Photometric Test Report

Relevant Standards

☑ IES LM-79-2019

Prepared For

GREEN CREATIVE LTD

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Catalog Number

EXCYL6/SM/L/8CCT3S/DIM010UNV//*******/CC**

Project Number

4791741321

Report Number

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2024-09-12

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Revision Date

N/A

Prepared By	Approved By
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Becky Fan	Susie Shao

1.0 Test List

Sample Received Date: 2024-09-02

Test No.	Test Item	Sample ID	Model Number	Test Conducted By
1	Integrating Sphere Test	7560634-1	EXCYL6/SM/L/8CCT3S/DIM010UNV/SP/BK/CC	James Tan
2	Integrating Sphere Test	7560634-2	EXCYL6/SM/L/8CCT3S/DIM010UNV/VN/BK/CC	James Tan
3	Integrating Sphere Test	7560634-3	EXCYL6/SM/L/8CCT3S/DIM010UNV/NR/BK/CC	James Tan
4	Integrating Sphere Test	7560634-4	EXCYL6/SM/L/8CCT3S/DIM010UNV/MD/BK/CC	James Tan
5	Goniophotometer Test	7560634-1	EXCYL6/SM/L/8CCT3S/DIM010UNV/SP/BK/CC	James Tan

Remark (if any)

[X] 1. UL test equipment information is recorded on Meter Use in UL's Aurora database.

2.0 Product Description

Luminaire Description: Downlight, Surface Mount

Model Number: EXCYL6/SM/L/8CCT3S/DIM010UNV/SP/BK/CC

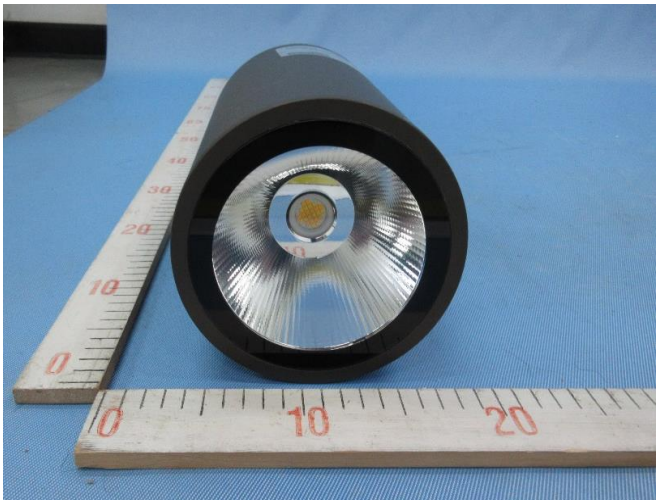
Electrical Ratings and CCT: 120-277V, 50/60Hz, 30W, 3000K/3500K/4000K color tunable

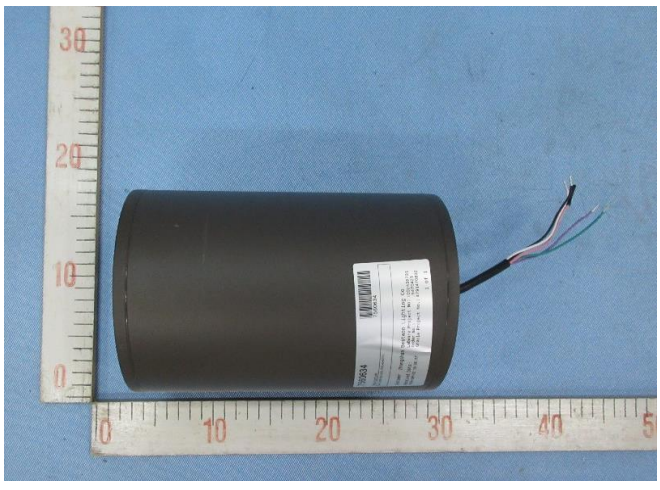
Driver Model Number: GIFBK030W

LED Package: BXCP-30E-11M-J23-3-A1 and BXCP-40E-11M-J23-3-A1, Bridgelux

Family Model and Variation: EXCYL6/SM/L/8CCT3S/DIM010UNV/**/*******/CC, where "**" represents beam angle, can be SP=15°, VN=25°, NR=40°, MD=60° or blank. "*******" represents finish color, can be BK=Black, WH=White, BZ=Bronze, SV=Silver or RALxxxx=other colors.

Photos of Luminaire Characteristics





3.0 LM-79 Measurement and Test Results

3.1 Integrating Sphere Test at 3000K

Model No.	EXCYL6/SM/L/8CCT3S/DIM010UNV/SP/BK/CC	Sample ID.	7560634-1
Operate time (Min.)	55	Stabilization time (Min.)	50

Test Method

1.The sample was tested according to the IES LM-79-2019, and the product is assume to be brand new without seasoning.
2.Photometric paramters were measured using an integrating sphere, a spectroradiometer and software. The ambient temperature condition inside the sphere was maintained at 25º C ± 0.9º C.The reference standard lamp is power 100W omni-directional Incandescent lamp and was calibrated by National Institute of Metrology, China.
3.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.

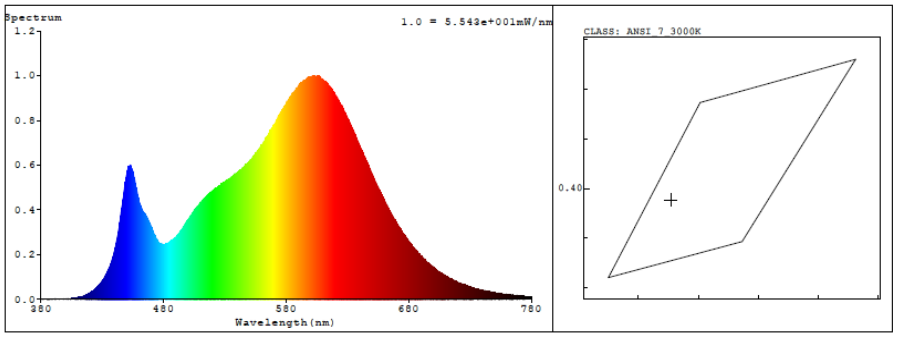
Integrating Sphere Test Conditions

Temperature (°C)	Voltage (Vac)	Frequency (Hz)	Current (A)	Power (W)	Power Factor	Orientation
24.9	120	60	0.244	28.85	0.9851	Face down

Test Results

CCT (K)	CRI (Ra)	R9	x	y	Luminous Flux (lm)	Luminous Efficacy (lm/W)
3151	83.7	10	0.4254	0.3977	2757.4	95.6

Spectrum



Colorimetric Parameters

Chromaticity Coordinate: x = 0.4254 y = 0.3977 / u' = 0.2458 v' = 0.5171 (duv=-8.69e-04)
CCT= 3151K Prcp WL: Ld=582.5nm Purity=47.1%
Peak WL: Lp=602nm FWHM: =131.4nm Ratio:R=22.2% G=74.7% B=3.0%
Render Index: Ra = 83.7 TM30:Rf=85 Rg=95
R1 =83 R2 =93 R3 =95 R4 =81 R5 =83 R6 =91 R7 =83
R8 =60 R9 =10 R10=84 R11=81 R12=74 R13=85 R14=98 R15=75

3.0 LM-79 Measurement and Test Results

3.1 Integrating Sphere Test at 3500K

Model No.	EXCYL6/SM/L/8CCT3S/DIM010UNV/SP/BK/CC	Sample ID.	7560634-1
Operate time (Min.)	55	Stabilization time (Min.)	50

Test Method

1.The sample was tested according to the IES LM-79-2019, and the product is assume to be brand new without seasoning.
2.Photometric paramters were measured using an integrating sphere, a spectroradiometer and software. The ambient temperature condition inside the sphere was maintained at 25º C ± 0.9º C.The reference standard lamp is power 100W omni-directional Incandescent lamp and was calibrated by National Institute of Metrology, China.
3.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.

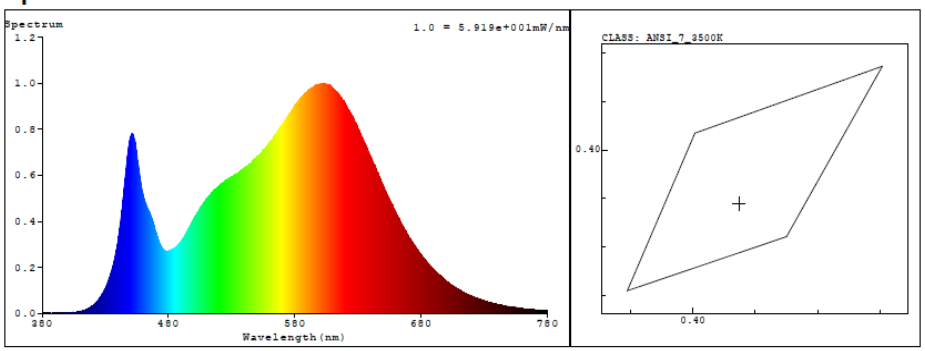
Integrating Sphere Test Conditions

Temperature (°C)	Voltage (Vac)	Frequency (Hz)	Current (A)	Power (W)	Power Factor	Orientation
25.1	120	60	0.241	28.45	0.9847	Horizontal

Test Results

CCT (K)	CRI (Ra)	R9	x	y	Luminous Flux (lm)	Luminous Efficacy (lm/W)
3440	84.9	15	0.4073	0.3889	3114.7	109.5

Spectrum



Colorimetric Parameters

Chromaticity Coordinate: x = 0.4073 y = 0.3889 / u' = 0.2378 v' = 0.5108 (duv=-1.26e-03)
CCT= 3440K Prcp WL: Ld=581.6nm Purity=39.0%
Peak WL: Lp=603nm FWHM: =144.1nm Ratio:R=20.9% G=75.8% B=3.3%
Render Index: Ra = 84.9 TM30:Rf=85 Rg=96

R1 =84	R2 =93	R3 =96	R4 =83	R5 =84	R6 =90	R7 =85	
R8 =64	R9 =15	R10=82	R11=83	R12=72	R13=86	R14=99	R15=77

3.0 LM-79 Measurement and Test Results

3.1 Integrating Sphere Test at 4000K

Model No.	EXCYL6/SM/L/8CCT3S/DIM010UNV/SP/BK/CC	Sample ID.	7560634-1
Operate time (Min.)	55	Stabilization time (Min.)	50

Test Method

1.The sample was tested according to the IES LM-79-2019, and the product is assume to be brand new without seasoning.
2.Photometric paramters were measured using an integrating sphere, a spectroradiometer and software. The ambient temperature condition inside the sphere was maintained at 25º C ± 0.9º C.The reference standard lamp is power 100W omni-directional Incandescent lamp and was calibrated by National Institute of Metrology, China.
3.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.

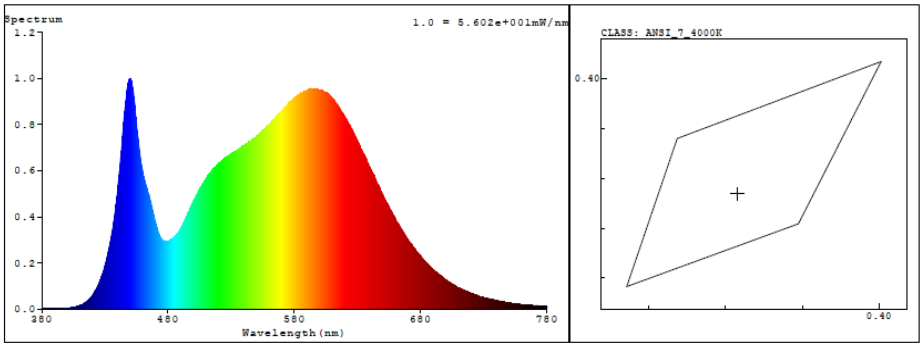
Integrating Sphere Test Conditions

Temperature (°C)	Voltage (Vac)	Frequency (Hz)	Current (A)	Power (W)	Power Factor	Orientation
25.1	120	60	0.250	29.6	0.9858	face down

Test Results

CCT (K)	CRI (Ra)	R9	x	y	Luminous Flux (lm)	Luminous Efficacy (lm/W)
3972	84	12	0.3815	0.3769	3066.3	103.6

Spectrum



Colorimetric Parameters

Chromaticity Coordinate: x = 0.3815 y = 0.3769 / u' = 0.2258 v' = 0.5018 (duv=-2.56e-04)
CCT= 3972K Prcp WL: Ld=579.3nm Purity=27.6%
Peak WL: Lp=450nm FWHM: =24.9nm Ratio:R=18.6% G=77.8% B=3.7%
Render Index: Ra = 84.0 TM30:Rf=85 Rg=96

R1 =83	R2 =90	R3 =95	R4 =83	R5 =83	R6 =86	R7 =86	
R8 =66	R9 =12	R10=76	R11=83	R12=66	R13=84	R14=98	R15=76

3.0 LM-79 Measurement and Test Results

3.2 Integrating Sphere Test at 3000K

Model No.	EXCYL6/SM/L/8CCT3S/DIM010UNV/VN/BK/CC	Sample ID.	7560634-2
Operate time (Min.)	55	Stabilization time (Min.)	50

Test Method

1.The sample was tested according to the IES LM-79-2019, and the product is assume to be brand new without seasoning.
2.Photometric paramters were measured using an integrating sphere, a spectroradiometer and software. The ambient temperature condition inside the sphere was maintained at 25º C ± 0.9º C.The reference standard lamp is power 100W omni-directional Incandescent lamp and was calibrated by National Institute of Metrology, China.
3.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.

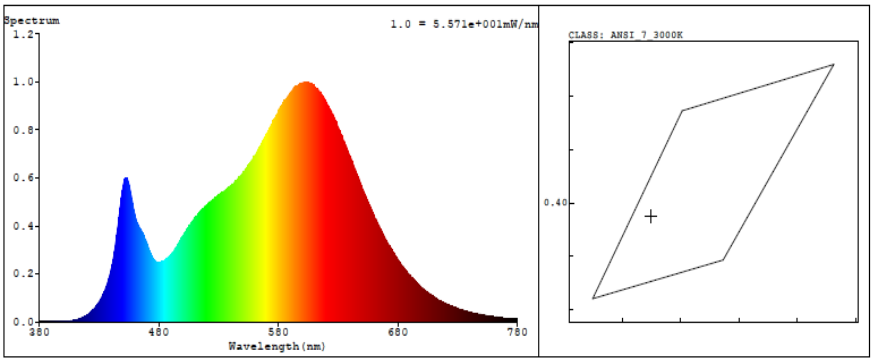
Integrating Sphere Test Conditions

Temperature (°C)	Voltage (Vac)	Frequency (Hz)	Current (A)	Power (W)	Power Factor	Orientation
24.9	120	60	0.244	28.83	0.9851	Face down

Test Results

CCT (K)	CRI (Ra)	R9	x	y	Luminous Flux (lm)	Luminous Efficacy (lm/W)
3158	83.7	10	0.425	0.3975	2775.8	96.3

Spectrum



Colorimetric Parameters

Chromaticity Coordinate: x = 0.4250 y = 0.3975 / u' = 0.2456 v' = 0.5170 (duv=-8.81e-04)
CCT= 3158K Prcp WL: Ld=582.5nm Purity=46.9%
Peak WL: Lp=602nm FWHM: =130.9nm Ratio:R=22.2% G=74.8% B=3.0%
Render Index: Ra = 83.7 TM30:Rf=85 Rg=95
R1 =83 R2 =93 R3 =95 R4 =82 R5 =83 R6 =91 R7 =83
R8 =60 R9 =10 R10=84 R11=81 R12=74 R13=85 R14=98 R15=75

3.0 LM-79 Measurement and Test Results

3.3 Integrating Sphere Test at 3000K

Model No.	EXCYL6/SM/L/8CCT3S/DIM010UNV/NR/BK/CC	Sample ID.	7560634-3
Operate time (Min.)	55	Stabilization time (Min.)	50

Test Method

1.The sample was tested according to the IES LM-79-2019, and the product is assume to be brand new without seasoning.
2.Photometric paramters were measured using an integrating sphere, a spectroradiometer and software. The ambient temperature condition inside the sphere was maintained at 25º C ± 0.9º C.The reference standard lamp is power 100W omni-directional Incandescent lamp and was calibrated by National Institute of Metrology, China.
3.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.

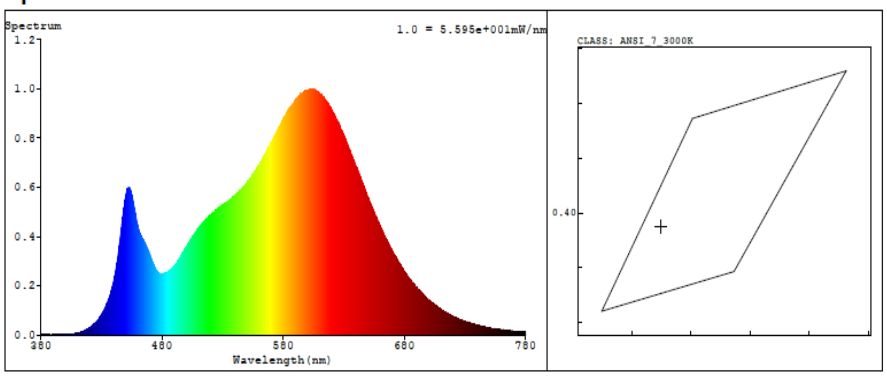
Integrating Sphere Test Conditions

Temperature (°C)	Voltage (Vac)	Frequency (Hz)	Current (A)	Power (W)	Power Factor	Orientation
24.9	120	60	0.244	28.84	0.9851	Face down

Test Results

CCT (K)	CRI (Ra)	R9	x	y	Luminous Flux (lm)	Luminous Efficacy (lm/W)
3164	83.7	10	0.4249	0.3976	2787.1	96.6

Spectrum



Colorimetric Parameters

Chromaticity Coordinate: x = 0.4249 y = 0.3976 / u' = 0.2456 v' = 0.5170 (duv=-8.49e-04)
CCT= 3159K Prcp WL: Ld=582.5nm Purity=46.9%
Peak WL: Lp=602nm FWHM: =132.1nm Ratio:R=22.2% G=74.8% B=3.0%
Render Index: Ra = 83.7 TM30:Rf=85 Rg=95

R1 =83	R2 =93	R3 =95	R4 =82	R5 =83	R6 =91	R7 =83	
R8 =60	R9 =10	R10=84	R11=81	R12=74	R13=85	R14=98	R15=75

3.0 LM-79 Measurement and Test Results

3.4 Integrating Sphere Test at 3000K

Model No.	EXCYL6/SM/L/8CCT3S/DIM010UNV/MD/BK/CC	Sample ID.	7560634-4
Operate time (Min.)	55	Stabilization time (Min.)	50

Test Method

1.The sample was tested according to the IES LM-79-2019, and the product is assume to be brand new without seasoning.
2.Photometric paramters were measured using an integrating sphere, a spectroradiometer and software. The ambient temperature condition inside the sphere was maintained at 25º C ± 0.9º C.The reference standard lamp is power 100W omni-directional Incandescent lamp and was calibrated by National Institute of Metrology, China.
3.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.

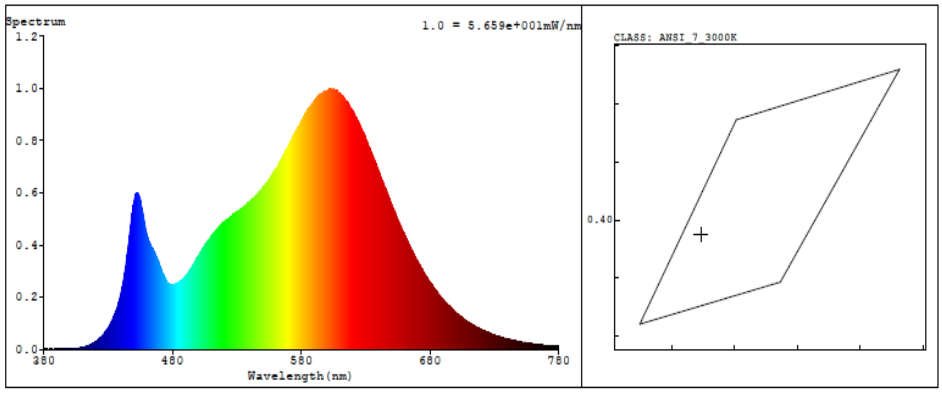
Integrating Sphere Test Conditions

Temperature (°C)	Voltage (Vac)	Frequency (Hz)	Current (A)	Power (W)	Power Factor	Orientation
24.9	120	60	0.244	28.85	0.9851	Face down

Test Results

CCT (K)	CRI (Ra)	R9	x	y	Luminous Flux (lm)	Luminous Efficacy (lm/W)
3164	83.8	10	0.4247	0.3975	2814	97.5

Spectrum



Colorimetric Parameters

Chromaticity Coordinate: x = 0.4247 y = 0.3975 / u' = 0.2454 v' = 0.5169 (duv=-8.25e-04)
CCT= 3164K Prcp WL: Ld=582.5nm Purity=46.8%
Peak WL: Lp=603nm FWHM: =131.7nm Ratio:R=22.2% G=74.8% B=3.0%
Render Index: Ra = 83.8 TM30:Rf=85 Rg=95
R1 =83 R2 =93 R3 =95 R4 =82 R5 =83 R6 =91 R7 =83
R8 =60 R9 =10 R10=84 R11=81 R12=74 R13=85 R14=98 R15=75

3.0 LM-79 Measurement and Test Results

3.5 Goniophotometer Test at 4000K

Model No.	EXCYL6/SM/L/8CCT3S/DIM010UNV/SP/BK/CC	Sample ID.	7560634-1
Operate time (Min.)	60	Stabilization time (Min.)	50

Test Method

1.The sample was tested according to the IES LM-79-2019, and the product is assume to be brand new without seasoning.
2.Photometric paramters were measured using a type C goniophotometer and software.
3.The ambient temperature shall be maintained at 25° C ± 0.9° C, measured at a point not more than 1.5 m from the sample and at the same height as the sample. The reference standard lamp is power 400W omni-directional Incandescent lamp and was calibrated by National Institute of Metrology, China.
4.The samples were operated at rated voltage and was stabilized before measurement. Luminous flux, luminaire efficacy, zonal lumen 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.

Goniophotometer Test Conditions

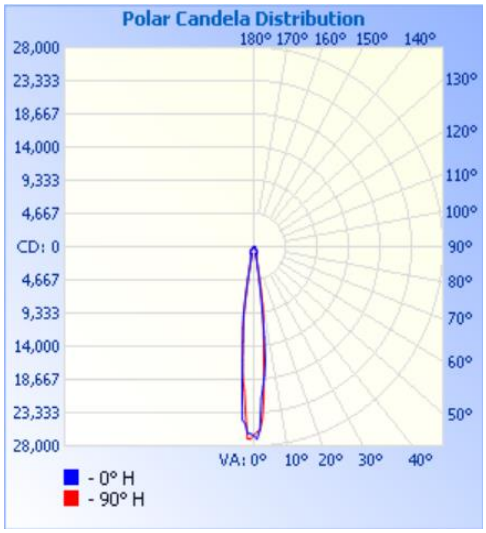
Temperature (°C)	Voltage (Vac)	Frequency (Hz)	Current (A)	Power (W)	Power Factor	Orientation
24.4	120	60	0.082	29.28	0.9960	face down

Test Results

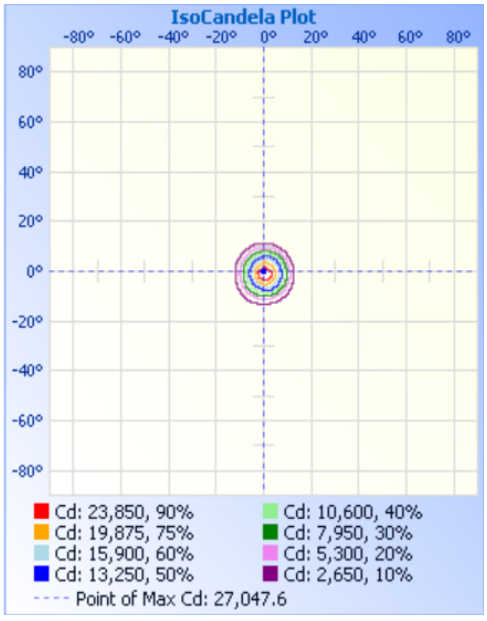
Flux (lm)	Zonal Lumen % (0-60°)	Field Angle (10%)		Beam Angle (50%)		Luminous Efficacy (lm/W)
		Horizontal Spread	Vertical Spread	Horizontal Spread	Vertical Spread	
3078.6	99.8	24.5	24.5	13.6	13.6	105.1

3.5 Goniophotometer Test (Cont'd)

Light Distribution Curve



IsoCandela Plot



3.5 Goniophotometer Test (Cont'd)

Zonal Lumen Summary

Zonal Lumen Summary		
Zone	Lumens	% Luminaire
0-30	2,281.0	74.1%
0-40	2,822.7	91.7%
0-60	3,067.6	99.6%
60-90	4.5	0.1%
70-100	2.0	0.1%
90-120	0.4	0%
0-90	3,072.1	99.8%
90-180	6.6	0.2%
0-180	3,078.6	100%

Lumens Per Zone

Lumens Per Zone					
Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	1,333.3	43.3%	90-100	0.1	0%
10-20	500.7	16.3%	100-110	0.2	0%
20-30	447.0	14.5%	110-120	0.1	0%
30-40	541.7	17.6%	120-130	0.2	0%
40-50	237.0	7.7%	130-140	0.5	0%
50-60	7.9	0.3%	140-150	0.9	0%
60-70	2.7	0.1%	150-160	2.0	0.1%
70-80	1.3	0.0%	160-170	1.9	0.1%
80-90	0.5	0.0%	170-180	0.6	0%

3.5 Goniophotometer Test (Cont'd)

Intensity Data(cd)

	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5	360
0	26500	26500	26500	26500	26500	26500	26500	26500	26500	26500	26500	26500	26500	26500	26500	26500	26500
1	27043	26096	25869	26015	26044	26103	26160	26259	26330	26525	26752	26941	27048	27031	26860	26617	26227
2	25715	25793	25613	25712	25851	25923	26005	26074	26160	26384	26656	26847	26960	26910	26733	26390	25969
3	21288	21748	22415	23530	24240	24169	24517	24961	24888	24929	25128	24268	23396	23000	22701	22223	21733
4	19628	19315	19443	20331	21294	21891	22786	23691	24398	24136	23410	21534	20202	19990	20141	20040	19333
5	18125	16495	16095	16285	16778	17604	17793	18239	20185	20631	20010	19117	18592	18306	18681	18018	16817
6	16229	13211	13171	13558	13913	14128	13981	14183	16076	16887	16845	16375	16112	15913	15965	14912	13531
7	12821	10812	10853	11389	11687	11847	11899	12080	13429	14255	14219	13859	13451	13217	12967	11956	10841
8	8790	9094	9110	9721	9985	10249	10596	10769	11684	12257	12161	11791	11290	11090	10557	9681	8861
9	6095	7312	7470	7808	8277	8724	9052	9366	9875	10039	9982	9720	9146	8649	7990	7370	7082
10	4278	4957	5360	5503	5952	6462	6818	7108	7100	7052	7062	6881	6356	5741	5142	4810	4882
11	3030	3242	3554	3685	3847	4199	4746	4877	4547	4577	4690	4521	4152	3662	3150	2988	3126
12	2224	2161	2404	2581	2658	2909	3352	3490	3158	3137	3227	2987	2650	2295	2125	2034	2030
13	1713	1608	1750	1898	2004	2151	2424	2532	2359	2347	2329	2071	1819	1647	1560	1519	1517
14	1440	1364	1420	1504	1611	1719	1848	1917	1889	1833	1749	1605	1445	1360	1311	1286	1286
15	1258	1227	1248	1282	1362	1433	1478	1531	1574	1511	1416	1354	1271	1217	1202	1179	1184
16	1157	1153	1161	1174	1215	1262	1280	1318	1351	1298	1234	1226	1184	1155	1137	1126	1129
17	1103	1109	1111	1126	1130	1150	1174	1186	1207	1188	1153	1147	1130	1120	1108	1097	1099
18	1072	1077	1078	1094	1088	1096	1118	1120	1128	1129	1116	1106	1099	1097	1086	1072	1067
19	1043	1053	1057	1069	1063	1065	1085	1088	1088	1096	1091	1082	1080	1081	1065	1053	1045
20	1021	1028	1032	1039	1036	1043	1055	1060	1063	1074	1068	1060	1057	1059	1044	1026	1031
25	949	950	946	950	948	958	965	971	978	984	977	980	980	982	976	957	944
30	892	887	888	894	895	906	917	924	930	928	923	929	928	925	915	903	893
35	847	839	843	852	852	865	878	889	893	883	895	893	883	881	872	857	848
40	721	710	739	747	783	802	820	831	839	830	833	812	809	755	693	680	690
45	211	210	218	214	265	315	243	281	348	296	273	267	242	197	209	182	187
50	36	26	30	29	23	29	39	38	28	30	32	30	23	27	32	30	24
55	7	7	6	7	7	8	7	7	7	7	7	8	7	7	6	6	6
60	5	5	4	4	4	4	4	5	4	5	4	4	4	4	4	4	4
65	3	3	3	3	2	3	3	3	3	3	3	3	2	2	2	3	3
70	2	2	2	2	1	2	2	2	2	2	2	1	1	1	2	2	2
75	1	1	1	1	1	1	2	1	1	1	2	1	1	1	1	1	1
80	1	1	1	0	1	1	0	1	1	1	1	1	1	1	1	1	1
85	1	1	1	0	1	0	0	1	1	1	0	0	0	0	1	1	0
90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
100	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
105	0	0	1	0	0	0	0	1	0	1	0	0	1	0	1	0	0
110	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
115	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
120	0	0	0	0	1	0	1	0	0	0	0	1	0	1	0	0	0
125	0	0	0	0	0	0	1	1	0	0	0	1	0	0	0	0	0
130	1	1	1	0	0	0	0	0	1	1	0	1	1	0	1	0	0
135	1	1	0	1	0	1	0	1	1	1	0	1	1	1	1	1	1
140	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
145	1	1	2	1	2	1	2	1	1	1	2	2	1	2	1	1	1
150	3	3	3	3	3	3	2	3	3	3	2	2	3	3	3	3	2
155	4	5	4	5	5	5	5	4	4	4	4	4	4	5	5	5	5
160	6	6	6	6	5	6	6	6	6	5	6	5	6	6	6	6	6
165	6	7	6	6	7	7	7	6	6	7	7	7	6	7	7	7	7
170	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
175	6	6	7	6	6	6	6	7	6	7	6	6	7	6	6	6	6
180	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6

TESTING
NVLAP LAB CODE 200952-0

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