3294	750	0.085
555	0.5267	604	0.9028	653	0.8309	702	0.319	751	0.0808
556	0.5266	605	0.9115	654	0.8236	703	0.313	752	0.0798
557	0.541	606	0.9184	655	0.8084	704	0.3033	753	0.0778
558	0.5467	607	0.9241	656	0.8049	705	0.2944	754	0.075
559	0.5503	608	0.9372	657	0.7925	706	0.2884	755	0.0731
560	0.5522	609	0.9468	658	0.783	707	0.2802	756	0.072
561	0.5609	610	0.9462	659	0.7711	708	0.2738	757	0.0693
562	0.5659	611	0.9579	660	0.7606	709	0.2643	758	0.067
563	0.5696	612	0.9638	661	0.7483	710	0.2567	759	0.0648
564	0.5778	613	0.9639	662	0.7389	711	0.2542	760	0.0619
565	0.5856	614	0.9686	663	0.7304	712	0.247	761	0.0624
566	0.591	615	0.9763	664	0.7189	713	0.2385	762	0.0598
567	0.5968	616	0.9807	665	0.7009	714	0.231	763	0.0592
568	0.6047	617	0.9838	666	0.6946	715	0.2257	764	0.0563
569	0.6091	618	0.9807	667	0.6792	716	0.2206	765	0.0545
570	0.6136	619	0.98	668	0.6672	717	0.2134	766	0.0538
571	0.6267	620	0.9914	669	0.6557	718	0.2059	767	0.052
572	0.6298	621	0.9844	670	0.6432	719	0.2031	768	0.05
573	0.6439	622	0.9924	671	0.6339	720	0.1968	769	0.0487
574	0.6477	623	0.9937	672	0.619	721	0.1917	770	0.0468
575	0.6531	624	0.9892	673	0.6084	722	0.1903	771	0.0454
576	0.6633	625	0.9813	674	0.5995	723	0.1807	772	0.0448
577	0.6695	626	0.9956	675	0.5858	724	0.1765	773	0.043
578	0.6813	627	0.9913	676	0.5783	725	0.1706	774	0.0421
579	0.6855	628	0.9922	677	0.5655	726	0.1669	775	0.0414
580	0.6927	629	0.9882	678	0.5541	727	0.1634	776	0.0402
581	0.7008	630	0.9856	679	0.5459	728	0.1585	777	0.0385
582	0.7095	631	0.9809	680	0.5288	729	0.1543	778	0.037
583	0.7225	632	0.9855	681	0.5197	730	0.1513	779	0.0373
584	0.7272	633	0.9824	682	0.5122	731	0.1463	780	0.0374
585	0.7397	634	0.9738	683	0.5033	732	0.1411		
586	0.7452	635	0.9712	684	0.4895	733	0.1367		
587	0.7523	636	0.9616	685	0.4794	734	0.1347		
588	0.762	637	0.9568	686	0.4681	735	0.129		
589	0.7785	638	0.9585	687	0.457	736	0.1256		
590	0.7913	639	0.9484	688	0.4451	737	0.1226		
591	0.7914	640	0.9396	689	0.441	738	0.1188		
592	0.8005	641	0.9373	690	0.4298	739	0.1161		
593	0.8149	642	0.9208	691	0.4225	740	0.1124		
594	0.8168	643	0.9181	692	0.4072	741	0.1098		
595	0.8315	644	0.9086	693	0.3974	742	0.1049		
596	0.8359	645	0.9056	694	0.3887	743	0.1035		
597	0.847	646	0.8962	695	0.3814	744	0.0987		
598	0.8563	647	0.8876	696	0.3696	745	0.097		

8. Goniophotometer Test results for LVFK40-0500W-L27-SP2-O-24-G(Vivoxy FLEX rail+shield)

8.1 Test Data

Test Ambient Temperature	25.2°C	Test orientation	Downward
Operate time(Min.)	90	stabilization time(Min.)	30

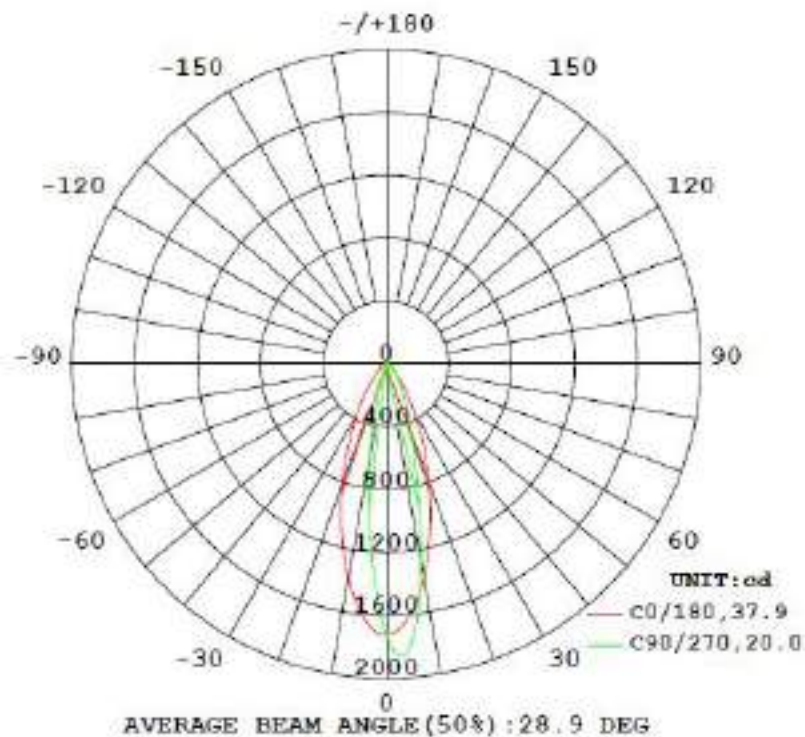
Electrical Measurement

Input Voltage (V)	Frequency (Hz)	Input Current(A)	Power Factor	Power(W)
24	--	0.528	1.0000	12.67

Optical Measurement

Luminous Flux (lm)	Efficacy(lm/W)	Imax (cd)	S/MH(C0/180)	S/MH(C90/270)
696.507	54.96	1865	0.61	0.26

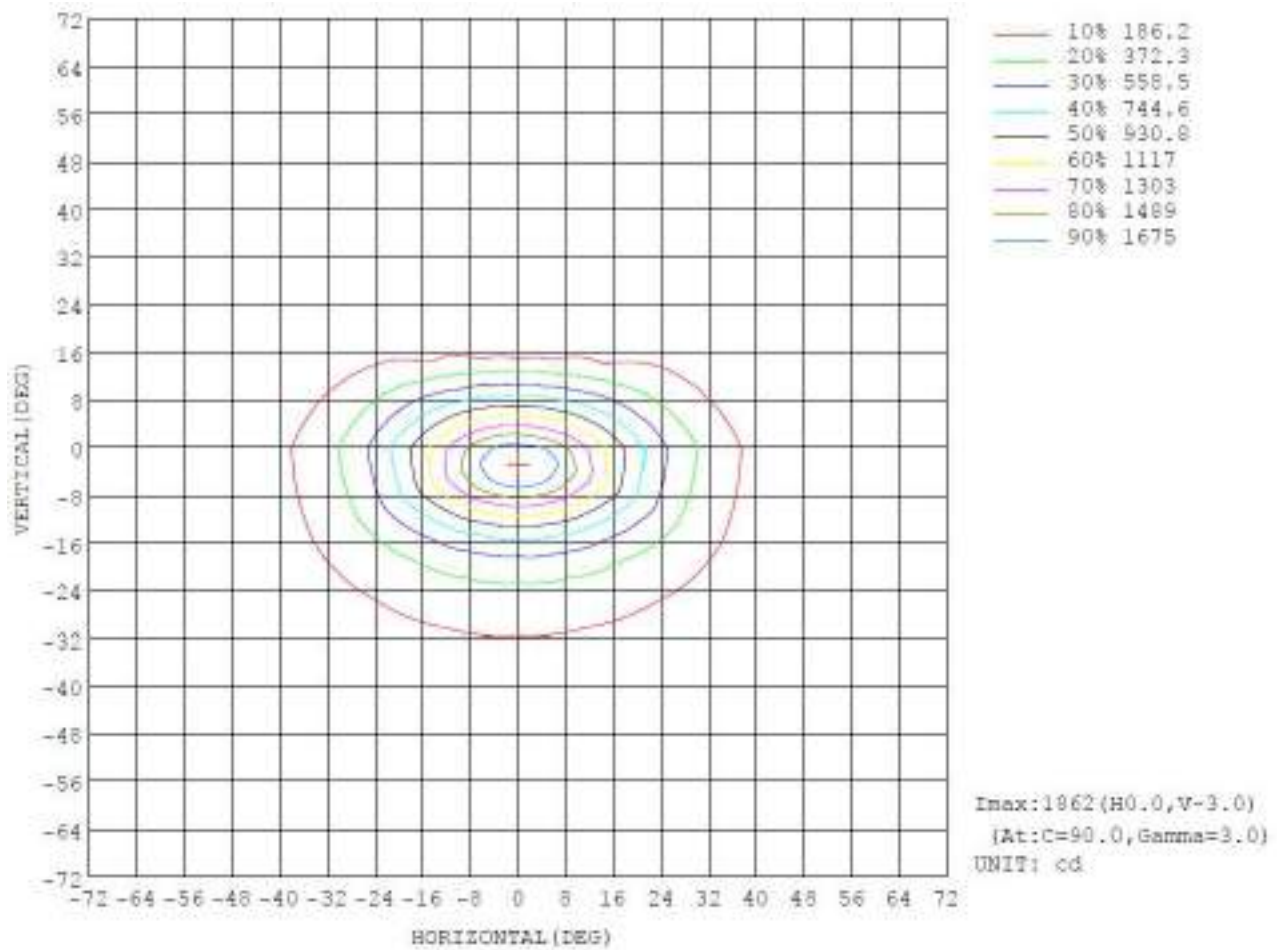
8.2 Luminous Intensity Distribution



8.3 Zonal Flux Diagram

#	C0	C45	C90	C135	C180	C225	C270	C315	γ	* vort	* total	Wlum, lamp
10	1379	1448	1269	1433	1384	848.9	604.3	840.1	0- 10	135.3	255.5	19.4, 19.4
20	799.4	620.5	474.7	615.9	587.5	194.5	55.27	277.9	10- 20	209.3	344.3	49.4, 49.4
30	364.9	257.7	209.8	263.0	275.4	27.21	2.051	24.32	20- 30	189.5	482.2	69.4, 69.4
40	145.7	126.4	112.6	130.4	150.7	1.690	0.3003	1.665	30- 40	77.57	560.4	80.5, 80.5
50	66.02	75.84	75.61	78.68	69.89	0	0	0	40- 50	44.77	625.6	84.9, 84.9
60	40.34	51.15	54.34	51.72	41.40	0	0	0	50- 60	20.43	636.2	81.2, 81.2
70	22.79	32.66	36.43	34.44	23.54	0	0	0	60- 70	12.29	656.4	84.5, 84.5
80	8.309	16.31	22.12	18.60	8.122	0	0	0	70- 80	4.15	672.5	86.6, 86.6
90	0.9958	12.78	18.89	18.08	0.6714	0	0	0	80- 90	7.523	680.1	87.6, 87.6
100	0	10.99	17.98	11.40	0	0	0	0	90-100	8.939	686.3	88.9, 88.9
110	0	8.934	15.25	9.409	0	0	0	0	100-110	4.642	690.8	89.2, 89.2
120	0	3.765	11.92	4.663	0	0	0	0	110-120	2.324	694.1	89.7, 89.7
130	0	0.2965	4.599	0.2976	0	0	0	0	120-130	1.995	695.6	89.9, 89.9
140	0.0817	0.1243	0.0571	0.0946	0.1983	0.2605	0.2206	0.2637	130-140	0.2209	695.9	89.9, 89.9
150	0.2201	0.2781	0.1374	0.1554	0.5447	0.6679	0.7308	0.7609	140-150	0.1801	696.5	89.9, 89.9
160	0.3364	0.3731	0.3244	0.2444	0.4212	0.4654	0.4917	0.4759	150-160	0.2446	696.9	100, 100
170	0.3967	0.3868	0.3412	0.2796	0.7891	0.7399	0.7434	0.7434	160-170	0.1482	696.9	100, 100
180	0.9934	0.4881	0.6160	0.4036	0.8097	0.5941	0.4447	0.3937	170-180	0.4481	696.9	100, 100
DEU	LUMINOUS INTENSITY:cd									UNIT:lm		

8.4 Isocandela Diagram



8.5 Luminous Distribution Intensity Data

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5			
0	1724	1724	1724	1724	1724	1724	1724	1724	1724	1724	1724	1724	1724	1724	1724	1724			
5	1622	1745	1799	1808	1803	1807	1810	1783	1626	1455	1298	1194	1157	1193	1292	1449			
10	1379	1519	1449	1318	1269	1322	1453	1524	1384	1105	850	672	604	665	840	1098			
15	1087	1172	978	814	766	812	974	1168	1031	784	478	266	182	259	468	771			
20	759	825	620	503	475	504	616	815	808	520	195	73.6	55.3	71.4	178	493			
25	551	548	394	325	309	328	394	541	564	318	69.2	23.1	11.3	21.7	64.4	299			
30	378	352	258	218	209	221	261	350	376	183	27.2	2.70	2.05	2.63	24.3	172			
35	234	225	175	154	150	167	188	227	243	91.7	4.84	1.24	1.10	1.22	4.02	79.4			
40	146	146	126	116	114	119	138	149	151	45.4	1.69	0.86	0.80	0.52	1.66	40.3			
45	94.5	97.7	95.3	91.5	90.8	93.0	98.9	102	90.3	24.1	0.96	0.80	0.80	0.50	0.95	20.0			
50	66.0	69.3	78.8	75.2	75.6	76.4	78.7	73.6	68.6	10.3	0.80	0.80	0.80	0.50	0.80	6.68			
55	50.8	54.1	61.9	63.2	64.0	64.2	64.0	56.7	52.3	4.21	0.80	0.80	0.80	0.50	0.80	1.87			
60	40.3	44.5	51.1	53.4	54.3	54.2	52.7	46.2	41.4	3.16	0.80	0.80	0.80	0.50	0.80	0.96			
65	31.2	37.2	41.9	44.8	45.2	45.0	43.0	38.8	32.2	2.06	0.80	0.80	0.80	0.50	0.80	0.43			
70	22.8	30.4	33.7	35.6	36.4	36.0	34.4	31.8	23.5	1.25	0.80	0.80	0.80	0.50	0.80	0.28			
75	15.1	22.9	25.6	27.6	28.5	27.9	26.1	22.8	15.9	0.76	0.80	0.80	0.80	0.50	0.80	0.17			
80	8.21	15.3	18.3	20.9	22.1	21.1	18.6	15.1	9.13	0.33	0.80	0.80	0.80	0.50	0.80	0.00			
85	2.39	5.85	10.6	17.4	19.3	17.7	13.6	9.12	2.76	0.08	0.80	0.80	0.80	0.50	0.80	0.00			
90	0.01	6.34	12.7	16.9	18.8	17.1	13.1	6.79	0.07	0.08	0.80	0.80	0.80	0.50	0.80	0.00			
95	0.00	5.69	12.1	16.1	17.9	16.4	12.5	6.18	0.00	0.08	0.80	0.80	0.80	0.50	0.80	0.00			
100	0.00	5.10	11.0	15.5	17.6	15.8	11.4	5.62	0.00	0.08	0.80	0.80	0.80	0.50	0.80	0.00			
105	0.00	3.79	10.5	14.2	15.8	14.5	10.9	4.37	0.00	0.08	0.80	0.80	0.80	0.50	0.80	0.00			
110	0.00	1.20	8.93	13.4	15.2	13.6	9.41	1.43	0.00	0.08	0.80	0.80	0.80	0.50	0.80	0.00			
115	0.00	0.64	7.13	11.9	13.5	12.2	7.64	0.74	0.00	0.08	0.80	0.80	0.80	0.50	0.80	0.00			
120	0.00	0.44	5.77	9.31	11.3	10.2	4.66	0.55	0.00	0.08	0.80	0.80	0.80	0.50	0.80	0.00			
125	0.00	0.32	1.19	7.12	9.55	7.57	1.35	0.37	0.00	0.08	0.80	0.80	0.80	0.50	0.80	0.00			
130	0.00	0.27	0.21	1.92	4.53	2.26	0.24	0.25	0.00	0.08	0.80	0.80	0.80	0.50	0.80	0.00			
135	0.00	0.27	0.10	0.59	1.43	0.76	0.08	0.19	0.05	0.18	0.08	0.05	0.04	0.05	0.08	0.09			
140	0.08	0.25	0.12	0.07	0.06	0.04	0.08	0.13	0.20	0.26	0.26	0.23	0.22	0.23	0.26	0.26			
145	0.16	0.19	0.21	0.11	0.03	0.04	0.12	0.88	0.37	0.44	0.48	0.48	0.48	0.49	0.49	0.46			
150	0.22	0.24	0.29	0.21	0.14	0.12	0.16	0.11	0.55	0.61	0.67	0.71	0.73	0.73	0.70	0.64			
155	0.29	0.32	0.36	0.33	0.28	0.24	0.23	0.19	0.72	0.75	0.82	0.88	0.92	0.92	0.88	0.80			
160	0.34	0.36	0.37	0.36	0.33	0.28	0.23	0.22	0.83	0.83	0.87	0.93	0.93	1.01	0.97	0.89			
165	0.36	0.38	0.37	0.36	0.34	0.30	0.26	0.23	0.83	0.82	0.81	0.85	0.90	0.94	0.90	0.86			
170	0.40	0.39	0.39	0.37	0.36	0.31	0.27	0.25	0.79	0.79	0.74	0.73	0.75	0.76	0.74	0.71			
175	0.47	0.44	0.41	0.39	0.37	0.33	0.32	0.32	0.70	0.71	0.64	0.60	0.59	0.56	0.56	0.56			
180	0.59	0.52	0.49	0.45	0.42	0.39	0.40	0.41	0.59	0.59	0.54	0.49	0.44	0.43	0.39	0.40			

9. Integrating Sphere Test Results for LVFK40-0500W-L27-SP2-O-24-G(Vivoxy FLEX rail+shield+louver)

9.1 Test Data

Test Ambient Temperature (Integrating sphere internal temperature)	25.1℃	Test orientation	Downward
Operate time(Min.)	30	stabilization time(Min.)	0

Optical and Electrical Measurement Result

Number	Time	Current (A)	Voltage (V)	Power (W)	Flux(lm)	x	y	u'	v'	CCT (K)	Ra
0	00h00m00s	0.5311	24	12.7464	573.5	0.4665	0.4068	0.2685	0.5269	2581	93.5
1	00h00m10s	0.5316	24	12.7584	573.44	0.4665	0.4067	0.2686	0.5269	2581	93.5
2	00h00m20s	0.5318	24	12.7632	572.99	0.4664	0.4067	0.2685	0.5268	2581	93.5
3	00h00m30s	0.5321	24	12.7704	572.72	0.4664	0.4066	0.2685	0.5268	2581	93.5
4	00h00m40s	0.5323	24	12.7752	572.35	0.4664	0.4066	0.2686	0.5268	2581	93.5
5	00h00m50s	0.5325	24	12.78	571.92	0.4664	0.4065	0.2686	0.5268	2580	93.5
6	00h01m00s	0.5327	24	12.7848	571.78	0.4663	0.4064	0.2686	0.5267	2581	93.5
7	00h01m10s	0.5328	24	12.7872	571.44	0.4663	0.4064	0.2686	0.5267	2580	93.5
8	00h01m20s	0.533	24	12.792	570.81	0.4664	0.4064	0.2687	0.5267	2579	93.5
9	00h01m30s	0.5332	24	12.7968	570.99	0.4663	0.4065	0.2686	0.5267	2580	93.4
10	00h01m40s	0.5333	24	12.7992	570.5	0.4664	0.4064	0.2687	0.5267	2578	93.5
11	00h01m50s	0.5335	24	12.804	570.58	0.4663	0.4063	0.2686	0.5267	2579	93.4
12	00h02m00s	0.5336	24	12.8064	570.1	0.4664	0.4063	0.2687	0.5267	2578	93.5
13	00h02m10s	0.5338	24	12.8112	570.02	0.4663	0.4062	0.2687	0.5266	2579	93.4
14	00h02m20s	0.5339	24	12.8136	569.72	0.4663	0.4062	0.2687	0.5266	2579	93.4
15	00h02m30s	0.534	24	12.816	569.54	0.4663	0.4062	0.2687	0.5266	2579	93.4
16	00h02m40s	0.5341	24	12.8184	569.31	0.4663	0.4062	0.2687	0.5266	2579	93.4
17	00h02m50s	0.5342	24	12.8208	569.16	0.4664	0.4063	0.2687	0.5267	2579	93.4
18	00h03m00s	0.5343	24	12.8232	568.8	0.4664	0.4062	0.2687	0.5267	2578	93.4
19	00h03m10s	0.5345	24	12.828	568.65	0.4664	0.4061	0.2688	0.5266	2577	93.3
20	00h03m20s	0.5346	24	12.8304	568.36	0.4663	0.4062	0.2687	0.5266	2579	93.4
21	00h03m30s	0.5347	24	12.8328	568.32	0.4663	0.4061	0.2687	0.5266	2578	93.3
22	00h03m40s	0.5348	24	12.8352	568.08	0.4662	0.4061	0.2687	0.5266	2579	93.4
23	00h03m50s	0.5349	24	12.8376	567.78	0.4663	0.4061	0.2688	0.5266	2578	93.4

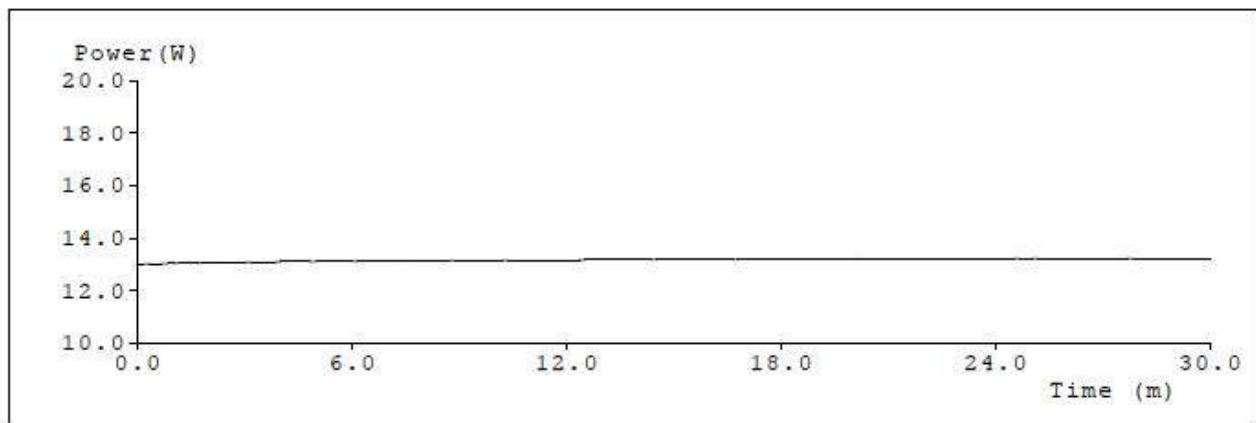
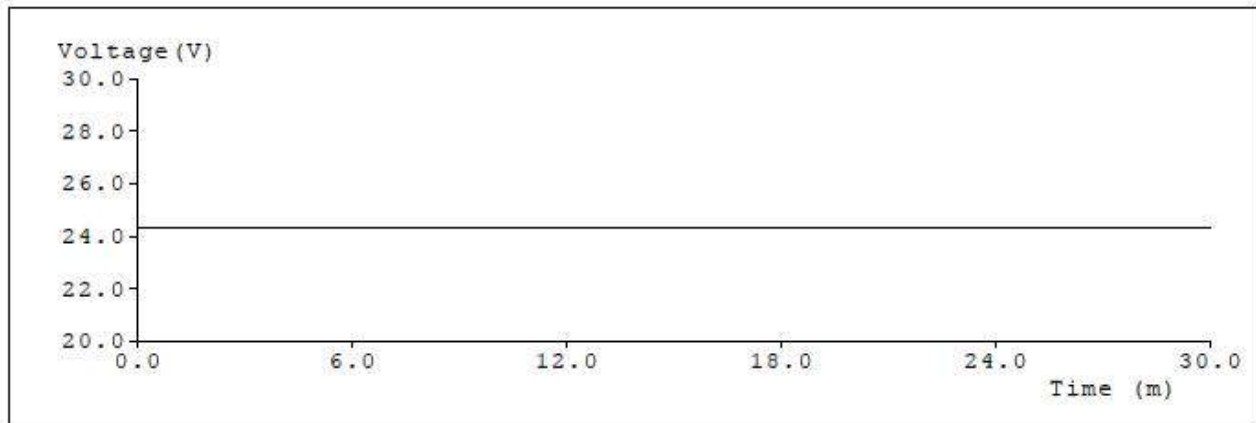
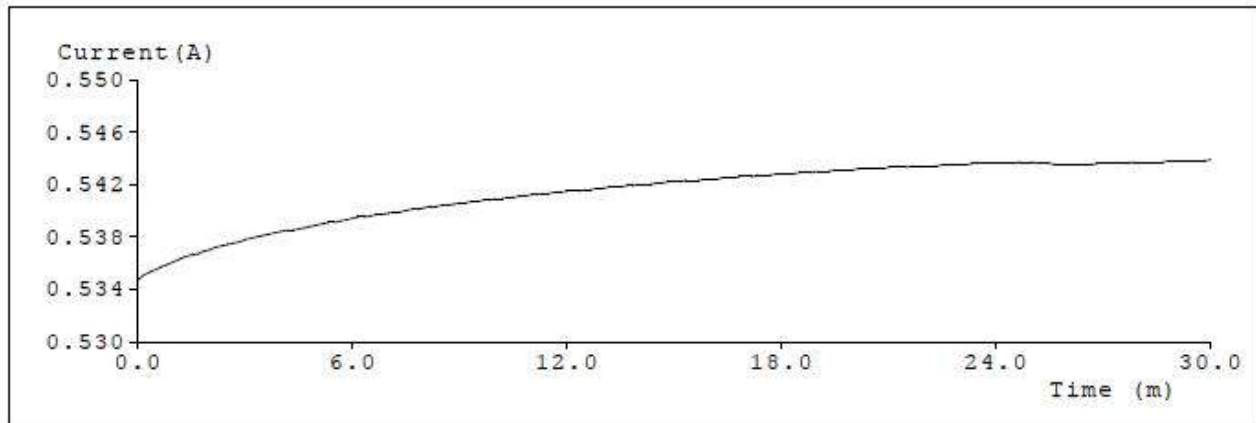
24	00h04m00s	0.5349	24	12.8376	567.42	0.4663	0.406	0.2687	0.5266	2578	93.4
25	00h04m10s	0.535	24	12.84	567.31	0.4663	0.4059	0.2688	0.5265	2576	93.3
26	00h04m20s	0.5351	24	12.8424	566.94	0.4663	0.406	0.2688	0.5266	2577	93.4
27	00h04m30s	0.5352	24	12.8448	567.21	0.4663	0.406	0.2688	0.5266	2577	93.3
28	00h04m40s	0.5353	24	12.8472	566.75	0.4663	0.406	0.2688	0.5265	2577	93.4
29	00h04m50s	0.5354	24	12.8496	566.78	0.4664	0.406	0.2688	0.5266	2576	93.4
30	00h05m00s	0.5355	24	12.852	566.55	0.4663	0.4059	0.2689	0.5265	2576	93.3
31	00h05m10s	0.5355	24	12.852	566.47	0.4663	0.406	0.2688	0.5266	2577	93.3
32	00h05m20s	0.5356	24	12.8544	566.17	0.4664	0.406	0.2688	0.5266	2576	93.3
33	00h05m30s	0.5357	24	12.8568	566.09	0.4663	0.406	0.2688	0.5266	2577	93.3
34	00h05m40s	0.5358	24	12.8592	565.89	0.4665	0.406	0.2689	0.5266	2575	93.3
35	00h05m50s	0.5358	24	12.8592	565.88	0.4663	0.406	0.2688	0.5266	2576	93.3
36	00h06m00s	0.5359	24	12.8616	565.65	0.4663	0.4059	0.2688	0.5265	2576	93.3
37	00h06m10s	0.536	24	12.864	565.65	0.4663	0.4059	0.2688	0.5265	2577	93.3
38	00h06m20s	0.536	24	12.864	565.06	0.4663	0.4058	0.2689	0.5265	2576	93.3
39	00h06m30s	0.5361	24	12.8664	565.01	0.4663	0.4059	0.2689	0.5265	2576	93.3
40	00h06m40s	0.5362	24	12.8688	564.79	0.4664	0.4058	0.2689	0.5265	2575	93.3
41	00h06m50s	0.5362	24	12.8688	564.48	0.4662	0.4056	0.2689	0.5264	2575	93.3
42	00h07m00s	0.5363	24	12.8712	564.73	0.4663	0.4058	0.2689	0.5265	2576	93.3
43	00h07m10s	0.5364	24	12.8736	564.7	0.4663	0.4059	0.2689	0.5265	2576	93.3
44	00h07m20s	0.5364	24	12.8736	564.36	0.4663	0.4058	0.2688	0.5265	2576	93.2
45	00h07m30s	0.5365	24	12.876	564.08	0.4664	0.4058	0.2689	0.5265	2575	93.3
46	00h07m40s	0.5365	24	12.876	564.19	0.4663	0.4058	0.2689	0.5265	2576	93.3
47	00h07m50s	0.5366	24	12.8784	563.96	0.4663	0.4058	0.2689	0.5265	2575	93.2
48	00h08m00s	0.5367	24	12.8808	564.2	0.4664	0.4059	0.2689	0.5265	2575	93.2
49	00h08m10s	0.5367	24	12.8808	563.69	0.4663	0.4057	0.2689	0.5264	2575	93.2
50	00h08m20s	0.5368	24	12.8832	563.82	0.4663	0.4058	0.2688	0.5265	2576	93.2
51	00h08m30s	0.5368	24	12.8832	563.63	0.4663	0.4058	0.2689	0.5265	2576	93.2
52	00h08m40s	0.5369	24	12.8856	563.42	0.4663	0.4057	0.2689	0.5264	2574	93.2
53	00h08m50s	0.5369	24	12.8856	563.19	0.4662	0.4056	0.2689	0.5264	2575	93.2
54	00h09m00s	0.537	24	12.888	563.09	0.4662	0.4057	0.2689	0.5264	2576	93.2
55	00h09m10s	0.5371	24	12.8904	563.1	0.4663	0.4056	0.269	0.5264	2574	93.2
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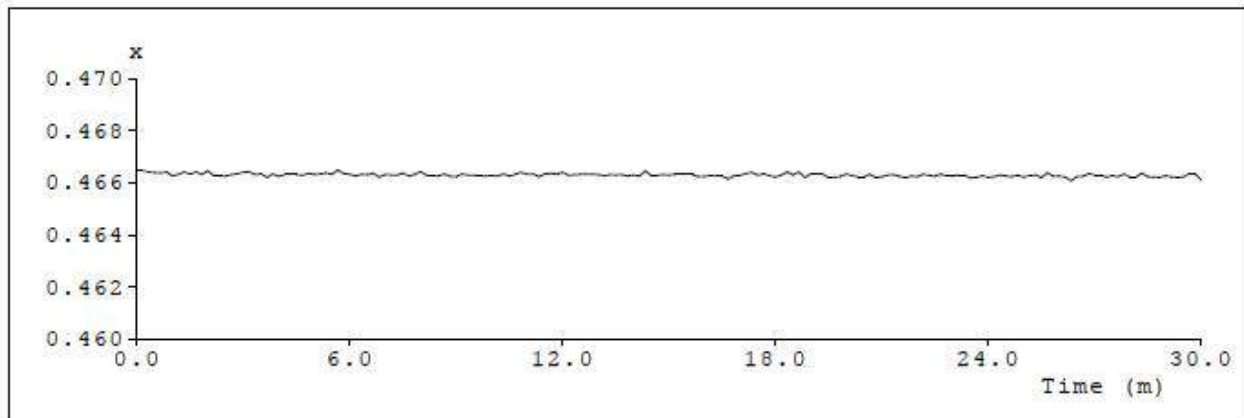
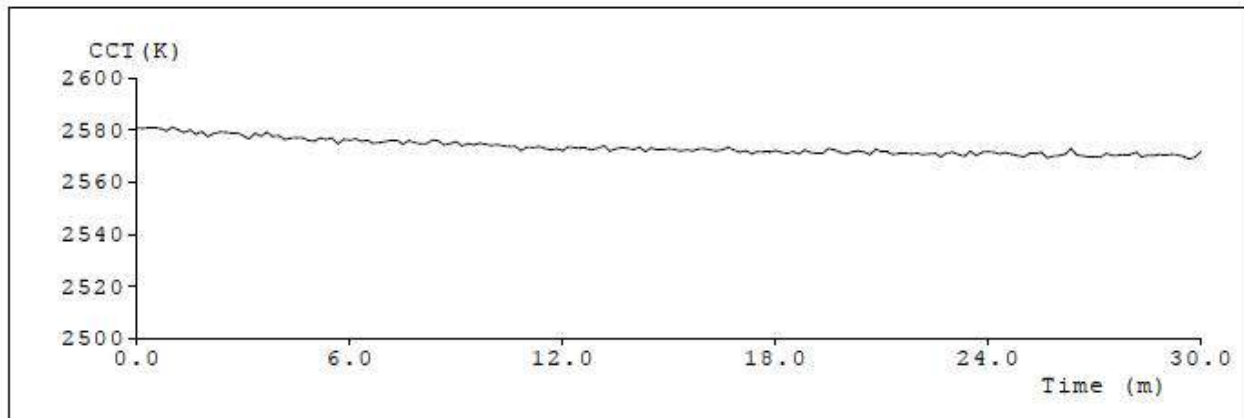
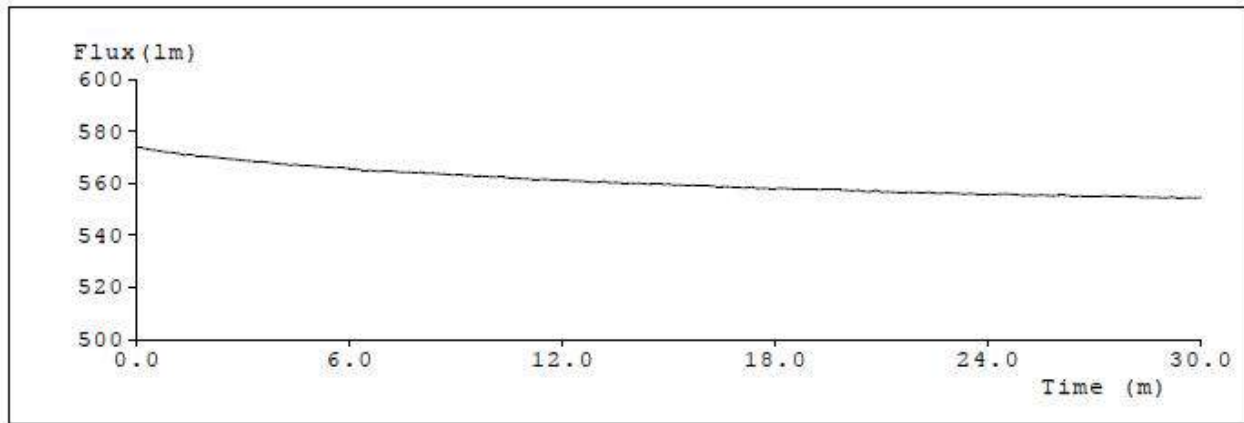
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59	00h09m50s	0.5373	24	12.8952	562.6	0.4663	0.4056	0.2689	0.5264	2575	93.2
60	00h10m00s	0.5373	24	12.8952	562.4	0.4663	0.4055	0.269	0.5264	2574	93.2
61	00h10m10s	0.5373	24	12.8952	562.37	0.4663	0.4056	0.269	0.5264	2574	93.2
62	00h10m20s	0.5374	24	12.8976	562.31	0.4663	0.4057	0.269	0.5264	2574	93.2
63	00h10m30s	0.5374	24	12.8976	562.04	0.4663	0.4055	0.269	0.5264	2574	93.2
64	00h10m40s	0.5375	24	12.9	562.03	0.4663	0.4056	0.269	0.5264	2574	93.2
65	00h10m50s	0.5375	24	12.9	561.76	0.4664	0.4055	0.2691	0.5264	2572	93.2
66	00h11m00s	0.5376	24	12.9024	561.67	0.4663	0.4055	0.269	0.5264	2573	93.2
67	00h11m10s	0.5376	24	12.9024	561.49	0.4663	0.4056	0.269	0.5264	2573	93.2
68	00h11m20s	0.5377	24	12.9048	561.46	0.4662	0.4054	0.269	0.5263	2574	93.1
69	00h11m30s	0.5377	24	12.9048	561.55	0.4663	0.4055	0.269	0.5264	2573	93.2
70	00h11m40s	0.5378	24	12.9072	561.35	0.4664	0.4055	0.2691	0.5264	2572	93.2
71	00h11m50s	0.5378	24	12.9072	561.23	0.4663	0.4055	0.269	0.5264	2573	93.1
72	00h12m00s	0.5378	24	12.9072	561.03	0.4664	0.4055	0.2691	0.5264	2572	93.2
73	00h12m10s	0.5379	24	12.9096	561.01	0.4663	0.4055	0.269	0.5264	2574	93.1
74	00h12m20s	0.5379	24	12.9096	560.83	0.4663	0.4055	0.269	0.5264	2573	93.2
75	00h12m30s	0.538	24	12.912	560.85	0.4663	0.4055	0.269	0.5264	2573	93.2
76	00h12m40s	0.538	24	12.912	560.68	0.4663	0.4055	0.269	0.5264	2573	93.1
77	00h12m50s	0.538	24	12.912	560.31	0.4663	0.4054	0.2691	0.5263	2572	93.2
78	00h13m00s	0.5381	24	12.9144	560.39	0.4663	0.4055	0.269	0.5264	2573	93.1
79	00h13m10s	0.5381	24	12.9144	560.73	0.4663	0.4056	0.269	0.5264	2574	93.2
80	00h13m20s	0.5382	24	12.9168	560.13	0.4663	0.4054	0.2691	0.5263	2572	93.2
81	00h13m30s	0.5382	24	12.9168	560.29	0.4663	0.4054	0.269	0.5263	2573	93.1
82	00h13m40s	0.5382	24	12.9168	560.18	0.4663	0.4055	0.269	0.5264	2573	93.1
83	00h13m50s	0.5383	24	12.9192	560.15	0.4663	0.4054	0.269	0.5263	2573	93.1
84	00h14m00s	0.5383	24	12.9192	559.84	0.4663	0.4054	0.2691	0.5263	2573	93.1
85	00h14m10s	0.5383	24	12.9192	560.05	0.4663	0.4054	0.269	0.5263	2573	93.1
86	00h14m20s	0.5384	24	12.9216	559.75	0.4664	0.4056	0.2691	0.5264	2572	93.2
87	00h14m30s	0.5384	24	12.9216	559.54	0.4663	0.4054	0.269	0.5263	2573	93.2
88	00h14m40s	0.5385	24	12.924	559.48	0.4663	0.4054	0.2691	0.5263	2572	93.1
89	00h14m50s	0.5385	24	12.924	559.54	0.4663	0.4054	0.2691	0.5263	2572	93.1

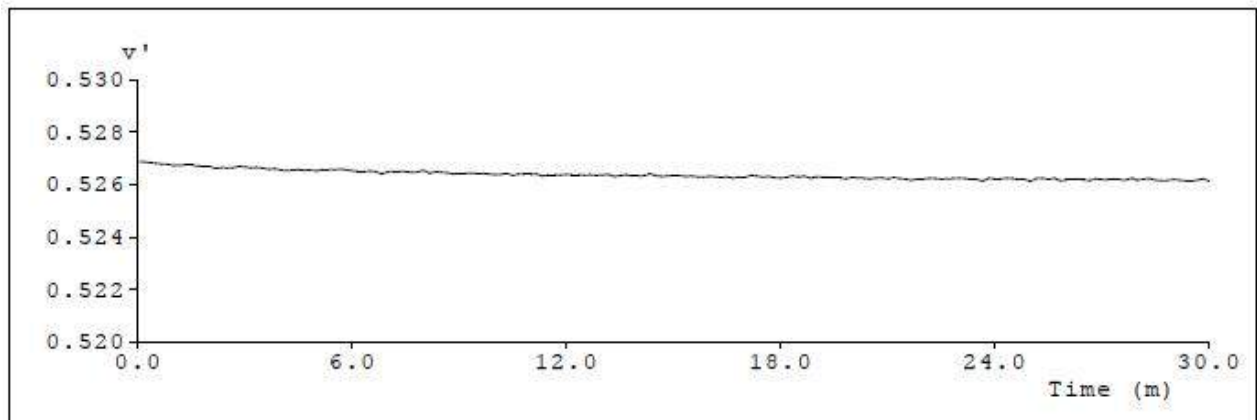
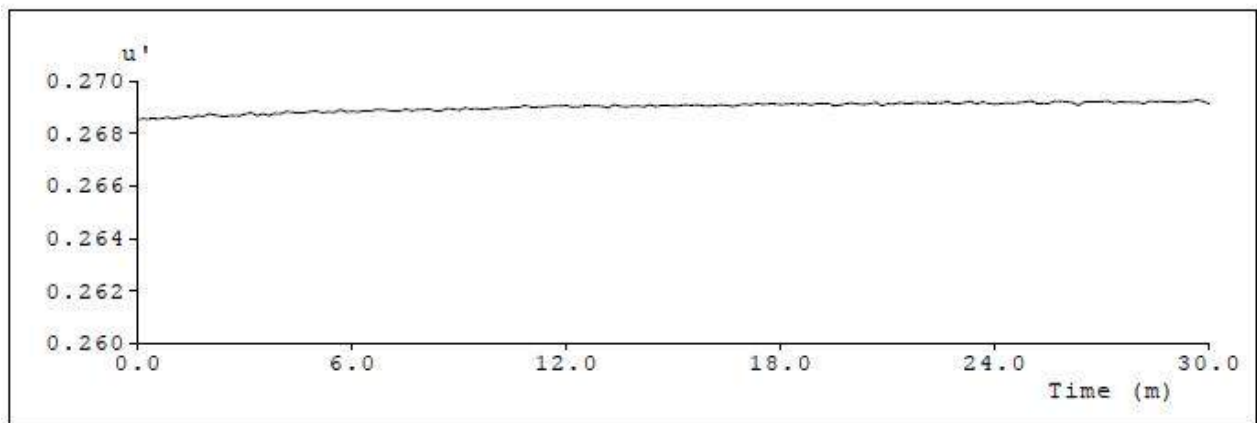
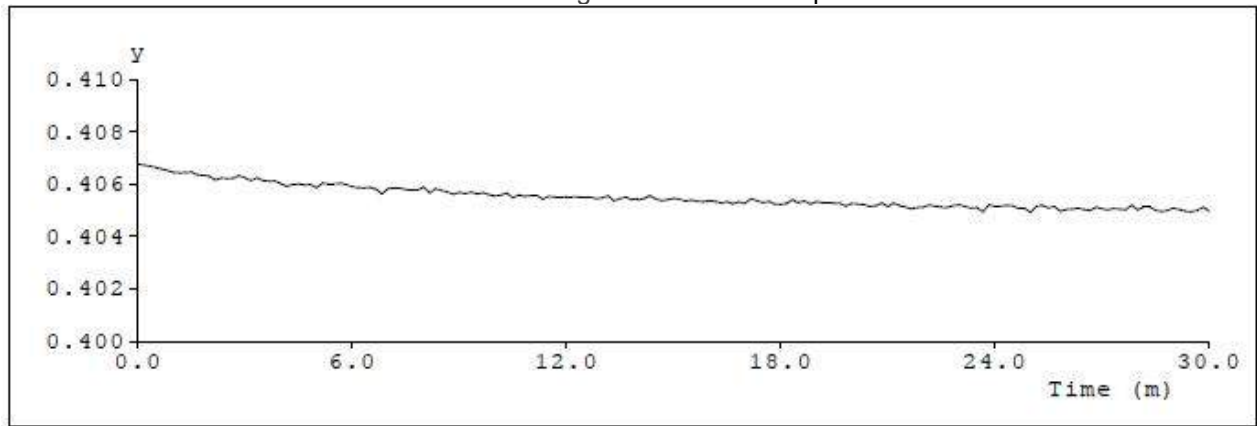
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91	00h15m10s	0.5386	24	12.9264	559.2	0.4663	0.4054	0.2691	0.5263	2573	93.1
92	00h15m20s	0.5386	24	12.9264	559.35	0.4663	0.4053	0.2691	0.5263	2572	93.1
93	00h15m30s	0.5386	24	12.9264	559.16	0.4663	0.4054	0.2691	0.5263	2572	93.1
94	00h15m40s	0.5386	24	12.9264	559.19	0.4663	0.4053	0.2691	0.5263	2572	93.1
95	00h15m50s	0.5387	24	12.9288	559.11	0.4662	0.4053	0.2691	0.5263	2573	93.1
96	00h16m00s	0.5387	24	12.9288	559.09	0.4662	0.4054	0.269	0.5263	2573	93.1
97	00h16m10s	0.5387	24	12.9288	558.95	0.4663	0.4053	0.2691	0.5263	2572	93.1
98	00h16m20s	0.5388	24	12.9312	558.74	0.4663	0.4053	0.2691	0.5263	2572	93.1
99	00h16m30s	0.5388	24	12.9312	558.73	0.4663	0.4053	0.2691	0.5263	2572	93.1
100	00h16m40s	0.5388	24	12.9312	558.6	0.4661	0.4052	0.269	0.5262	2573	93.1
101	00h16m50s	0.5389	24	12.9336	558.49	0.4663	0.4053	0.2691	0.5263	2572	93.1
102	00h17m00s	0.5389	24	12.9336	558.4	0.4663	0.4053	0.2691	0.5263	2572	93.1
103	00h17m10s	0.5389	24	12.9336	558.17	0.4664	0.4054	0.2691	0.5263	2572	93.1
104	00h17m20s	0.5389	24	12.9336	558.57	0.4664	0.4054	0.2692	0.5263	2571	93
105	00h17m30s	0.539	24	12.936	558.01	0.4663	0.4053	0.2691	0.5263	2572	93.1
106	00h17m40s	0.539	24	12.936	558.15	0.4663	0.4053	0.2691	0.5263	2571	93.1
107	00h17m50s	0.539	24	12.936	557.99	0.4663	0.4052	0.2691	0.5263	2572	93.1
108	00h18m00s	0.5391	24	12.9384	557.94	0.4662	0.4052	0.2691	0.5262	2572	93.1
109	00h18m10s	0.5391	24	12.9384	558.03	0.4663	0.4053	0.2691	0.5263	2572	93.1
110	00h18m20s	0.5391	24	12.9384	557.96	0.4664	0.4054	0.2691	0.5263	2571	93.1
111	00h18m30s	0.5391	24	12.9384	557.86	0.4663	0.4053	0.2691	0.5263	2572	93.1
112	00h18m40s	0.5391	24	12.9384	557.89	0.4664	0.4054	0.2692	0.5263	2571	93.1
113	00h18m50s	0.5392	24	12.9408	557.52	0.4662	0.4052	0.2691	0.5262	2572	93.1
114	00h19m00s	0.5392	24	12.9408	557.55	0.4663	0.4053	0.2691	0.5263	2571	93.1
115	00h19m10s	0.5392	24	12.9408	557.6	0.4663	0.4053	0.2691	0.5263	2571	93.1
116	00h19m20s	0.5393	24	12.9432	557.5	0.4663	0.4053	0.2691	0.5263	2571	93.1
117	00h19m30s	0.5393	24	12.9432	557.45	0.4662	0.4053	0.2691	0.5263	2573	93.1
118	00h19m40s	0.5393	24	12.9432	557.42	0.4662	0.4053	0.2691	0.5263	2572	93.1
119	00h19m50s	0.5393	24	12.9432	557.45	0.4662	0.4052	0.2691	0.5262	2571	93.1
120	00h20m00s	0.5393	24	12.9432	557.32	0.4663	0.4053	0.2692	0.5263	2571	93.1
121	00h20m10s	0.5394	24	12.9456	557.1	0.4663	0.4052	0.2691	0.5263	2572	93.1
122	00h20m20s	0.5394	24	12.9456	557.26	0.4662	0.4052	0.2691	0.5262	2572	93.1

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124	00h20m40s	0.5394	24	12.9456	556.73	0.4663	0.4052	0.2692	0.5262	2571	93.1
125	00h20m50s	0.5395	24	12.948	557.3	0.4662	0.4053	0.2691	0.5263	2573	93
126	00h21m00s	0.5395	24	12.948	556.55	0.4662	0.4051	0.2691	0.5262	2571	93.1
127	00h21m10s	0.5395	24	12.948	556.67	0.4663	0.4053	0.2691	0.5263	2572	93.1
128	00h21m20s	0.5395	24	12.948	556.55	0.4663	0.4052	0.2692	0.5262	2571	93
129	00h21m30s	0.5395	24	12.948	556.43	0.4662	0.4051	0.2692	0.5262	2571	93.1
130	00h21m40s	0.5396	24	12.9504	556.42	0.4662	0.405	0.2692	0.5262	2571	93.1
131	00h21m50s	0.5396	24	12.9504	556.55	0.4663	0.4051	0.2692	0.5262	2571	93
132	00h22m00s	0.5396	24	12.9504	556.41	0.4662	0.4051	0.2692	0.5262	2571	93.1
133	00h22m10s	0.5396	24	12.9504	556.34	0.4663	0.4052	0.2692	0.5262	2571	93
134	00h22m20s	0.5396	24	12.9504	556.57	0.4663	0.4052	0.2692	0.5262	2571	93
135	00h22m30s	0.5397	24	12.9528	556.22	0.4662	0.4051	0.2692	0.5262	2571	93.1
136	00h22m40s	0.5397	24	12.9528	556.08	0.4663	0.4051	0.2692	0.5262	2570	93
137	00h22m50s	0.5397	24	12.9528	556.35	0.4663	0.4052	0.2691	0.5262	2571	93
138	00h23m00s	0.5397	24	12.9528	556.18	0.4663	0.4052	0.2691	0.5262	2571	93.1
139	00h23m10s	0.5397	24	12.9528	555.97	0.4663	0.4051	0.2692	0.5262	2571	93
140	00h23m20s	0.5398	24	12.9552	555.83	0.4663	0.4051	0.2692	0.5262	2570	93
141	00h23m30s	0.5398	24	12.9552	556.06	0.4662	0.4051	0.2691	0.5262	2572	93.1
142	00h23m40s	0.5398	24	12.9552	555.77	0.4662	0.4049	0.2692	0.5261	2570	93
143	00h23m50s	0.5398	24	12.9552	555.84	0.4663	0.4052	0.2691	0.5262	2571	93
144	00h24m00s	0.5398	24	12.9552	555.77	0.4662	0.4051	0.2691	0.5262	2572	93
145	00h24m10s	0.5398	24	12.9552	555.62	0.4662	0.4052	0.2691	0.5262	2572	93.1
146	00h24m20s	0.5399	24	12.9576	555.72	0.4663	0.4052	0.2692	0.5262	2571	93
147	00h24m30s	0.5399	24	12.9576	555.85	0.4663	0.4052	0.2691	0.5262	2571	93
148	00h24m40s	0.5399	24	12.9576	555.82	0.4662	0.4051	0.2692	0.5262	2571	93
149	00h24m50s	0.5399	24	12.9576	555.57	0.4663	0.4051	0.2692	0.5262	2570	93
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153	00h25m30s	0.54	24	12.96	555.51	0.4662	0.4051	0.2691	0.5262	2572	93
154	00h25m40s	0.54	24	12.96	555.3	0.4664	0.4051	0.2692	0.5262	2569	93
155	00h25m50s	0.54	24	12.96	555.14	0.4662	0.405	0.2692	0.5261	2570	93

156	00h26m00s	0.54	24	12.96	555.3	0.4663	0.405	0.2692	0.5262	2570	93
157	00h26m10s	0.54	24	12.96	555.29	0.4662	0.405	0.2692	0.5262	2571	93
158	00h26m20s	0.5401	24	12.9624	555.19	0.4661	0.4051	0.2691	0.5262	2573	93
159	00h26m30s	0.5401	24	12.9624	555.08	0.4662	0.405	0.2692	0.5262	2570	93
160	00h26m40s	0.5401	24	12.9624	555	0.4662	0.405	0.2692	0.5262	2570	93
161	00h26m50s	0.5401	24	12.9624	555.05	0.4663	0.4051	0.2692	0.5262	2570	93
162	00h27m00s	0.5401	24	12.9624	554.95	0.4663	0.405	0.2692	0.5262	2570	93
163	00h27m10s	0.5401	24	12.9624	554.96	0.4663	0.405	0.2692	0.5262	2570	93
164	00h27m20s	0.5401	24	12.9624	555.15	0.4662	0.4051	0.2692	0.5262	2571	93
165	00h27m30s	0.5401	24	12.9624	554.87	0.4663	0.405	0.2692	0.5262	2570	93
166	00h27m40s	0.5402	24	12.9648	554.82	0.4662	0.405	0.2692	0.5262	2570	93
167	00h27m50s	0.5402	24	12.9648	555.13	0.4663	0.4052	0.2692	0.5263	2571	93
168	00h28m00s	0.5402	24	12.9648	554.75	0.4662	0.405	0.2692	0.5262	2571	93
169	00h28m10s	0.5402	24	12.9648	554.72	0.4662	0.4051	0.2691	0.5262	2571	93
170	00h28m20s	0.5402	24	12.9648	554.62	0.4664	0.4051	0.2692	0.5262	2570	93
171	00h28m30s	0.5402	24	12.9648	554.48	0.4662	0.405	0.2692	0.5262	2570	93
172	00h28m40s	0.5402	24	12.9648	554.62	0.4662	0.405	0.2692	0.5261	2570	93
173	00h28m50s	0.5403	24	12.9672	554.46	0.4662	0.405	0.2692	0.5262	2571	93
174	00h29m00s	0.5403	24	12.9672	554.42	0.4663	0.4051	0.2692	0.5262	2570	93
175	00h29m10s	0.5403	24	12.9672	554.76	0.4662	0.405	0.2692	0.5262	2571	93
176	00h29m20s	0.5403	24	12.9672	554.33	0.4662	0.405	0.2692	0.5261	2570	93
177	00h29m30s	0.5403	24	12.9672	554.41	0.4662	0.4049	0.2692	0.5261	2570	93
178	00h29m40s	0.5403	24	12.9672	554.53	0.4663	0.405	0.2693	0.5262	2569	93
179	00h29m50s	0.5403	24	12.9672	554.42	0.4664	0.4051	0.2692	0.5262	2570	93
180	00h30m00s	0.5403	24	12.9672	554.47	0.4661	0.405	0.2691	0.5261	2572	93

Test curves





*9.2 ANSI/IES TM-30-18 Color Rendition Report

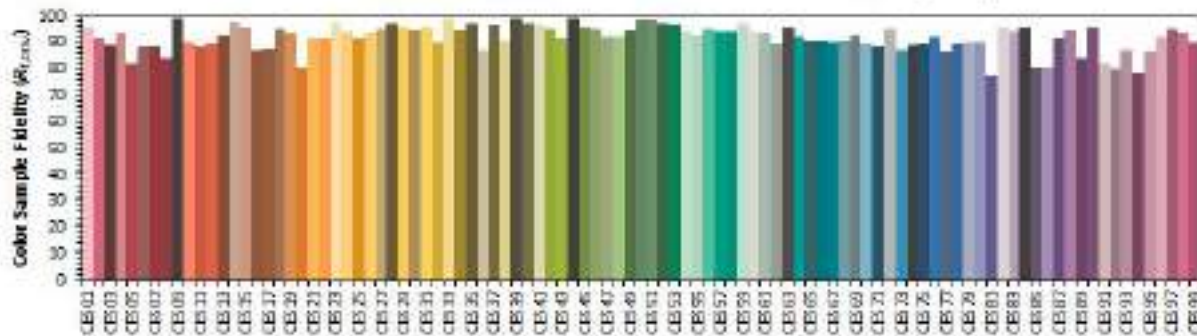
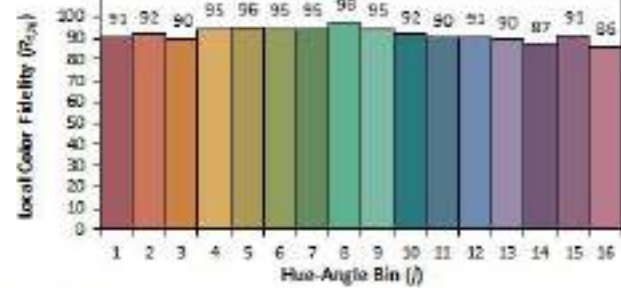
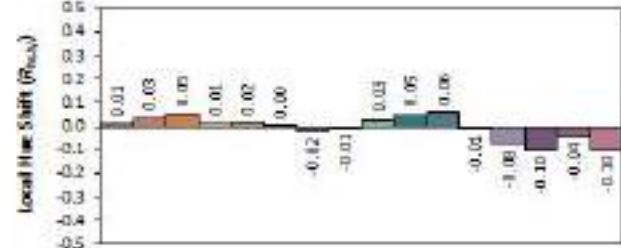
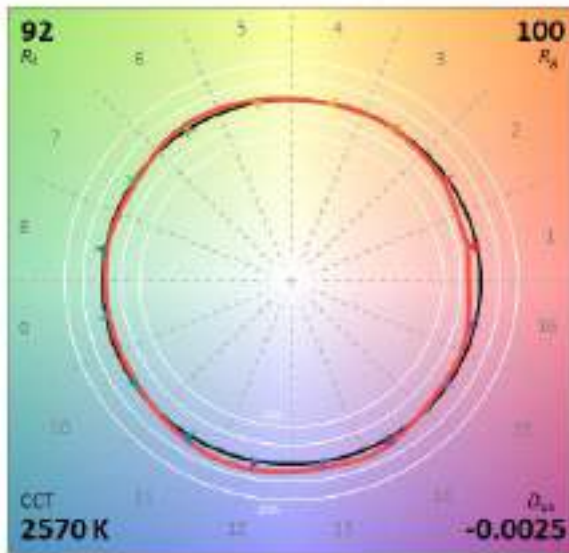
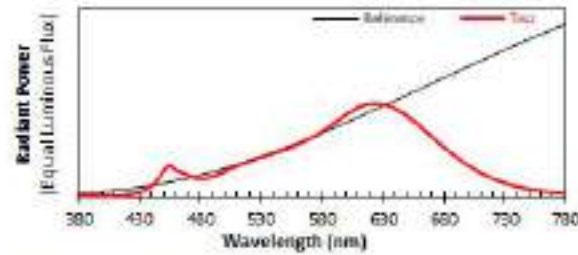
ANSI/IES TM-30-18 Color Rendition Report

Source:

Manufacturer: Guangdong Lunanhub Technology Co., Ltd

Date: 2025/3/14

Model: LVPF40-0500V-L27-SP2-O-24-C (Vivaxy FLEX rail+shield+louver)



Notes: This is a recommended method for displaying ANSI/IES TM-30-18 information.

x 0.4662

y 0.4049

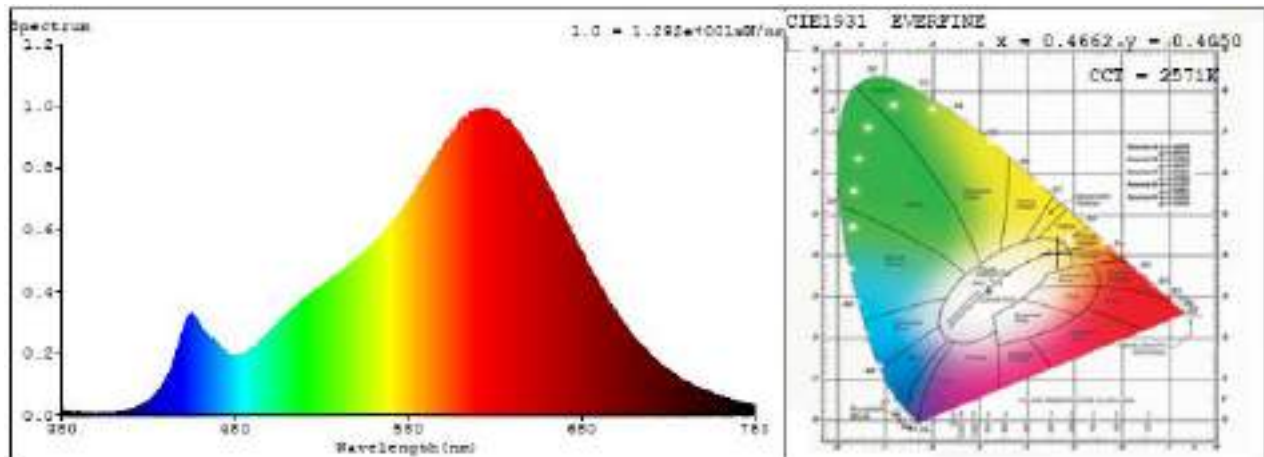
u' 0.2692

v' 0.5261

CIE 13.3-1995
(CRI)R_a 93R_g 80

Colors are for visual orientation purposes only. Created with the ANSI/IES TM-30-18 Calculator Version 2.00.

9.3 Relative Spectral Power Distribution



nm	mW	nm	mW	nm	mW	nm	mW	nm	mW
380	0.0113	414	0.0116	448	0.2384	482	0.1915	516	0.3556
381	0.0046	415	0.0121	449	0.2609	483	0.1927	517	0.362
382	0.0109	416	0.0118	450	0.2753	484	0.1947	518	0.3645
383	0.0082	417	0.0143	451	0.2895	485	0.1957	519	0.368
384	0.0065	418	0.0172	452	0.3033	486	0.2005	520	0.3772
385	0.0054	419	0.0198	453	0.3213	487	0.2018	521	0.374
386	0.0066	420	0.0199	454	0.3253	488	0.2091	522	0.3853
387	0.0063	421	0.0212	455	0.3247	489	0.2082	523	0.3874
388	0.0098	422	0.0233	456	0.3202	490	0.2149	524	0.3898
389	0.0105	423	0.0248	457	0.3119	491	0.2185	525	0.394
390	0.0085	424	0.0281	458	0.3046	492	0.2234	526	0.4042
391	0.0052	425	0.0313	459	0.2945	493	0.2274	527	0.4064
392	0.0039	426	0.0325	460	0.2849	494	0.2369	528	0.4095
393	0.0092	427	0.0368	461	0.2773	495	0.2407	529	0.4135
394	0.0055	428	0.0412	462	0.2654	496	0.2456	530	0.4182
395	0.0043	429	0.0438	463	0.266	497	0.2552	531	0.4231
396	0.0063	430	0.0472	464	0.2618	498	0.2568	532	0.4235
397	0.0036	431	0.0525	465	0.2524	499	0.2588	533	0.4308
398	0.005	432	0.0552	466	0.2476	500	0.2675	534	0.4337
399	0.0057	433	0.0626	467	0.2457	501	0.2765	535	0.443
400	0.0049	434	0.0679	468	0.245	502	0.2805	536	0.4394
401	0.0071	435	0.0743	469	0.2322	503	0.2875	537	0.4456
402	0.0054	436	0.0794	470	0.2295	504	0.2966	538	0.4521
403	0.006	437	0.0893	471	0.2217	505	0.3017	539	0.4517
404	0.0038	438	0.0956	472	0.2157	506	0.3051	540	0.4597
405	0.0038	439	0.1061	473	0.2122	507	0.3123	541	0.4648
406	0.0071	440	0.1132	474	0.2057	508	0.314	542	0.4678
407	0.0058	441	0.1264	475	0.1994	509	0.3198	543	0.4728
408	0.0066	442	0.1365	476	0.1964	510	0.3269	544	0.4784
409	0.0073	443	0.1513	477	0.1939	511	0.3293	545	0.4807
410	0.0086	444	0.1678	478	0.1905	512	0.3393	546	0.4852
411	0.0085	445	0.1836	479	0.1902	513	0.344	547	0.4927
412	0.01	446	0.1973	480	0.1897	514	0.3462	548	0.4931
413	0.0114	447	0.2146	481	0.1908	515	0.3508	549	0.5003

nm	mW	nm	mW	nm	mW	nm	mW	nm	mW
550	0.5003	599	0.8629	648	0.8696	697	0.3559	746	0.0936
551	0.5072	600	0.8723	649	0.8704	698	0.3482	747	0.0899
552	0.5143	601	0.8814	650	0.8525	699	0.343	748	0.0872
553	0.5175	602	0.8903	651	0.8465	700	0.3301	749	0.0855
554	0.5222	603	0.8948	652	0.8429	701	0.3235	750	0.0827
555	0.527	604	0.8995	653	0.8252	702	0.315	751	0.0801
556	0.5291	605	0.9087	654	0.8195	703	0.3076	752	0.0788
557	0.5405	606	0.9194	655	0.8061	704	0.3024	753	0.0765
558	0.5483	607	0.9228	656	0.8004	705	0.2927	754	0.0734
559	0.5486	608	0.9281	657	0.7885	706	0.2817	755	0.072
560	0.5519	609	0.9495	658	0.7789	707	0.2759	756	0.0691
561	0.5598	610	0.9461	659	0.7671	708	0.2713	757	0.0685
562	0.5666	611	0.9566	660	0.7527	709	0.2628	758	0.066
563	0.571	612	0.9598	661	0.7396	710	0.255	759	0.0644
564	0.5776	613	0.9661	662	0.727	711	0.2477	760	0.0633
565	0.5866	614	0.9662	663	0.7259	712	0.2424	761	0.0607
566	0.5913	615	0.9739	664	0.7109	713	0.2362	762	0.0589
567	0.5966	616	0.9804	665	0.6937	714	0.2301	763	0.0569
568	0.6058	617	0.9785	666	0.6874	715	0.2233	764	0.0539
569	0.6122	618	0.9765	667	0.6725	716	0.2156	765	0.0538
570	0.6198	619	0.9819	668	0.6595	717	0.2089	766	0.0516
571	0.6239	620	0.9899	669	0.6509	718	0.2044	767	0.0511
572	0.6319	621	0.9827	670	0.639	719	0.1992	768	0.0494
573	0.6443	622	0.9925	671	0.632	720	0.1955	769	0.0477
574	0.6474	623	0.9833	672	0.6161	721	0.1881	770	0.0467
575	0.6489	624	0.9945	673	0.6071	722	0.1843	771	0.0453
576	0.6577	625	0.9813	674	0.5909	723	0.1779	772	0.044
577	0.6702	626	0.992	675	0.5795	724	0.172	773	0.0414
578	0.6782	627	0.9877	676	0.5702	725	0.1677	774	0.0407
579	0.6848	628	0.9873	677	0.5604	726	0.1643	775	0.0388
580	0.6917	629	0.9858	678	0.5504	727	0.1591	776	0.0378
581	0.6994	630	0.9835	679	0.5381	728	0.1558	777	0.037
582	0.7091	631	0.9768	680	0.5255	729	0.1494	778	0.037
583	0.7157	632	0.9757	681	0.5146	730	0.1471	779	0.0364
584	0.7262	633	0.9808	682	0.5052	731	0.1414	780	0.0365
585	0.7374	634	0.973	683	0.4953	732	0.1387		
586	0.7432	635	0.9683	684	0.4872	733	0.1354		
587	0.751	636	0.9581	685	0.4753	734	0.1315		
588	0.7638	637	0.954	686	0.4635	735	0.1281		
589	0.7737	638	0.9551	687	0.4543	736	0.1235		
590	0.781	639	0.9423	688	0.4454	737	0.1193		
591	0.7923	640	0.9368	689	0.4304	738	0.115		
592	0.7998	641	0.9307	690	0.4245	739	0.1149		
593	0.8125	642	0.9156	691	0.4146	740	0.1111		
594	0.8198	643	0.9151	692	0.4076	741	0.1066		
595	0.8276	644	0.9077	693	0.3951	742	0.1034		
596	0.833	645	0.9031	694	0.3868	743	0.1005		
597	0.8444	646	0.8892	695	0.3738	744	0.0981		
598	0.8518	647	0.887	696	0.3654	745	0.0949		

10. Goniophotometer Test results for LVFK40-0500W-L27-SP2-O-24-G(Vivoxy FLEX rail+shield+louver)

10.1 Test Data

Test Ambient Temperature	25.2°C	Test orientation	Downward
Operate time(Min.)	90	stabilization time(Min.)	30

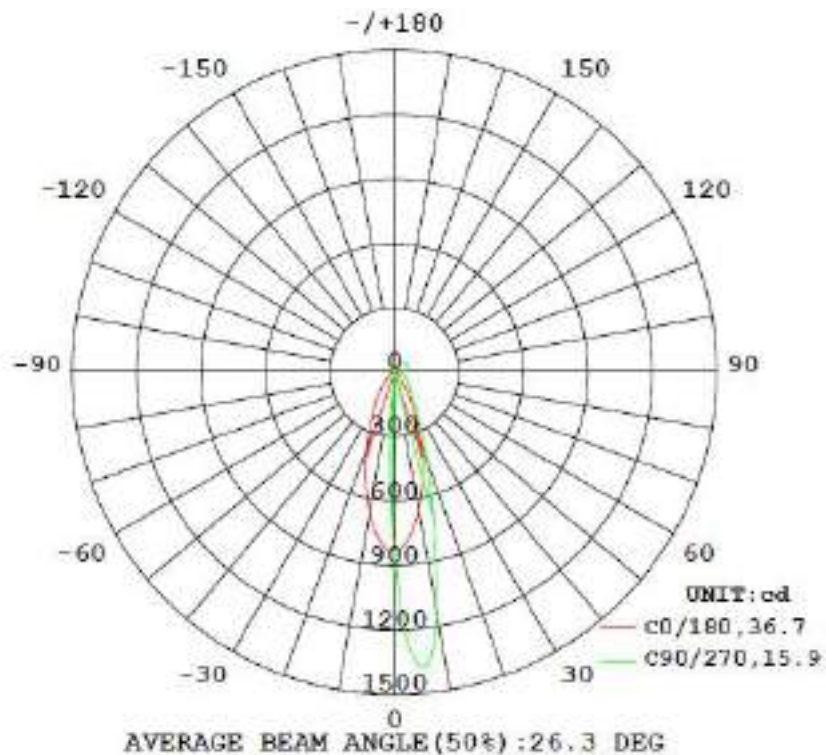
Electrical Measurement

Input Voltage (V)	Frequency (Hz)	Input Current(A)	Power Factor	Power(W)
24	--	0.528	1.0000	12.67

Optical Measurement

Luminous Flux (lm)	Efficacy(lm/W)	Imax (cd)	S/MH(C0/180)	S/MH(C90/270)
542.131	42.78	1379	0.60	0.10

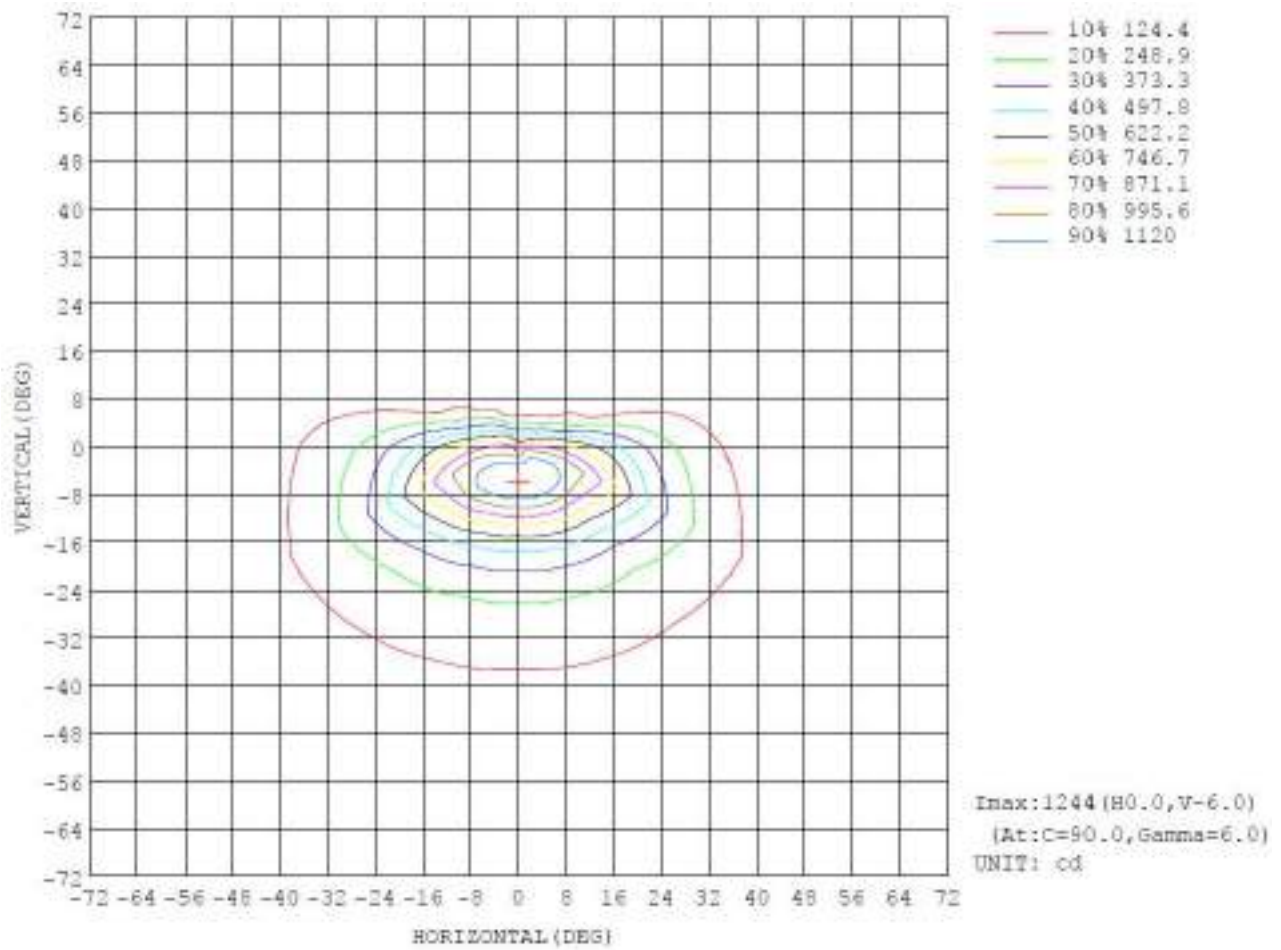
10.2 Luminous Intensity Distribution



10.3 Zonal Flux Diagram

Y	C0	C45	C90	C135	C180	C225	C270	C315	Y	Φ zone	Φ total	Watt, lamp
10	652.9	969.0	1122	1177	669.8	80.39	6.098	42.90	0- 10	67.98	67.98	12.4,12.9
20	366.9	431.5	443.7	545.6	377.4	5.436	1.381	3.473	10- 20	114.2	181.5	33.3,33.5
30	164.8	194.1	207.1	244.8	181.9	0.4021	0	0.0811	20- 30	86.51	268.3	44.4,44.6
40	66.10	103.4	128.8	130.1	87.45	0	0	0	30- 40	56.63	324.5	38.8,39.8
50	21.29	69.08	90.15	84.42	41.85	0	0	0	40- 50	20.62	345.3	46.3,46.5
60	20.77	51.97	70.75	62.02	25.47	0	0	0	50- 60	30.09	395.8	52.3,52.5
70	12.45	37.66	54.67	45.37	26.82	0	0	0	60- 70	24.63	427.4	77.77
80	5.526	24.15	44.26	31.78	1.446	0	0	0	70- 80	19.34	435.8	80.4,80.4
90	0.3190	28.09	30.24	32.18	0.4997	0	0	0	80- 90	14.89	490.6	83.1,83.1
100	0	24.57	27.93	48.38	0	0	0	0	90-100	18.90	467.5	80.2,86.2
110	0	40.49	45.04	47.45	0	0	0	0	100-110	14.54	487.1	88.8,88.8
120	0	42.73	69.52	35.72	0	0	0	0	110-120	20.13	507.2	83.6,83.6
130	0	29.38	67.94	46.76	0	0.0539	0	0.0459	120-130	16.96	524.2	90.7,96.7
140	0	16.50	61.28	25.84	0.0498	0.2899	0.1881	0.2359	130-140	11.89	536.2	98.8,98.8
150	0.0714	0.7231	26.53	1.227	0.2177	0.3971	0.5319	0.4728	140-150	5.208	541.4	95.8,98.8
160	0.1364	0.2625	0.1859	0.0577	0.2608	0.2607	0.5149	0.4607	150-160	0.6482	542.8	100,100
170	0.1753	0.1818	0.1378	0.0979	0.3508	0.2887	0.2951	0.1898	160-170	0.0726	542.1	100,100
180	0.2671	0.1698	0.1251	0.0518	0.2674	0.2135	0.1825	0.0623	170-180	0.0180	542.1	100,100
DOE	LAMPING INTENSITIES									results		

10.4 Isocandela Diagram



10.5 Luminous Distribution Intensity Data

Table--1

UNIT: cd

C (DMG) γ (DMG)	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5			
0	831	831	831	831	831	831	831	831	831	831	831	831	831	831	831	831			
5	777	985	1087	1328	1373	1388	1240	1057	785	542	362	189	148	182	307	497			
10	652	945	945	1135	1122	1142	1177	1052	665	278	60.3	8.01	6.04	7.73	42.5	219			
15	507	788	666	722	695	727	829	894	516	98.6	5.23	3.90	3.31	3.97	5.17	65.3			
20	367	585	432	460	444	464	546	670	377	26.1	3.44	2.40	1.38	2.30	3.47	13.7			
25	252	402	285	306	297	309	359	464	263	6.29	2.45	0.80	0.00	0.00	2.38	5.00			
30	165	268	194	212	207	215	244	310	182	6.03	0.60	0.00	0.00	0.00	0.00	3.95			
35	105	178	139	154	154	158	178	204	129	12.1	0.00	0.00	0.00	0.00	0.00	2.80			
40	64.1	121	104	121	123	125	130	141	87.6	5.82	0.00	0.00	0.00	0.00	0.00	2.21			
45	41.1	85.3	82.5	101	104	104	103	103	59.4	6.10	0.00	0.00	0.00	0.00	0.00	0.56			
50	31.3	64.1	69.1	87.2	90.1	89.2	84.4	77.4	41.8	3.96	0.00	0.00	0.00	0.00	0.00	0.11			
55	25.9	51.6	59.4	76.5	78.6	78.1	72.0	62.1	32.8	3.32	0.00	0.00	0.00	0.00	0.00	0.25			
60	20.8	43.2	51.4	67.4	70.8	68.7	62.0	52.0	25.5	2.99	0.00	0.00	0.00	0.00	0.00	0.51			
65	16.0	36.9	44.8	59.2	62.4	60.2	53.1	44.3	20.7	2.38	0.00	0.00	0.00	0.00	0.00	0.74			
70	12.5	31.0	37.5	51.2	54.5	52.0	45.4	37.3	16.8	1.67	0.00	0.00	0.00	0.00	0.00	0.60			
75	8.77	24.4	31.1	44.2	47.7	44.8	37.8	29.4	12.2	1.10	0.00	0.00	0.00	0.00	0.00	0.41			
80	5.94	18.1	26.2	39.9	44.4	40.4	31.8	21.8	7.65	0.63	0.00	0.00	0.00	0.00	0.00	0.14			
85	2.82	13.4	20.4	31.1	36.7	31.8	20.2	16.2	3.68	0.13	0.00	0.00	0.00	0.00	0.00	0.00			
90	0.32	14.1	28.1	44.4	50.2	45.3	33.2	16.4	0.46	0.03	0.00	0.00	0.00	0.00	0.00	0.00			
95	0.87	17.1	31.4	48.2	54.1	49.1	36.8	19.5	1.64	0.15	0.00	0.00	0.00	0.00	0.00	0.00			
100	0.00	20.9	34.6	51.8	57.5	52.7	40.4	23.8	0.08	0.32	0.00	0.00	0.00	0.00	0.00	0.04			
105	0.00	24.1	37.8	55.8	61.6	56.7	44.4	27.5	0.08	0.37	0.00	0.00	0.00	0.00	0.00	0.08			
110	0.00	26.9	40.5	59.0	65.0	59.9	47.6	29.8	0.08	0.55	0.00	0.00	0.00	0.00	0.00	0.19			
115	0.00	24.7	42.4	61.6	67.6	62.6	50.4	33.2	0.08	0.73	0.00	0.00	0.00	0.00	0.00	0.32			
120	0.00	17.8	42.7	63.7	69.5	64.6	50.7	25.0	0.08	0.90	0.00	0.00	0.00	0.00	0.00	0.47			
125	0.00	8.59	42.5	63.8	70.7	64.8	52.3	15.6	0.08	0.94	0.00	0.00	0.00	0.00	0.00	0.55			
130	0.00	3.42	39.4	62.8	67.9	63.6	48.8	5.30	0.08	0.96	0.05	0.00	0.00	0.00	0.04	0.60			
135	0.00	2.32	29.6	59.9	67.5	60.9	40.0	2.71	0.08	0.93	0.07	0.06	0.03	0.06	0.15	0.68			
140	0.00	1.57	16.5	52.2	61.2	53.7	26.8	1.73	0.04	0.59	0.29	0.20	0.19	0.21	0.28	0.78			
145	0.04	1.03	3.22	35.8	46.8	37.6	9.45	1.01	0.13	0.41	0.22	0.36	0.29	0.40	0.48	0.74			
150	0.07	0.63	0.72	35.8	26.5	17.6	1.33	0.49	0.22	0.32	0.40	0.48	0.53	0.51	0.47	0.62			
155	0.11	0.38	0.48	2.13	4.57	2.26	0.09	0.17	0.31	0.31	0.41	0.51	0.67	0.66	0.51	0.54			
160	0.14	0.25	0.38	0.35	0.19	0.08	0.04	0.07	0.36	0.35	0.36	0.46	0.51	0.50	0.47	0.42			
165	0.16	0.19	0.26	0.27	0.13	0.07	0.04	0.04	0.37	0.35	0.33	0.37	0.38	0.37	0.33	0.28			
170	0.18	0.18	0.18	0.20	0.14	0.09	0.04	0.05	0.35	0.35	0.29	0.29	0.26	0.31	0.19	0.16			
175	0.21	0.18	0.15	0.16	0.14	0.09	0.08	0.06	0.32	0.32	0.25	0.22	0.17	0.10	0.08	0.08			
180	0.27	0.21	0.17	0.16	0.13	0.06	0.09	0.07	0.27	0.27	0.21	0.20	0.16	0.12	0.06	0.05			

11. Integrating Sphere Test Results for LVFK40-0500W-L27-SP2-O-24-G(Vivoxy FLEX rail+shield+louver+return)

11.1 Test Data

Test Ambient Temperature (Integrating sphere internal temperature)	25.1℃	Test orientation	Downward
Operate time(Min.)	30	stabilization time(Min.)	0

Optical and Electrical Measurement Result

Number	Time	Current (A)	Voltage (V)	Power (W)	Flux(lm)	x	y	u'	v'	CCT (K)	Ra
0	00h00m00s	0.526	24	12.624	543.67	0.4677	0.4077	0.2689	0.5274	2572	93.6
1	00h00m10s	0.5267	24	12.6408	543.66	0.4678	0.4077	0.2689	0.5274	2571	93.6
2	00h00m20s	0.5271	24	12.6504	543.23	0.4676	0.4078	0.2688	0.5274	2573	93.6
3	00h00m30s	0.5275	24	12.66	542.73	0.4676	0.4077	0.2689	0.5274	2573	93.6
4	00h00m40s	0.5278	24	12.6672	542.4	0.4676	0.4076	0.2689	0.5274	2572	93.5
5	00h00m50s	0.5281	24	12.6744	541.89	0.4676	0.4076	0.2689	0.5274	2572	93.5
6	00h01m00s	0.5283	24	12.6792	541.76	0.4676	0.4075	0.269	0.5273	2571	93.5
7	00h01m10s	0.5286	24	12.6864	541.11	0.4677	0.4074	0.2691	0.5273	2569	93.5
8	00h01m20s	0.5288	24	12.6912	541.14	0.4676	0.4074	0.269	0.5273	2571	93.5
9	00h01m30s	0.529	24	12.696	540.98	0.4675	0.4075	0.2689	0.5273	2573	93.5
10	00h01m40s	0.5291	24	12.6984	540.26	0.4676	0.4073	0.2691	0.5272	2570	93.4
11	00h01m50s	0.5293	24	12.7032	540.37	0.4676	0.4074	0.269	0.5273	2571	93.5
12	00h02m00s	0.5294	24	12.7056	539.81	0.4676	0.4073	0.269	0.5273	2570	93.4
13	00h02m10s	0.5296	24	12.7104	539.71	0.4676	0.4073	0.269	0.5272	2570	93.5
14	00h02m20s	0.5297	24	12.7128	539.61	0.4675	0.4072	0.269	0.5272	2571	93.5
15	00h02m30s	0.5299	24	12.7176	539.24	0.4675	0.4072	0.269	0.5272	2570	93.4
16	00h02m40s	0.53	24	12.72	539.11	0.4675	0.4072	0.269	0.5272	2571	93.4
17	00h02m50s	0.5301	24	12.7224	538.67	0.4675	0.4072	0.269	0.5272	2570	93.4
18	00h03m00s	0.5303	24	12.7272	538.44	0.4676	0.4071	0.2691	0.5272	2569	93.4
19	00h03m10s	0.5304	24	12.7296	538.38	0.4676	0.4071	0.2691	0.5272	2569	93.4
20	00h03m20s	0.5305	24	12.732	538.28	0.4676	0.4072	0.2691	0.5272	2570	93.4
21	00h03m30s	0.5306	24	12.7344	537.97	0.4675	0.407	0.2691	0.5271	2570	93.4
22	00h03m40s	0.5307	24	12.7368	537.88	0.4675	0.407	0.2691	0.5271	2569	93.4
23	00h03m50s	0.5308	24	12.7392	537.74	0.4675	0.4071	0.2691	0.5272	2570	93.4

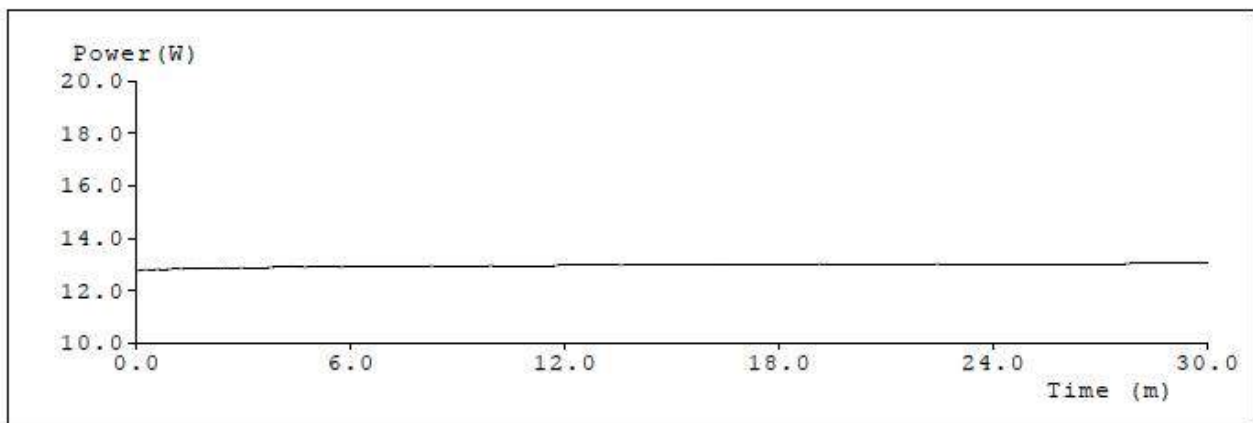
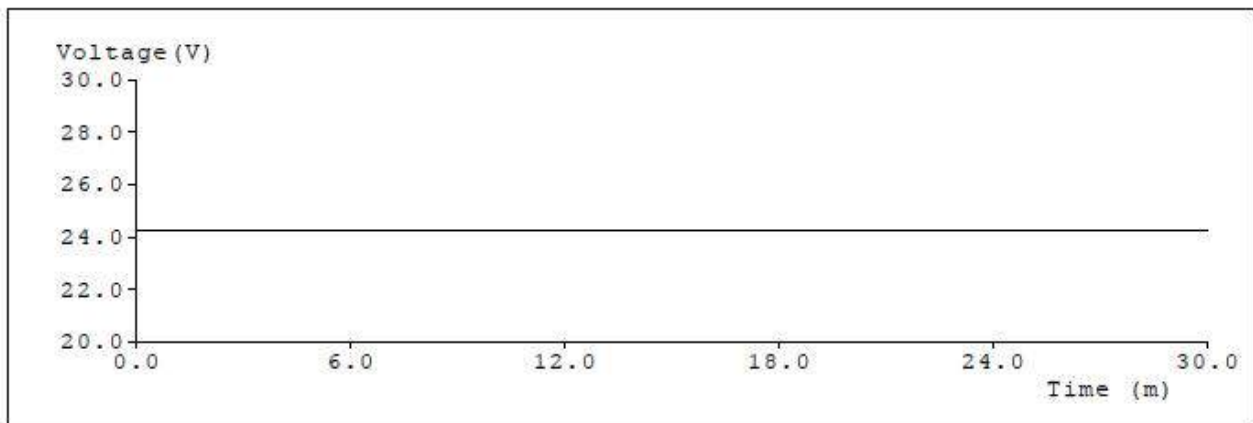
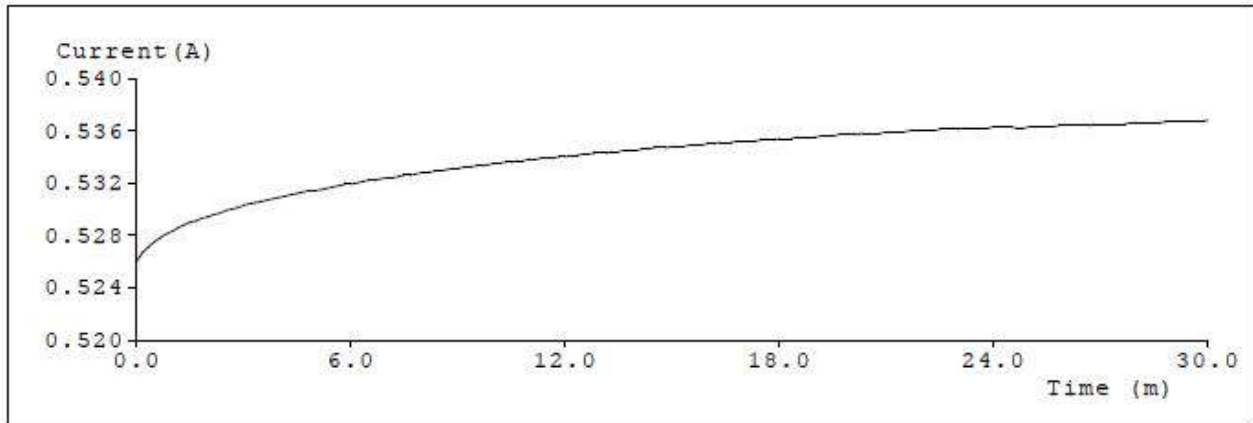
24	00h04m00s	0.5309	24	12.7416	537.65	0.4675	0.407	0.2691	0.5271	2569	93.4
25	00h04m10s	0.531	24	12.744	537.2	0.4675	0.4069	0.2691	0.5271	2569	93.3
26	00h04m20s	0.5311	24	12.7464	537.16	0.4676	0.407	0.2692	0.5272	2568	93.3
27	00h04m30s	0.5312	24	12.7488	536.97	0.4675	0.407	0.2691	0.5271	2569	93.3
28	00h04m40s	0.5313	24	12.7512	536.83	0.4675	0.407	0.2691	0.5271	2568	93.3
29	00h04m50s	0.5314	24	12.7536	536.79	0.4675	0.4069	0.2692	0.5271	2568	93.3
30	00h05m00s	0.5314	24	12.7536	536.43	0.4674	0.4069	0.2691	0.5271	2569	93.3
31	00h05m10s	0.5315	24	12.756	536.24	0.4674	0.4068	0.2691	0.5271	2569	93.4
32	00h05m20s	0.5316	24	12.7584	535.95	0.4675	0.4068	0.2692	0.527	2568	93.3
33	00h05m30s	0.5317	24	12.7608	535.82	0.4675	0.4068	0.2692	0.5271	2568	93.3
34	00h05m40s	0.5318	24	12.7632	535.71	0.4676	0.4069	0.2692	0.5271	2567	93.3
35	00h05m50s	0.5319	24	12.7656	535.72	0.4675	0.4067	0.2692	0.527	2567	93.3
36	00h06m00s	0.5319	24	12.7656	535.65	0.4675	0.4068	0.2692	0.527	2568	93.3
37	00h06m10s	0.532	24	12.768	535.31	0.4675	0.4069	0.2692	0.5271	2568	93.3
38	00h06m20s	0.5321	24	12.7704	535.25	0.4675	0.4068	0.2692	0.5271	2567	93.3
39	00h06m30s	0.5322	24	12.7728	535.04	0.4674	0.4066	0.2692	0.527	2567	93.3
40	00h06m40s	0.5322	24	12.7728	534.82	0.4674	0.4066	0.2692	0.5269	2568	93.3
41	00h06m50s	0.5323	24	12.7752	534.93	0.4674	0.4066	0.2692	0.527	2567	93.3
42	00h07m00s	0.5324	24	12.7776	534.62	0.4675	0.4067	0.2692	0.527	2567	93.3
43	00h07m10s	0.5324	24	12.7776	534.62	0.4675	0.4068	0.2692	0.527	2567	93.3
44	00h07m20s	0.5325	24	12.78	534.4	0.4675	0.4068	0.2692	0.527	2567	93.3
45	00h07m30s	0.5326	24	12.7824	534.27	0.4675	0.4066	0.2693	0.527	2567	93.2
46	00h07m40s	0.5326	24	12.7824	534.19	0.4675	0.4067	0.2692	0.527	2567	93.3
47	00h07m50s	0.5327	24	12.7848	533.94	0.4675	0.4067	0.2693	0.527	2567	93.3
48	00h08m00s	0.5328	24	12.7872	533.65	0.4675	0.4065	0.2693	0.5269	2566	93.3
49	00h08m10s	0.5328	24	12.7872	533.67	0.4675	0.4066	0.2693	0.527	2565	93.2
50	00h08m20s	0.5329	24	12.7896	533.84	0.4675	0.4066	0.2693	0.527	2566	93.2
51	00h08m30s	0.5329	24	12.7896	533.47	0.4675	0.4066	0.2693	0.527	2566	93.2
52	00h08m40s	0.533	24	12.792	533.46	0.4674	0.4066	0.2693	0.5269	2567	93.2
53	00h08m50s	0.5331	24	12.7944	533.09	0.4675	0.4066	0.2693	0.527	2566	93.3
54	00h09m00s	0.5331	24	12.7944	533.2	0.4676	0.4067	0.2693	0.527	2566	93.2
55	00h09m10s	0.5332	24	12.7968	532.77	0.4675	0.4065	0.2693	0.5269	2565	93.3
56	00h09m20s	0.5332	24	12.7968	532.86	0.4676	0.4067	0.2693	0.527	2565	93.2

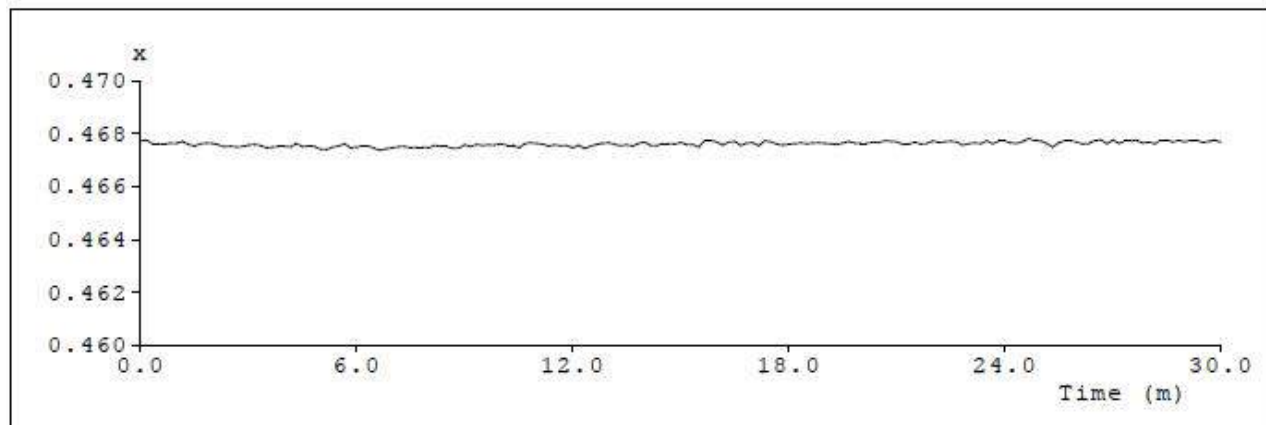
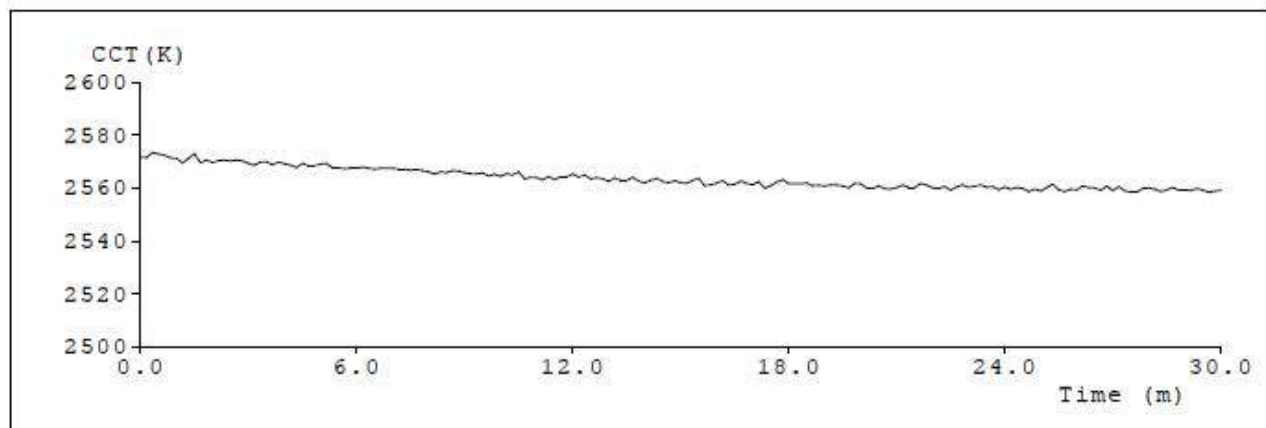
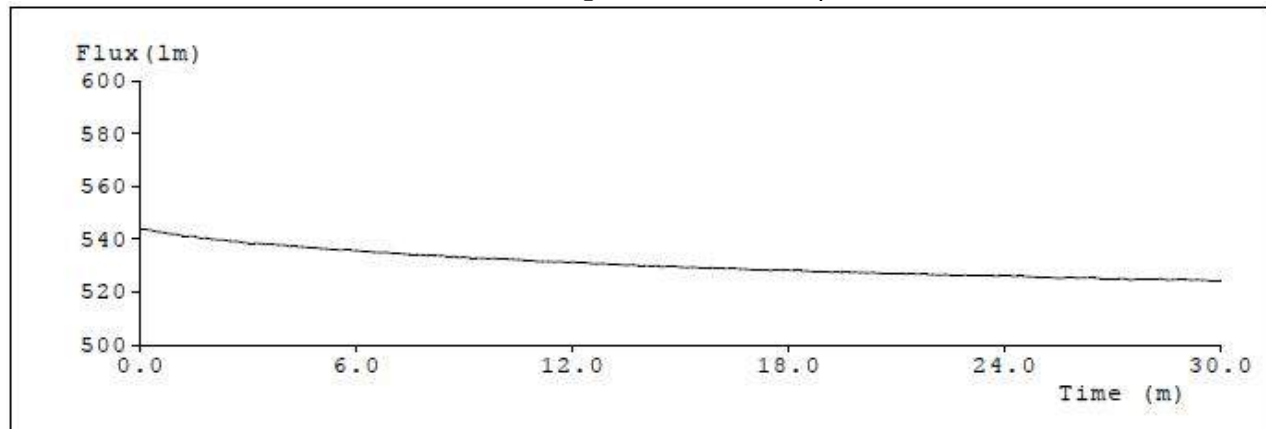
57	00h09m30s	0.5333	24	12.7992	532.65	0.4676	0.4066	0.2693	0.527	2566	93.2
58	00h09m40s	0.5333	24	12.7992	532.56	0.4676	0.4065	0.2694	0.527	2565	93.2
59	00h09m50s	0.5334	24	12.8016	532.67	0.4676	0.4066	0.2693	0.527	2565	93.2
60	00h10m00s	0.5335	24	12.804	532.36	0.4676	0.4066	0.2694	0.527	2564	93.2
61	00h10m10s	0.5335	24	12.804	532.38	0.4676	0.4066	0.2693	0.527	2565	93.2
62	00h10m20s	0.5336	24	12.8064	532.3	0.4676	0.4066	0.2693	0.527	2565	93.2
63	00h10m30s	0.5336	24	12.8064	532.17	0.4675	0.4065	0.2693	0.5269	2566	93.2
64	00h10m40s	0.5337	24	12.8088	531.85	0.4676	0.4064	0.2694	0.5269	2563	93.2
65	00h10m50s	0.5337	24	12.8088	531.96	0.4677	0.4066	0.2694	0.527	2564	93.2
66	00h11m00s	0.5338	24	12.8112	531.56	0.4676	0.4065	0.2694	0.527	2564	93.2
67	00h11m10s	0.5338	24	12.8112	531.38	0.4676	0.4064	0.2695	0.5269	2563	93.2
68	00h11m20s	0.5339	24	12.8136	531.53	0.4675	0.4064	0.2694	0.5269	2564	93.2
69	00h11m30s	0.5339	24	12.8136	531.22	0.4676	0.4064	0.2695	0.5269	2563	93.2
70	00h11m40s	0.5339	24	12.8136	531.48	0.4675	0.4064	0.2694	0.5269	2564	93.2
71	00h11m50s	0.534	24	12.816	531.12	0.4676	0.4065	0.2694	0.5269	2564	93.2
72	00h12m00s	0.534	24	12.816	531.3	0.4675	0.4064	0.2693	0.5269	2565	93.2
73	00h12m10s	0.5341	24	12.8184	531.07	0.4676	0.4065	0.2694	0.5269	2564	93.2
74	00h12m20s	0.5341	24	12.8184	531.15	0.4674	0.4063	0.2694	0.5269	2565	93.2
75	00h12m30s	0.5342	24	12.8208	530.69	0.4675	0.4063	0.2695	0.5269	2563	93.1
76	00h12m40s	0.5342	24	12.8208	530.64	0.4676	0.4065	0.2694	0.5269	2564	93.2
77	00h12m50s	0.5343	24	12.8232	530.79	0.4676	0.4065	0.2694	0.5269	2564	93.1
78	00h13m00s	0.5343	24	12.8232	530.45	0.4677	0.4064	0.2695	0.5269	2563	93.2
79	00h13m10s	0.5343	24	12.8232	530.43	0.4676	0.4065	0.2694	0.5269	2564	93.2
80	00h13m20s	0.5344	24	12.8256	530.21	0.4675	0.4063	0.2695	0.5269	2563	93.1
81	00h13m30s	0.5344	24	12.8256	530.05	0.4676	0.4063	0.2695	0.5269	2563	93.1
82	00h13m40s	0.5345	24	12.828	530.17	0.4675	0.4064	0.2694	0.5269	2564	93.1
83	00h13m50s	0.5345	24	12.828	530	0.4676	0.4064	0.2695	0.5269	2563	93.1
84	00h14m00s	0.5345	24	12.828	529.99	0.4677	0.4063	0.2695	0.5269	2562	93.1
85	00h14m10s	0.5346	24	12.8304	529.66	0.4676	0.4063	0.2695	0.5269	2563	93.2
86	00h14m20s	0.5346	24	12.8304	529.9	0.4675	0.4063	0.2694	0.5269	2564	93.2
87	00h14m30s	0.5347	24	12.8328	529.52	0.4676	0.4064	0.2695	0.5269	2563	93.1
88	00h14m40s	0.5347	24	12.8328	529.71	0.4676	0.4063	0.2695	0.5269	2562	93.1
89	00h14m50s	0.5347	24	12.8328	529.74	0.4676	0.4063	0.2695	0.5269	2563	93.1

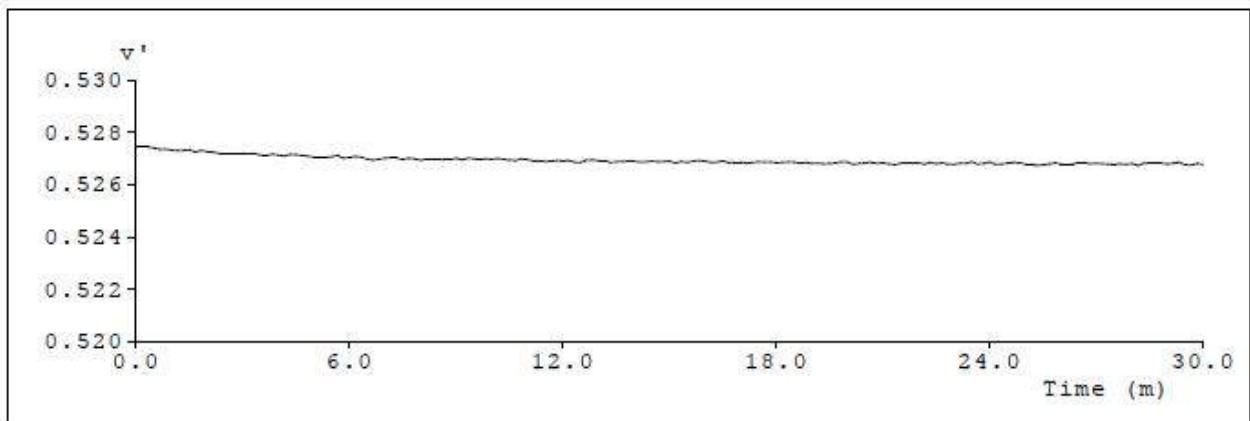
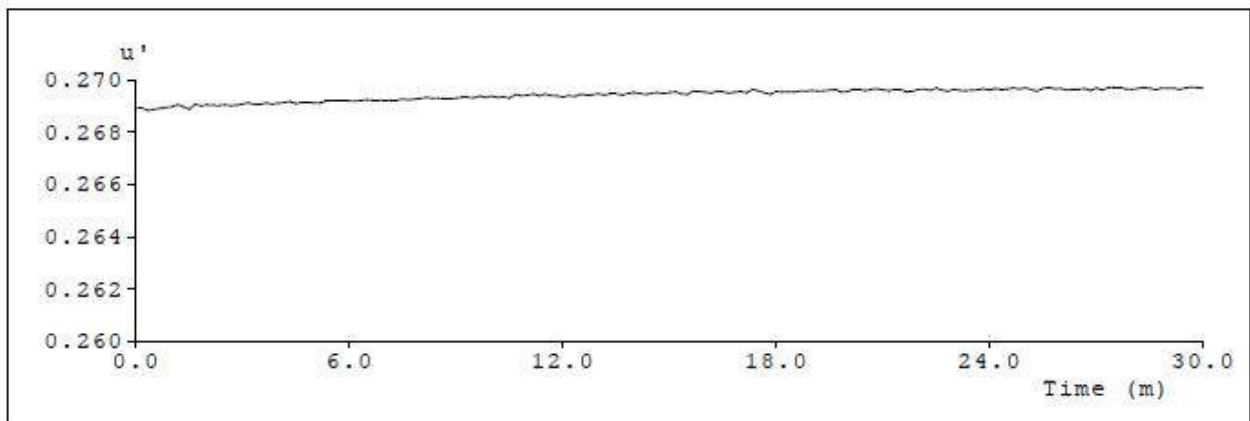
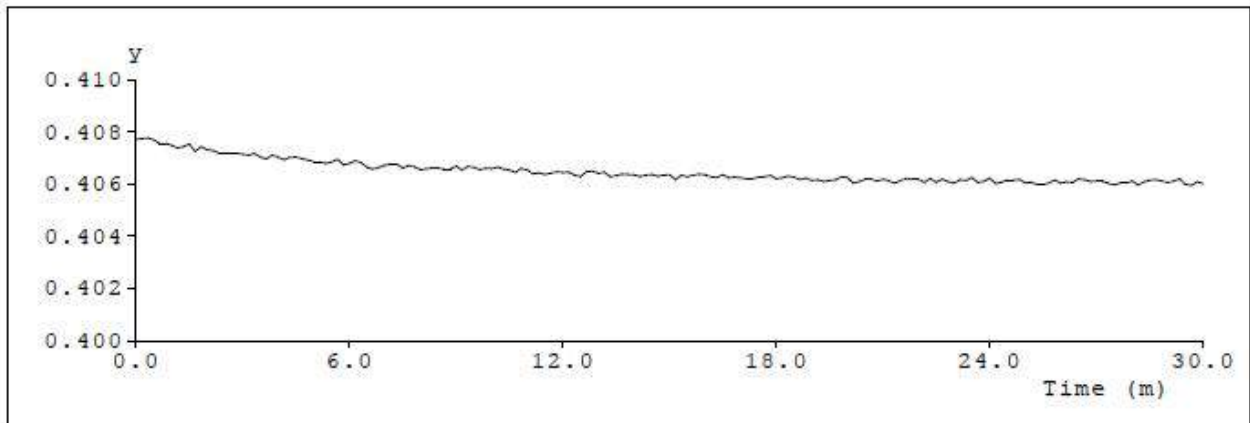
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91	00h15m10s	0.5348	24	12.8352	529.15	0.4676	0.4062	0.2695	0.5268	2562	93.1
92	00h15m20s	0.5348	24	12.8352	529.28	0.4676	0.4063	0.2695	0.5269	2563	93.1
93	00h15m30s	0.5349	24	12.8376	529.17	0.4675	0.4063	0.2694	0.5268	2564	93.1
94	00h15m40s	0.5349	24	12.8376	529.17	0.4677	0.4063	0.2696	0.5269	2561	93.1
95	00h15m50s	0.5349	24	12.8376	529.23	0.4677	0.4064	0.2696	0.5269	2561	93.1
96	00h16m00s	0.535	24	12.84	528.97	0.4677	0.4064	0.2695	0.5269	2562	93.1
97	00h16m10s	0.535	24	12.84	528.97	0.4676	0.4063	0.2695	0.5269	2563	93.1
98	00h16m20s	0.5351	24	12.8424	528.79	0.4677	0.4062	0.2696	0.5269	2561	93.1
99	00h16m30s	0.5351	24	12.8424	528.87	0.4677	0.4063	0.2695	0.5269	2561	93.1
100	00h16m40s	0.5351	24	12.8424	528.64	0.4675	0.4062	0.2695	0.5268	2563	93.1
101	00h16m50s	0.5352	24	12.8448	528.57	0.4676	0.4063	0.2695	0.5269	2562	93.1
102	00h17m00s	0.5352	24	12.8448	528.31	0.4677	0.4062	0.2696	0.5269	2561	93.1
103	00h17m10s	0.5352	24	12.8448	528.33	0.4675	0.4062	0.2695	0.5268	2562	93.1
104	00h17m20s	0.5352	24	12.8448	528.27	0.4677	0.4062	0.2696	0.5269	2560	93.1
105	00h17m30s	0.5353	24	12.8472	528.19	0.4677	0.4063	0.2696	0.5269	2561	93.1
106	00h17m40s	0.5353	24	12.8472	528.3	0.4676	0.4063	0.2695	0.5269	2562	93.1
107	00h17m50s	0.5353	24	12.8472	528.22	0.4676	0.4063	0.2695	0.5269	2563	93.1
108	00h18m00s	0.5354	24	12.8496	528.13	0.4676	0.4062	0.2696	0.5268	2562	93.1
109	00h18m10s	0.5354	24	12.8496	528.07	0.4676	0.4062	0.2695	0.5268	2562	93.1
110	00h18m20s	0.5354	24	12.8496	528.04	0.4677	0.4063	0.2695	0.5269	2562	93.1
111	00h18m30s	0.5355	24	12.852	527.95	0.4676	0.4063	0.2695	0.5269	2562	93.1
112	00h18m40s	0.5355	24	12.852	527.67	0.4676	0.4062	0.2696	0.5268	2561	93
113	00h18m50s	0.5355	24	12.852	527.57	0.4677	0.4062	0.2696	0.5269	2561	93.1
114	00h19m00s	0.5355	24	12.852	527.61	0.4676	0.4061	0.2696	0.5268	2561	93
115	00h19m10s	0.5356	24	12.8544	527.36	0.4676	0.4062	0.2696	0.5268	2561	93.1
116	00h19m20s	0.5356	24	12.8544	527.61	0.4676	0.4061	0.2696	0.5268	2561	93.1
117	00h19m30s	0.5356	24	12.8544	527.24	0.4676	0.4061	0.2696	0.5268	2561	93
118	00h19m40s	0.5357	24	12.8568	527.29	0.4677	0.4062	0.2696	0.5268	2560	93.1
119	00h19m50s	0.5357	24	12.8568	527.36	0.4676	0.4063	0.2695	0.5269	2562	93.1
120	00h20m00s	0.5357	24	12.8568	527.29	0.4676	0.4062	0.2695	0.5269	2562	93
121	00h20m10s	0.5357	24	12.8568	527.1	0.4676	0.406	0.2696	0.5268	2560	93.1
122	00h20m20s	0.5358	24	12.8592	527.3	0.4677	0.4061	0.2696	0.5268	2560	93

123	00h20m30s	0.5358	24	12.8592	527.06	0.4677	0.4062	0.2696	0.5268	2561	93
124	00h20m40s	0.5358	24	12.8592	526.9	0.4677	0.4062	0.2696	0.5268	2560	93.1
125	00h20m50s	0.5358	24	12.8592	526.89	0.4677	0.4061	0.2697	0.5268	2560	93
126	00h21m00s	0.5359	24	12.8616	526.84	0.4677	0.4062	0.2696	0.5268	2560	93.1
127	00h21m10s	0.5359	24	12.8616	526.84	0.4676	0.4061	0.2696	0.5268	2561	93
128	00h21m20s	0.5359	24	12.8616	526.78	0.4676	0.406	0.2696	0.5268	2560	93.1
129	00h21m30s	0.5359	24	12.8616	526.73	0.4677	0.4061	0.2696	0.5268	2560	93.1
130	00h21m40s	0.536	24	12.864	526.7	0.4676	0.4062	0.2695	0.5268	2562	93
131	00h21m50s	0.536	24	12.864	526.62	0.4676	0.4062	0.2696	0.5268	2561	93.1
132	00h22m00s	0.536	24	12.864	526.56	0.4677	0.4062	0.2696	0.5268	2560	93
133	00h22m10s	0.536	24	12.864	526.38	0.4677	0.4061	0.2696	0.5268	2560	93.1
134	00h22m20s	0.536	24	12.864	526.54	0.4677	0.4062	0.2696	0.5268	2561	93
135	00h22m30s	0.5361	24	12.8664	526.36	0.4677	0.4061	0.2697	0.5268	2559	93
136	00h22m40s	0.5361	24	12.8664	526.4	0.4677	0.4062	0.2696	0.5268	2560	93
137	00h22m50s	0.5361	24	12.8664	526.43	0.4676	0.4061	0.2696	0.5268	2561	93
138	00h23m00s	0.5361	24	12.8664	526.22	0.4676	0.406	0.2696	0.5268	2560	93
139	00h23m10s	0.5362	24	12.8688	526.3	0.4677	0.4062	0.2696	0.5268	2561	93
140	00h23m20s	0.5362	24	12.8688	526.2	0.4676	0.4061	0.2696	0.5268	2561	93
141	00h23m30s	0.5362	24	12.8688	526.16	0.4677	0.4062	0.2696	0.5269	2560	93
142	00h23m40s	0.5362	24	12.8688	526.12	0.4676	0.4061	0.2696	0.5268	2560	93
143	00h23m50s	0.5362	24	12.8688	526.01	0.4677	0.4061	0.2697	0.5268	2559	93
144	00h24m00s	0.5363	24	12.8712	526.01	0.4677	0.4062	0.2696	0.5269	2560	93
145	00h24m10s	0.5363	24	12.8712	526.02	0.4677	0.406	0.2697	0.5268	2560	93
146	00h24m20s	0.5363	24	12.8712	525.91	0.4676	0.4061	0.2696	0.5268	2560	93
147	00h24m30s	0.5363	24	12.8712	525.9	0.4677	0.4061	0.2696	0.5268	2560	93
148	00h24m40s	0.5362	24	12.8688	525.75	0.4678	0.4061	0.2697	0.5268	2559	93
149	00h24m50s	0.5362	24	12.8688	525.65	0.4677	0.4062	0.2697	0.5268	2560	93
150	00h25m00s	0.5363	24	12.8712	525.48	0.4677	0.406	0.2697	0.5268	2559	93
151	00h25m10s	0.5363	24	12.8712	525.52	0.4676	0.4061	0.2696	0.5268	2560	93
152	00h25m20s	0.5363	24	12.8712	525.33	0.4675	0.406	0.2696	0.5267	2561	93
153	00h25m30s	0.5363	24	12.8712	525.13	0.4677	0.406	0.2697	0.5268	2559	93
154	00h25m40s	0.5363	24	12.8712	525.38	0.4677	0.406	0.2697	0.5268	2559	93
155	00h25m50s	0.5364	24	12.8736	525.56	0.4677	0.4061	0.2697	0.5268	2560	93

156	00h26m00s	0.5364	24	12.8736	525.21	0.4677	0.406	0.2697	0.5268	2559	93
157	00h26m10s	0.5364	24	12.8736	525.36	0.4676	0.4061	0.2696	0.5268	2561	93
158	00h26m20s	0.5364	24	12.8736	525.19	0.4676	0.4061	0.2696	0.5268	2560	93
159	00h26m30s	0.5364	24	12.8736	525.2	0.4677	0.4062	0.2696	0.5269	2560	93
160	00h26m40s	0.5364	24	12.8736	525.14	0.4678	0.4062	0.2697	0.5268	2559	93
161	00h26m50s	0.5365	24	12.876	525.08	0.4676	0.4061	0.2696	0.5268	2561	93
162	00h27m00s	0.5365	24	12.876	525.09	0.4678	0.4061	0.2697	0.5268	2559	93
163	00h27m10s	0.5365	24	12.876	525.11	0.4676	0.4061	0.2696	0.5268	2561	93
164	00h27m20s	0.5365	24	12.876	524.96	0.4677	0.406	0.2697	0.5268	2559	93
165	00h27m30s	0.5365	24	12.876	524.49	0.4677	0.406	0.2697	0.5268	2558	93
166	00h27m40s	0.5365	24	12.876	524.83	0.4678	0.406	0.2697	0.5268	2558	93
167	00h27m50s	0.5366	24	12.8784	524.81	0.4676	0.406	0.2697	0.5268	2560	93
168	00h28m00s	0.5366	24	12.8784	524.78	0.4677	0.4061	0.2696	0.5268	2560	93
169	00h28m10s	0.5366	24	12.8784	524.69	0.4676	0.4059	0.2697	0.5267	2560	93
170	00h28m20s	0.5366	24	12.8784	524.95	0.4678	0.4061	0.2697	0.5268	2559	92.9
171	00h28m30s	0.5366	24	12.8784	524.42	0.4678	0.4061	0.2697	0.5268	2559	93
172	00h28m40s	0.5366	24	12.8784	524.52	0.4677	0.4062	0.2696	0.5268	2560	93
173	00h28m50s	0.5367	24	12.8808	524.67	0.4678	0.4061	0.2697	0.5268	2559	93
174	00h29m00s	0.5367	24	12.8808	524.65	0.4677	0.406	0.2697	0.5268	2559	93
175	00h29m10s	0.5367	24	12.8808	524.42	0.4678	0.4061	0.2697	0.5268	2559	93
176	00h29m20s	0.5367	24	12.8808	524.59	0.4677	0.4062	0.2696	0.5269	2560	93
177	00h29m30s	0.5367	24	12.8808	524.43	0.4677	0.406	0.2697	0.5268	2559	93
178	00h29m40s	0.5367	24	12.8808	524.31	0.4677	0.4059	0.2697	0.5267	2558	93
179	00h29m50s	0.5367	24	12.8808	524.32	0.4678	0.4061	0.2697	0.5268	2559	93
180	00h30m00s	0.5368	24	12.8832	524.34	0.4677	0.406	0.2697	0.5268	2559	93

Test curves





*11.2 ANSI/IES TM-30-18 Color Rendition Report

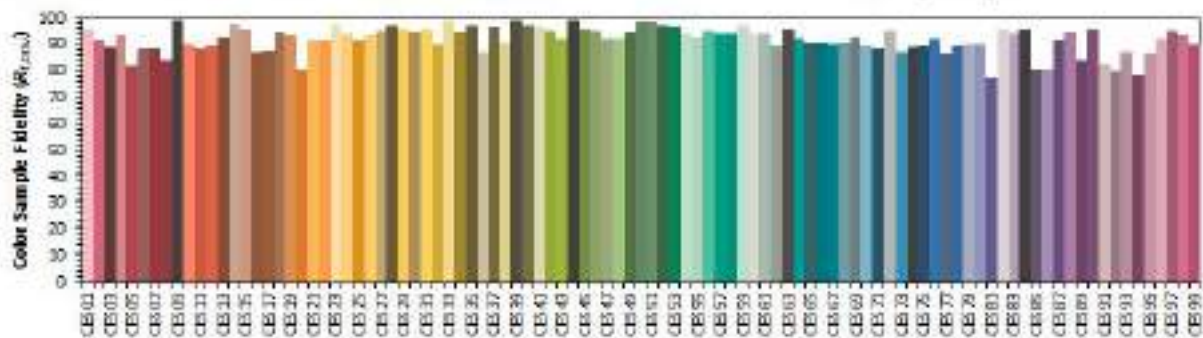
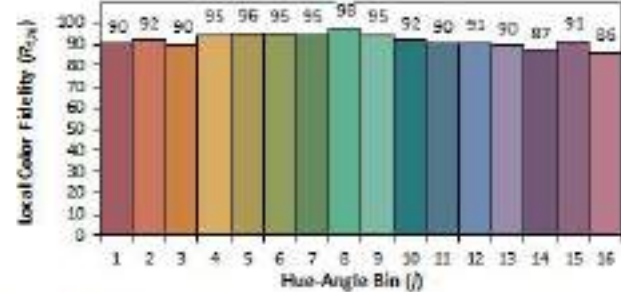
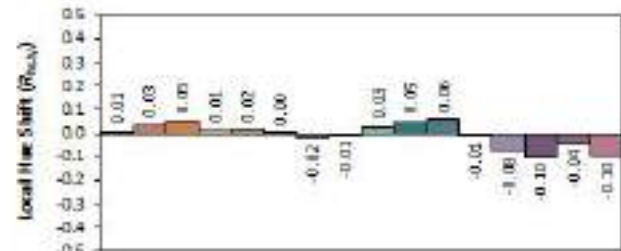
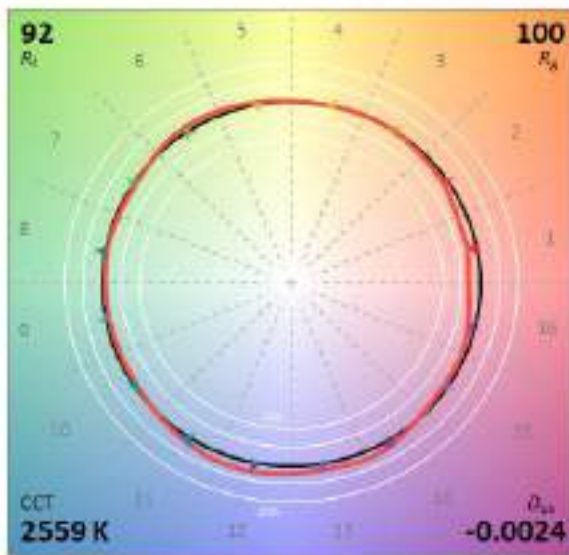
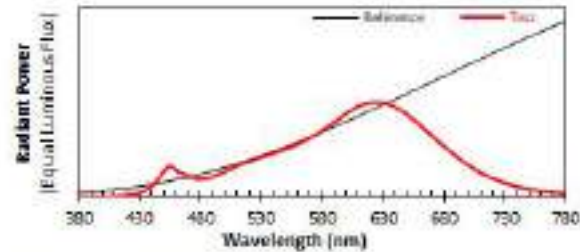
ANSI/IES TM-30-18 Color Rendition Report

Source:

Manufacturer: Guangdong Lunshub Technology Co., Ltd

Date: 2025/3/14

Model: LUPED0-0500V-L27-SP2-C-24-C (Vivaxy FLEX rail+shield+louver+return)

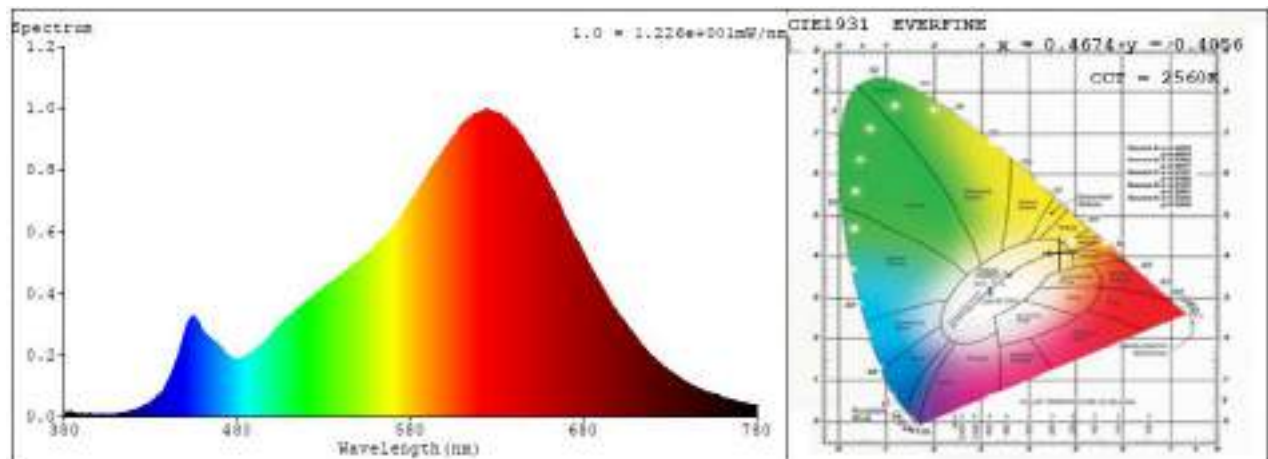


Notes: This is a recommended method for displaying ANSI/IES TM-30-18 information.

 x 0.4675 y 0.4056 u' 0.2697 v' 0.5266CIE 13.3-1995
(CRI) R_A 93 R_g 80

Colors are for visual orientation purposes only. Created with the ANSI/IES TM-30-18 Calculator Version 2.00.

11.3 Relative Spectral Power Distribution



nm	mW	nm	mW	nm	mW	nm	mW	nm	mW
380	0.01	414	0.0122	448	0.2315	482	0.1893	516	0.3545
381	0.0092	415	0.0105	449	0.2535	483	0.1861	517	0.3607
382	0.0102	416	0.0133	450	0.273	484	0.1928	518	0.3651
383	0.0053	417	0.015	451	0.2837	485	0.1928	519	0.3682
384	0.008	418	0.0182	452	0.2972	486	0.1952	520	0.3729
385	0.0107	419	0.0161	453	0.3147	487	0.1985	521	0.3763
386	0.0097	420	0.0189	454	0.3236	488	0.207	522	0.3803
387	0.0063	421	0.021	455	0.3149	489	0.2072	523	0.3843
388	0.0062	422	0.0254	456	0.3187	490	0.2121	524	0.3902
389	0.0039	423	0.0259	457	0.3068	491	0.2169	525	0.3946
390	0.0011	424	0.028	458	0.303	492	0.2189	526	0.3975
391	0.0064	425	0.03	459	0.2882	493	0.2249	527	0.3989
392	0.0053	426	0.0314	460	0.2758	494	0.2299	528	0.4065
393	0.0067	427	0.0337	461	0.2733	495	0.2365	529	0.4115
394	0.0004	428	0.0392	462	0.2634	496	0.2422	530	0.4186
395	0.0014	429	0.0427	463	0.2611	497	0.2475	531	0.4192
396	0.0053	430	0.0463	464	0.2552	498	0.2566	532	0.4243
397	0.0073	431	0.0509	465	0.2462	499	0.2565	533	0.4296
398	0.0057	432	0.0543	466	0.2408	500	0.2655	534	0.4307
399	0.0039	433	0.0602	467	0.2381	501	0.2744	535	0.4394
400	0.0033	434	0.0672	468	0.237	502	0.2771	536	0.4363
401	0.0049	435	0.0753	469	0.2284	503	0.287	537	0.444
402	0.0049	436	0.0765	470	0.2235	504	0.2921	538	0.4491
403	0.003	437	0.0865	471	0.2199	505	0.2941	539	0.4521
404	0.0049	438	0.0906	472	0.2098	506	0.3014	540	0.4572
405	0.0059	439	0.1023	473	0.2065	507	0.3079	541	0.4598
406	0.0049	440	0.1108	474	0.2001	508	0.312	542	0.464
407	0.0065	441	0.1218	475	0.197	509	0.3165	543	0.4658
408	0.0086	442	0.135	476	0.1924	510	0.3263	544	0.4739
409	0.0059	443	0.1487	477	0.1848	511	0.3285	545	0.4756
410	0.0083	444	0.164	478	0.1885	512	0.3342	546	0.484
411	0.0079	445	0.1784	479	0.1863	513	0.3385	547	0.489
412	0.0096	446	0.1944	480	0.1862	514	0.3444	548	0.4927
413	0.0097	447	0.2113	481	0.185	515	0.3501	549	0.4974

nm	mW	nm	mW	nm	mW	nm	mW	nm	mW
550	0.4976	599	0.8608	648	0.8754	697	0.3596	746	0.0935
551	0.5061	600	0.8669	649	0.8679	698	0.354	747	0.0906
552	0.5062	601	0.8765	650	0.861	699	0.3431	748	0.0894
553	0.5161	602	0.8886	651	0.848	700	0.335	749	0.0856
554	0.5201	603	0.8949	652	0.8417	701	0.3241	750	0.0826
555	0.525	604	0.899	653	0.8305	702	0.3155	751	0.0811
556	0.5277	605	0.9104	654	0.8204	703	0.3105	752	0.0782
557	0.5364	606	0.914	655	0.8105	704	0.3004	753	0.0759
558	0.5427	607	0.9241	656	0.7982	705	0.2939	754	0.0736
559	0.5487	608	0.9299	657	0.7867	706	0.2849	755	0.072
560	0.5498	609	0.9469	658	0.779	707	0.2793	756	0.0687
561	0.5604	610	0.9446	659	0.7646	708	0.2728	757	0.0682
562	0.5657	611	0.9484	660	0.7562	709	0.2619	758	0.0657
563	0.5706	612	0.9562	661	0.7382	710	0.2562	759	0.064
564	0.5783	613	0.9604	662	0.7285	711	0.251	760	0.0636
565	0.585	614	0.9681	663	0.7246	712	0.2449	761	0.0605
566	0.5878	615	0.9682	664	0.7126	713	0.2362	762	0.0588
567	0.5932	616	0.9727	665	0.6985	714	0.2302	763	0.0575
568	0.6038	617	0.981	666	0.6895	715	0.224	764	0.0555
569	0.6072	618	0.977	667	0.6731	716	0.2159	765	0.0538
570	0.613	619	0.9809	668	0.667	717	0.2128	766	0.0522
571	0.6232	620	0.9877	669	0.6568	718	0.2063	767	0.0506
572	0.6321	621	0.9824	670	0.6434	719	0.1995	768	0.0493
573	0.6411	622	0.9882	671	0.6324	720	0.1951	769	0.0479
574	0.6463	623	0.9888	672	0.6183	721	0.1902	770	0.0464
575	0.6549	624	0.9883	673	0.607	722	0.1858	771	0.0455
576	0.6591	625	0.9852	674	0.5959	723	0.1805	772	0.044
577	0.6705	626	0.9902	675	0.5812	724	0.1752	773	0.0433
578	0.6755	627	0.9854	676	0.5764	725	0.1697	774	0.0409
579	0.6817	628	0.9845	677	0.5642	726	0.1645	775	0.0409
580	0.6912	629	0.9841	678	0.5492	727	0.1613	776	0.0388
581	0.6985	630	0.9845	679	0.5434	728	0.156	777	0.0382
582	0.7041	631	0.9791	680	0.5301	729	0.1518	778	0.0368
583	0.7171	632	0.9788	681	0.5196	730	0.1466	779	0.0363
584	0.7261	633	0.9827	682	0.5096	731	0.1461	780	0.0364
585	0.7371	634	0.9695	683	0.4971	732	0.1395		
586	0.7411	635	0.9717	684	0.4892	733	0.1372		
587	0.7509	636	0.9559	685	0.477	734	0.1331		
588	0.7601	637	0.9554	686	0.4667	735	0.1286		
589	0.7721	638	0.9527	687	0.4585	736	0.1246		
590	0.7835	639	0.9419	688	0.448	737	0.122		
591	0.7902	640	0.9384	689	0.436	738	0.1171		
592	0.7933	641	0.934	690	0.4297	739	0.1143		
593	0.8079	642	0.9203	691	0.4189	740	0.1111		
594	0.8157	643	0.9145	692	0.4076	741	0.108		
595	0.8289	644	0.9125	693	0.397	742	0.1043		
596	0.8332	645	0.905	694	0.3876	743	0.1022		
597	0.8425	646	0.8973	695	0.3773	744	0.0992		
598	0.851	647	0.8831	696	0.3676	745	0.0967		

12. Goniophotometer Test results for LVFK40-0500W-L27-SP2-O-24-G(Vivoxy FLEX rail+shield+louver+return)

12.1 Test Data

Test Ambient Temperature	25.2°C	Test orientation	Downward
Operate time(Min.)	90	stabilization time(Min.)	30

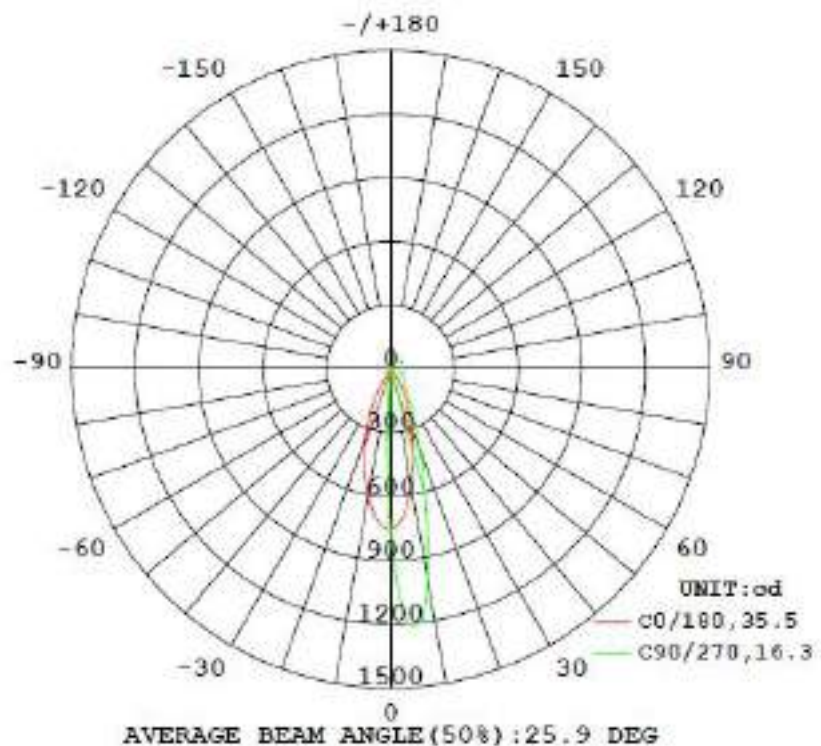
Electrical Measurement

Input Voltage (V)	Frequency (Hz)	Input Current(A)	Power Factor	Power(W)
24	--	0.528	1.0000	12.67

Optical Measurement

Luminous Flux (lm)	Efficacy(lm/W)	Imax (cd)	S/MH(C0/180)	S/MH(C90/270)
513.56	40.53	1228	0.59	0.10

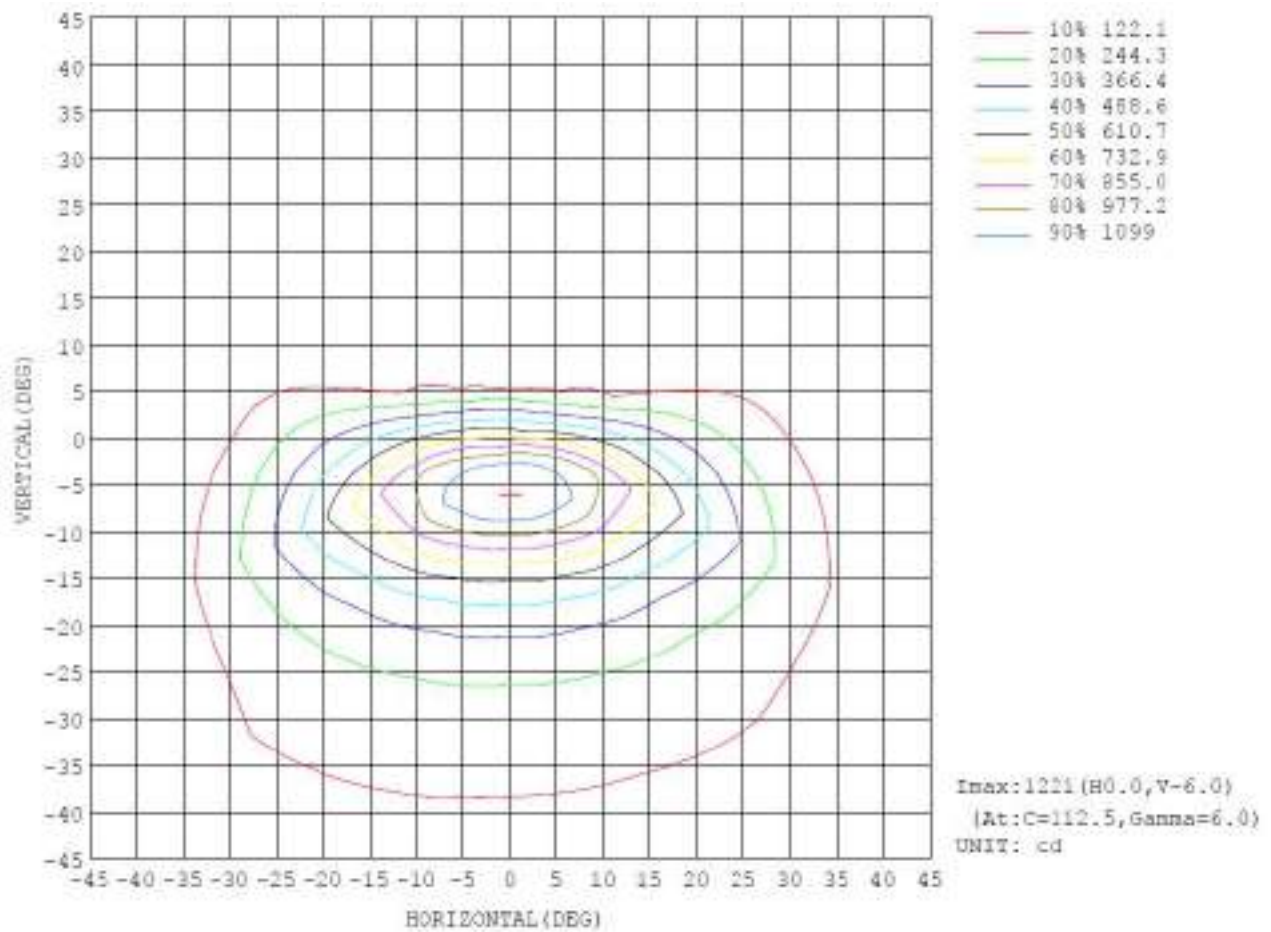
12.2 Luminous Intensity Distribution



12.3 Zonal Flux Diagram

Y	C0	C45	C90	C135	C180	C225	C270	C315	Y	± error	± total	±unc, lamp
10	266.7	1656	994.9	1120	693.3	39.31	3.749	36.27	0- 10	62.62	62.62	12.2,12.2
20	266.2	483.4	401.4	527.4	329.1	4.531	1.749	4.465	10- 20	166.2	170.7	33.2,33.2
30	117.9	213.5	189.9	246.1	119.4	1.538	0.9814	1.256	20- 30	82.43	238.1	83.3,49.8
40	27.20	116.6	113.5	132.0	21.76	0.9223	0	0.5071	30- 40	48.34	321.8	88.7,54.7
50	14.00	79.96	85.50	86.54	14.22	0.6220	0	0.2162	40- 50	31.51	312.8	64.0,64.0
60	12.46	62.52	69.84	66.94	12.71	0.7967	0	0.2139	50- 60	24.94	339.8	70.1,70.1
70	8.946	51.47	54.49	53.04	19.01	0.8111	0	0.3604	60- 70	14.44	384.2	74.8,74.8
80	4.929	41.17	45.75	42.07	6.304	0.6362	0	0.3754	70- 80	21.36	405.6	78.70
90	1.273	40.69	49.17	45.94	2.351	0.8099	0	0.4132	80- 90	14.74	425.4	82.8,82.8
100	0	42.65	54.83	44.33	0	0.7636	0	0.4181	90-100	28.05	445.4	86.7,86.7
110	0	42.11	60.24	43.63	0	0.6626	0	0.3961	100-110	18.54	464.8	90.3,90.3
120	0	38.16	63.07	39.62	0	0.5158	0	0.3493	110-120	17.81	482.7	94.44
130	0.0221	32.48	60.63	33.70	0.0319	0.1925	0	0.3454	120-130	14.87	497.6	96.9,96.9
140	0.0894	26.82	52.06	17.88	0.1229	0.3934	0.1502	0.4418	130-140	13.87	508.3	98.98
150	0.1653	1.587	19.64	1.754	0.2822	0.4231	0.4522	0.4854	140-150	4.402	512.8	98.8,98.8
160	0.2828	0.4093	0.3057	0.3784	0.4945	0.3927	0.4468	0.4124	150-160	0.5748	513.5	100,100
170	0.2141	0.2618	0.1808	0.1044	0.0951	0.3170	0.2278	0.1896	160-170	0.0976	513.8	100,100
180	0.3181	0.1947	0.0932	0.0497	0.3182	0.2926	0.1363	0.0466	170-180	0.0181	513.8	100,100
DO5	LUMINOUS INTENSITYred									±MTIm		

12.4 Isocandela Diagram



12.5 Luminous Distribution Intensity Data

Table--1

UNIT: cd

C (DEG) Y (DEG)	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5			
0	752	752	752	752	752	752	752	752	752	752	752	752	752	752	752	752			
5	693	649	612	580	552	527	504	481	459	437	415	393	371	349	327	305			
10	645	605	572	541	512	484	457	430	403	376	349	322	295	268	241	214			
15	609	572	541	512	484	457	430	403	376	349	322	295	268	241	214	187			
20	584	550	519	490	462	435	408	381	354	327	300	273	246	219	192	165			
25	569	537	507	479	452	425	398	371	344	317	290	263	236	209	182	155			
30	564	533	504	477	450	423	396	369	342	315	288	261	234	207	180	153			
35	569	539	511	484	457	430	403	376	349	322	295	268	241	214	187	160			
40	584	555	528	501	474	447	420	393	366	339	312	285	258	231	204	177			
45	609	582	556	530	504	478	452	426	400	374	348	322	296	270	244	218			
50	645	620	596	572	548	524	500	476	452	428	404	380	356	332	308	284			
55	693	669	646	623	600	577	554	531	508	485	462	439	416	393	370	347			
60	752	730	708	686	664	642	620	598	576	554	532	510	488	466	444	422			
65	821	800	779	758	737	716	695	674	653	632	611	590	569	548	527	506			
70	900	880	860	840	820	800	780	760	740	720	700	680	660	640	620	600			
75	990	970	950	930	910	890	870	850	830	810	790	770	750	730	710	690			
80	1090	1070	1050	1030	1010	990	970	950	930	910	890	870	850	830	810	790			
85	1200	1180	1160	1140	1120	1100	1080	1060	1040	1020	1000	980	960	940	920	900			
90	1320	1300	1280	1260	1240	1220	1200	1180	1160	1140	1120	1100	1080	1060	1040	1020			
95	1450	1430	1410	1390	1370	1350	1330	1310	1290	1270	1250	1230	1210	1190	1170	1150			
100	1590	1570	1550	1530	1510	1490	1470	1450	1430	1410	1390	1370	1350	1330	1310	1290			
105	1740	1720	1700	1680	1660	1640	1620	1600	1580	1560	1540	1520	1500	1480	1460	1440			
110	1900	1880	1860	1840	1820	1800	1780	1760	1740	1720	1700	1680	1660	1640	1620	1600			
115	2070	2050	2030	2010	1990	1970	1950	1930	1910	1890	1870	1850	1830	1810	1790	1770			
120	2250	2230	2210	2190	2170	2150	2130	2110	2090	2070	2050	2030	2010	1990	1970	1950			
125	2440	2420	2400	2380	2360	2340	2320	2300	2280	2260	2240	2220	2200	2180	2160	2140			
130	2640	2620	2600	2580	2560	2540	2520	2500	2480	2460	2440	2420	2400	2380	2360	2340			
135	2850	2830	2810	2790	2770	2750	2730	2710	2690	2670	2650	2630	2610	2590	2570	2550			
140	3070	3050	3030	3010	2990	2970	2950	2930	2910	2890	2870	2850	2830	2810	2790	2770			
145	3300	3280	3260	3240	3220	3200	3180	3160	3140	3120	3100	3080	3060	3040	3020	3000			
150	3540	3520	3500	3480	3460	3440	3420	3400	3380	3360	3340	3320	3300	3280	3260	3240			
155	3790	3770	3750	3730	3710	3690	3670	3650	3630	3610	3590	3570	3550	3530	3510	3490			
160	4050	4030	4010	3990	3970	3950	3930	3910	3890	3870	3850	3830	3810	3790	3770	3750			
165	4320	4300	4280	4260	4240	4220	4200	4180	4160	4140	4120	4100	4080	4060	4040	4020			
170	4600	4580	4560	4540	4520	4500	4480	4460	4440	4420	4400	4380	4360	4340	4320	4300			
175	4890	4870	4850	4830	4810	4790	4770	4750	4730	4710	4690	4670	4650	4630	4610	4590			
180	5190	5170	5150	5130	5110	5090	5070	5050	5030	5010	4990	4970	4950	4930	4910	4890			

13.Photo of sample



Figure 1 Overview of LVFK40-0500W-L27-SP2-O-24-G(Vivoxy FLEX rail)

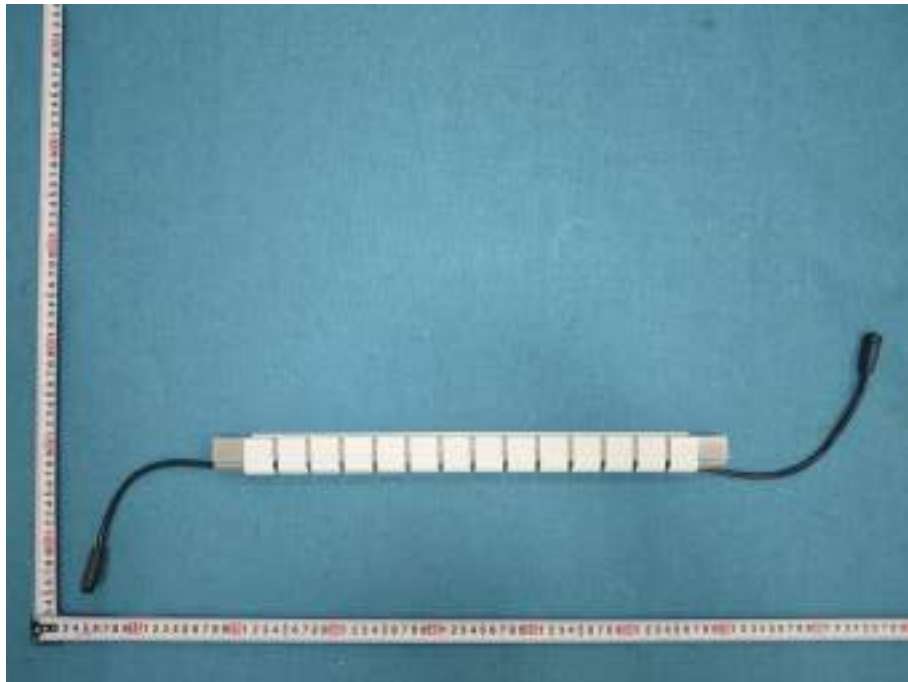


Figure 2 Overview of LVFK40-0500W-L27-SP2-O-24-G(Vivoxy FLEX rail)

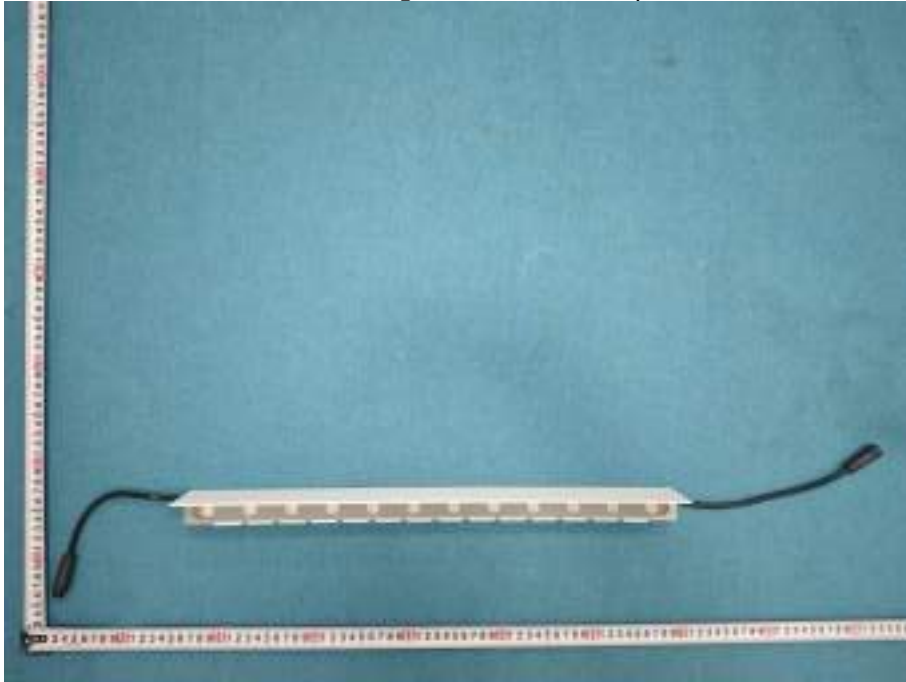


Figure 3 Overview of LVFK40-0500W-L27-SP2-O-24-G(Vivoxy FLEX rail+shield)

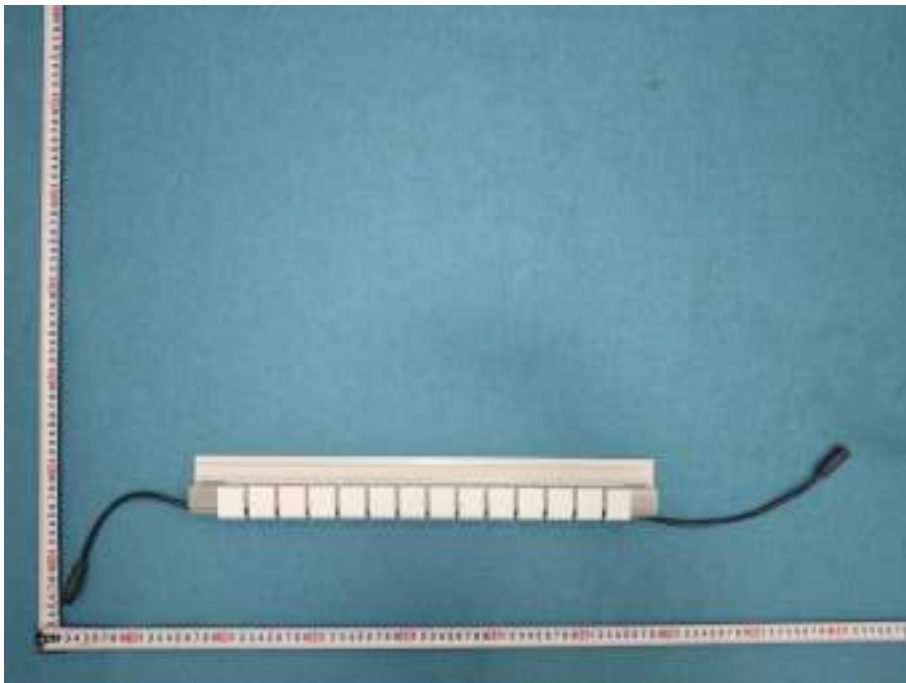


Figure 4 Overview of LVFK40-0500W-L27-SP2-O-24-G(Vivoxy FLEX rail+shield)

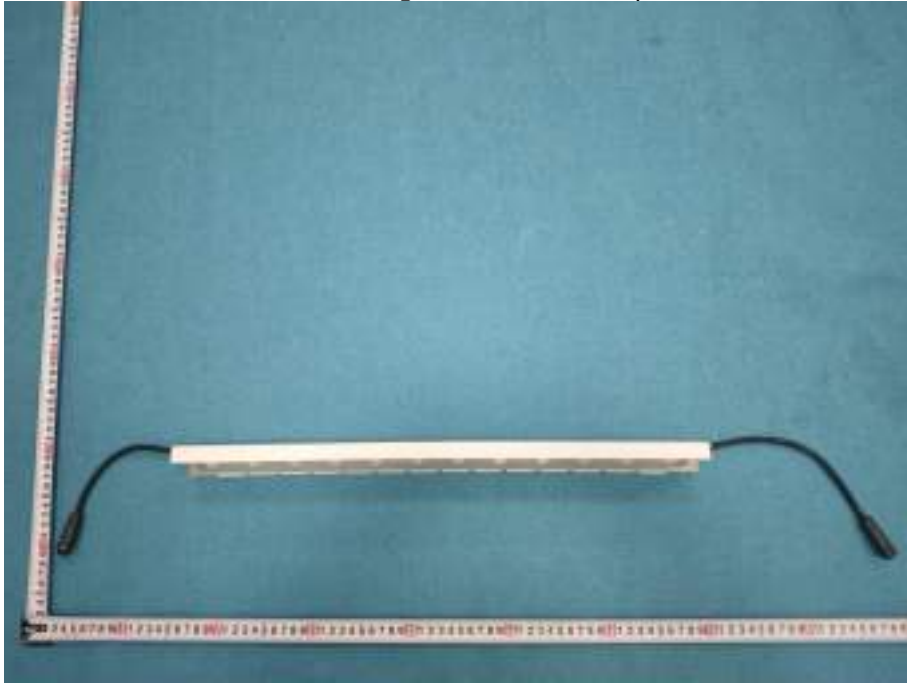


Figure 5 Overview of LVFK40-0500W-L27-SP2-O-24-G(Vivoxy FLEX rail+shield+louver)

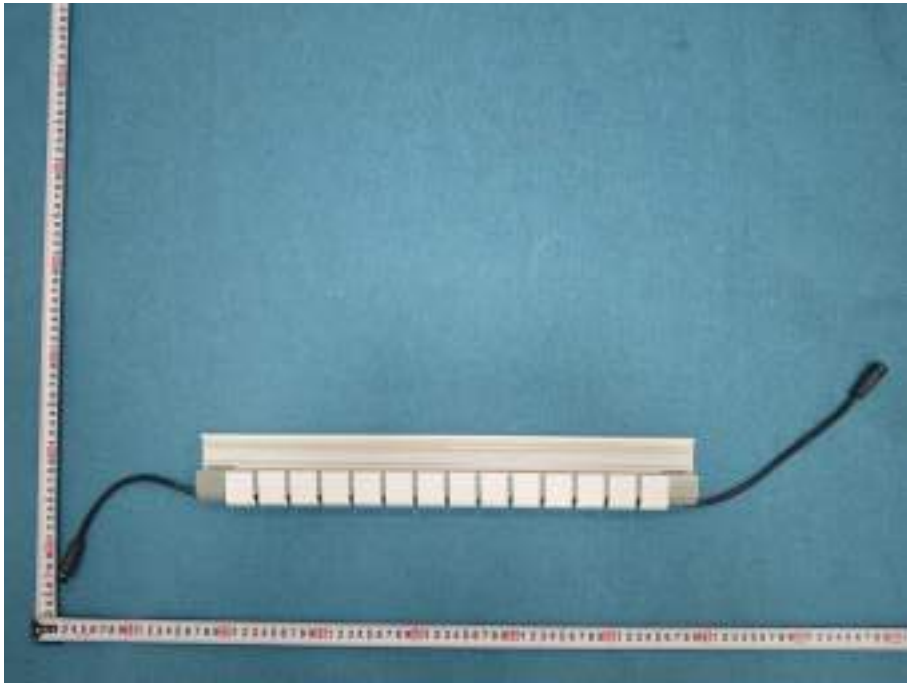


Figure 6 Overview of LVFK40-0500W-L27-SP2-O-24-G(Vivoxy FLEX rail+shield+louver)



Figure 7 Overview of LVFK40-0500W-L27-SP2-O-24-G(Vivoxy FLEX rail+shield+louver+return)



Figure 8 Overview of LVFK40-0500W-L27-SP2-O-24-G(Vivoxy FLEX rail+shield+louver+return)

---End of Report---