



STC Test Report

Date : 2014-04-21
No. : DE111504

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- Applicant (DGS100)** : Dongguan Shimei Optoelectronics Technology Co., Ltd.
Xiangxi Industrial Zone, Liaobu Town, Dongguan City,
Guangdong Province, China.
- Description of Sample(s)** : Submitted sample(s) said to be
Product: GGLED Module A12
Brand name: SMOT
Model No.: GGLED R40DCVW
Electrical rating: DC 40.6-49.0V, 0.82-0.98A, 40W
Quantity submitted: 1 piece
Country of origin: China
Country of destination: China
Manufacturer: Dongguan Shimei Optoelectronics
Technology Co., Ltd.
- Date Sample(s) Received** : 2014-04-04
- Date Tested** : 2014-04-04 to 2014-04-10
- Investigation Requested** : Luminous Intensity Distribution Measurements
- Test Method** : Luminous Intensity Distribution Measurements Referred to
IES LM-79-08 Electrical And Photometric Measurements
of Solid-State Lighting Products.
- Conclusion(s)** : See the test data in following pages
- Remark(s)** : --
-

Li Chang Jun, R1007
Authorized Signatory
Electrical Safety Department
For and on behalf of
STC (Dongguan) Company Limited



STC (Dongguan) Company Limited

68 Fumin Nan Road, Dalang, Dongguan, Guangdong, China (Zip Code: 523770)
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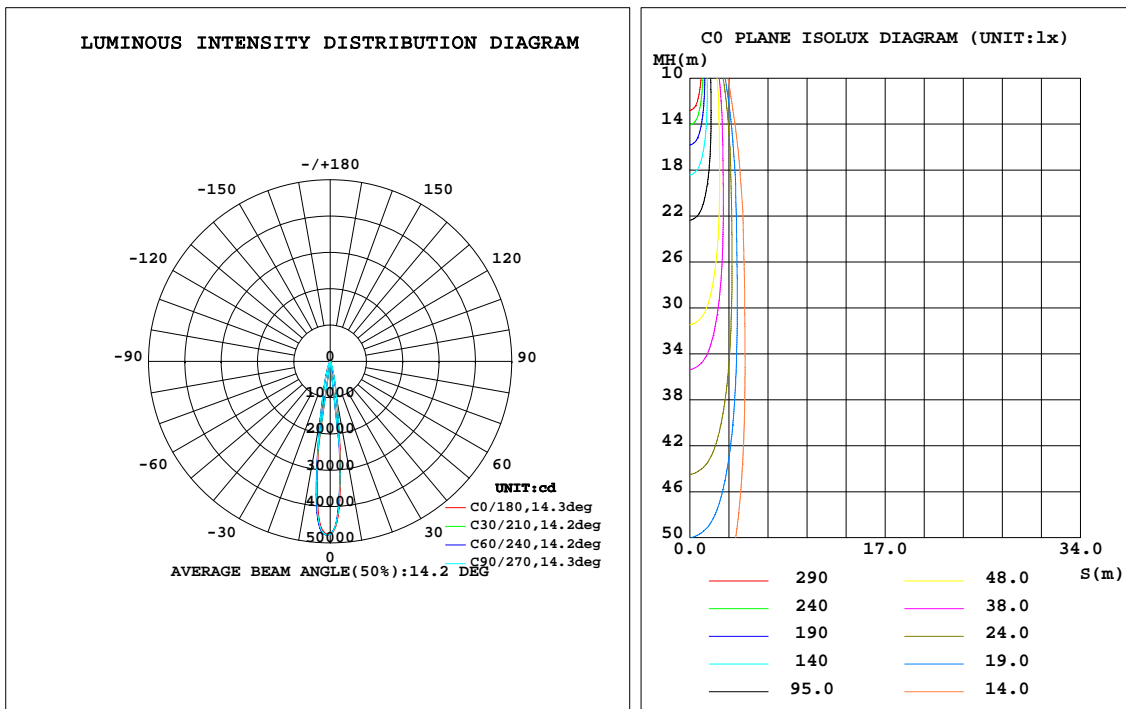
No. : DE111504

TEST DATA

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:40.20V I:0.9450A P:37.99W PF:1.000 Lamp Flux:4663.82x1 lm		
NAME: GGLED Module		
SPEC.:A12		
MFR.: Dongguan Shimei Optoelectronics Technology Co., Ltd.		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 122.76 lm/W			
MODEL	GGLEDR40DCVW	Imax(cd)	47806	S/MH(C0/180)	0.26
NOMINAL POWER(W)	40	LOR(%)	100.0	S/MH(C90/270)	0.27
RATED VOLTAGE(V)	40.6-49.0	TOTAL FLUX(lm)	4663.8	η UP, DN(C0-180)	0.0, 45.5
NOMINAL FLUX(lm)	4663.82	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.0, 54.4
LAMPS INSIDE	1	η up(%)	0.1	CIBSE SHR NOM	0.00
TEST VOLTAGE(V)	--	η down(%)	99.9	CIBSE SHR MAX	1.00



C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Taylor
 Test Date: 2014-04-06

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.284
 Humidity: 55.0%
 Test Distance: 2.582m [K=1.0000]
 Remarks:

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TEST DATA

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	lum, lamp
5	3293	3062	3120	3440	3952	4178	4098	3805	0- 5	1014	1014	21.7, 21.7
10	1059	1000.0	1045	1152	1396	1504	1475	1279	5- 10	1554	2567	55.55
15	361.5	291.8	382.6	468.3	537.4	526.6	522.6	370.0	10- 15	882.3	3449	74.74
20	117.4	90.86	149.7	148.2	242.3	144.0	186.7	101.4	15- 20	417.0	3866	82.9, 82.9
25	40.78	38.56	47.19	49.01	91.53	58.96	62.37	46.39	20- 25	192.0	4058	87.87
30	22.54	22.59	23.35	24.26	29.28	25.45	24.65	23.06	25- 30	84.56	4143	88.8, 88.8
35	18.90	18.16	18.41	19.48	19.61	19.89	19.82	19.77	30- 35	62.52	4206	90.2, 90.2
40	14.88	13.92	14.49	14.12	14.66	14.77	15.14	14.41	35- 40	55.08	4261	91.4, 91.4
45	13.27	12.02	12.43	12.18	13.09	12.26	12.83	12.31	40- 45	49.49	4310	92.4, 92.4
50	12.67	11.51	12.56	11.97	12.56	11.29	11.94	10.94	45- 50	48.39	4359	93.5, 93.5
55	11.24	11.88	12.21	12.51	12.19	11.76	11.20	10.75	50- 55	50.74	4409	94.5, 94.5
60	10.78	11.73	11.47	12.80	12.42	12.12	10.74	10.94	55- 60	54.05	4463	95.7, 95.7
65	9.591	10.58	9.726	10.94	11.08	11.49	9.735	9.958	60- 65	53.61	4517	96.9, 96.9
70	7.767	8.059	7.651	8.209	8.798	8.991	7.819	8.116	65- 70	46.89	4564	97.9, 97.9
75	5.883	5.685	5.517	5.853	6.314	6.401	5.911	6.068	70- 75	36.69	4600	98.6, 98.6
80	4.902	4.934	3.952	3.804	4.105	4.629	4.594	5.323	75- 80	27.95	4628	99.2, 99.2
85	2.156	2.431	3.044	2.655	3.263	2.760	3.530	3.482	80- 85	20.96	4649	99.7, 99.7
90	1.069	0.9360	0.9200	1.156	1.074	1.215	1.177	1.257	85- 90	10.29	4660	99.9, 99.9
95	0.0211	0.0081	0.0091	0.0448	0.1510	0.2134	0.1724	0.0997	90- 95	2.889	4663	100, 100
100	0.0025	0.0045	0.0032	0.0036	0.0023	0.0064	0.0037	0.0019	95-100	0.0867	4663	100, 100
105	0.0056	0.0153	0.0056	0.0059	0.0059	0.0106	0.0036	0.0025	100-105	0.0286	4663	100, 100
110	0.0084	0.0100	0.0071	0.0074	0.0072	0.0066	0.0043	0.0032	105-110	0.0388	4663	100, 100
115	0.0110	0.0155	0.0113	0.0171	0.0099	0.0090	0.0049	0.0058	110-115	0.0483	4663	100, 100
120	0.0131	0.0256	0.0345	0.0336	0.0108	0.0121	0.0060	0.0075	115-120	0.0607	4663	100, 100
125	0.1601	0.0213	0.1754	0.0351	0.0144	0.0122	0.0092	0.0291	120-125	0.1155	4663	100, 100
130	0.0187	0.0612	0.0269	0.0372	0.0142	0.0132	0.0093	0.0114	125-130	0.1283	4663	100, 100
135	0.0179	0.0337	0.0315	0.0328	0.0169	0.0816	0.0097	0.0104	130-135	0.1238	4663	100, 100
140	0.0197	0.0333	0.0397	0.0333	0.0216	0.0120	0.0094	0.0124	135-140	0.0870	4663	100, 100
145	0.0260	0.0375	0.0643	0.0152	0.0552	0.0071	0.0098	0.0068	140-145	0.0869	4663	100, 100
150	0.0624	0.2215	0.0810	0.0156	0.0938	0.0143	0.0148	0.0064	145-150	0.1352	4664	100, 100
155	0.0153	0.2203	0.0353	0.0154	0.0119	0.1475	0.0182	0.0053	150-155	0.1949	4664	100, 100
160	0.0135	0.0384	0.0242	0.0174	0.0083	0.0307	0.0037	0.0046	155-160	0.0580	4664	100, 100
165	0.0170	0.0238	0.0180	0.0160	0.0032	0.0090	0.0044	0.0043	160-165	0.0214	4664	100, 100
170	0.0201	0.0205	0.0196	0.0203	0.0029	0.0040	0.0030	0.0039	165-170	0.0137	4664	100, 100
175	0.0162	0.0148	0.0146	0.0172	0.0037	0.0033	0.0030	0.0038	170-175	0.0080	4664	100, 100
180	0.0029	0.0026	0.0032	0.0035	0.0032	0.0025	0.0026	0.0034	175-180	0.0016	4664	100, 100
DEG	LUMINOUS INTENSITY:×10cd										UNIT:lm	

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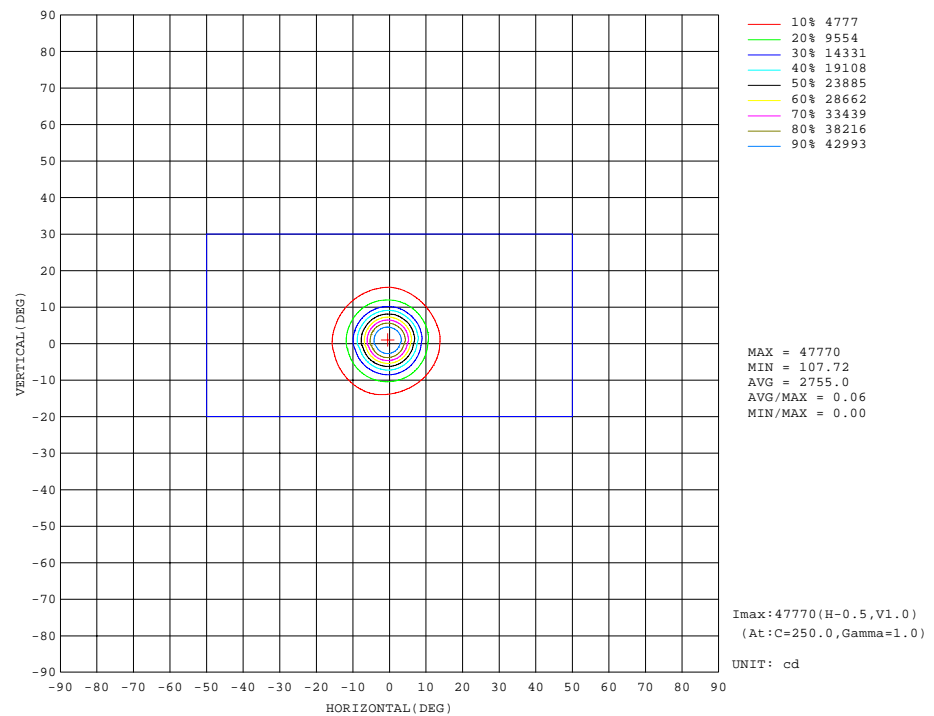
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TEST DATA

ISOCANDELA DIAGRAM



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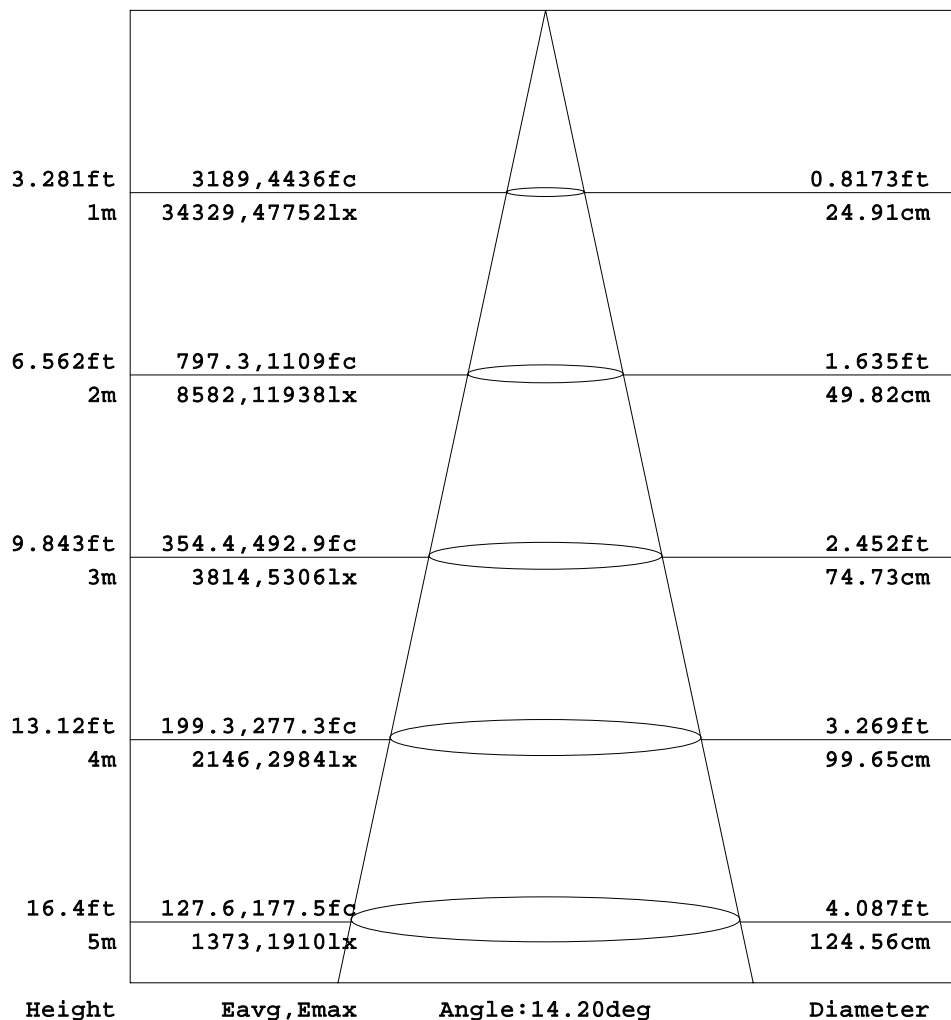
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TEST DATA

AAI Figure

Flux out:1869 lm



Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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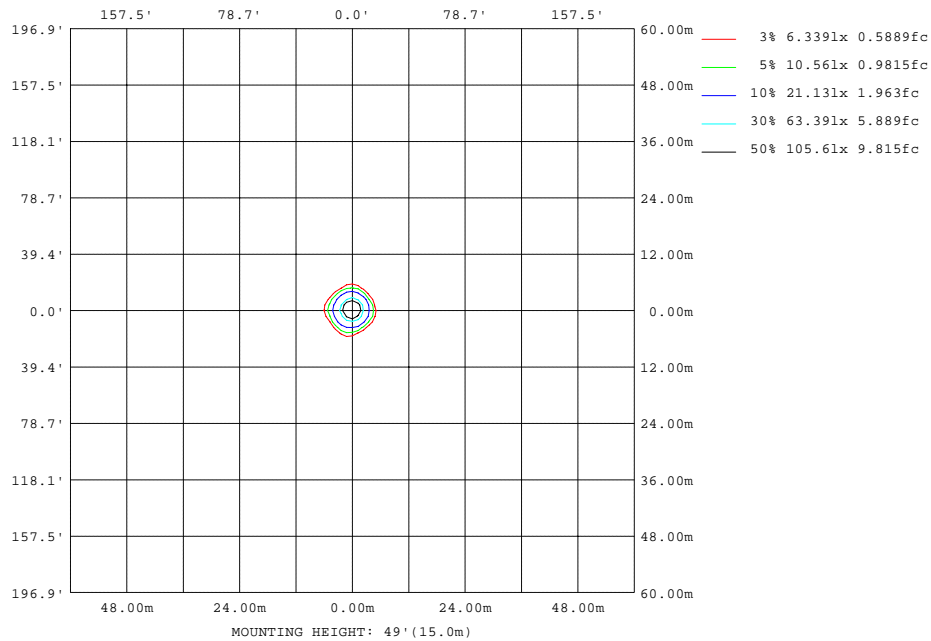
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TEST DATA

ISOLUX DIAGRAM



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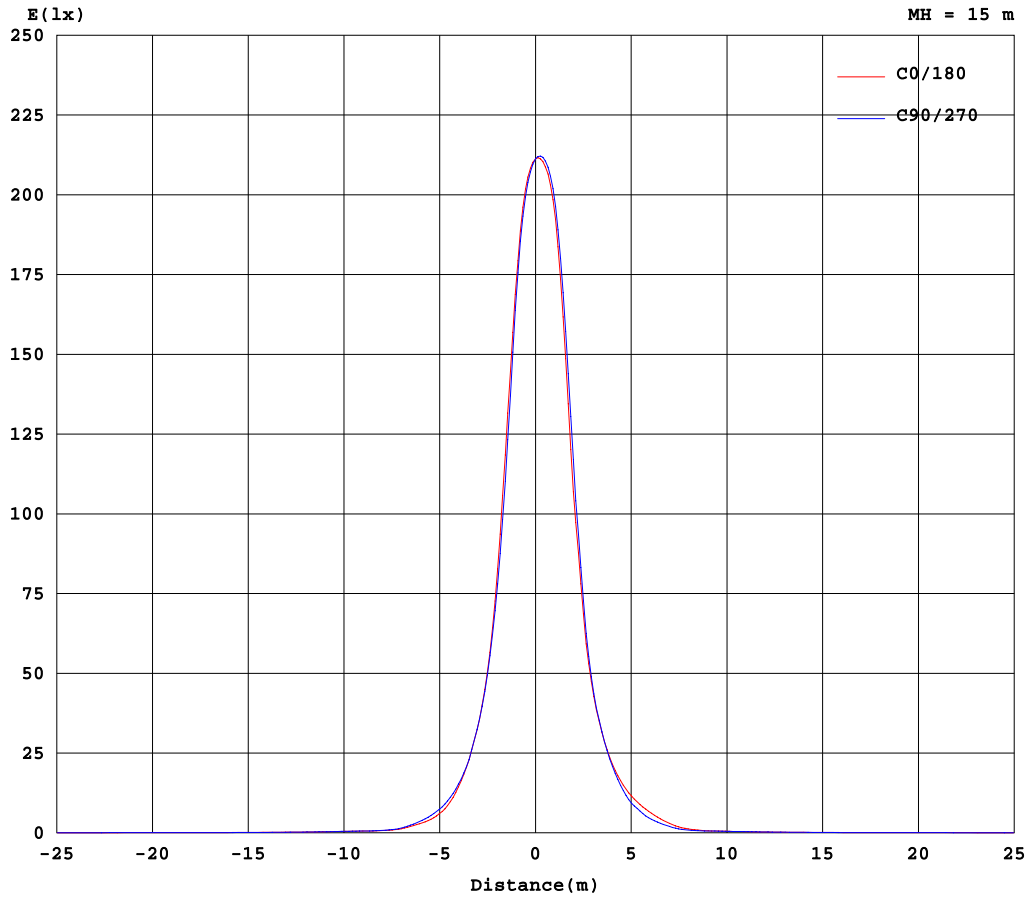
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TEST DATA

Planar Illuminance Curve



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TEST DATA

LUMINOUS DISTRIBUTION INTENSITY DATA

Table--1

UNIT: ×10cd

C(DEG) γ (DEG)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
0	4755	4755	4755	4755	4755	4755	4755	4755	4755	4755	4755	4755	4755	4755	4755	4755	4755	4755	4755
5	3293	3214	3152	3104	3068	3056	3055	3056	3082	3120	3166	3234	3314	3392	3488	3582	3669	3751	3952
10	1059	1033	1013	1001	999	1001	1005	1011	1028	1045	1066	1089	1110	1136	1167	1203	1237	1281	1396
15	362	360	335	311	296	288	295	316	349	383	416	441	451	463	474	486	499	507	537
20	117	123	112	98.2	91.3	90.4	92.7	101	123	150	179	189	173	154	142	147	170	203	242
25	40.8	41.5	39.8	39.2	38.8	38.3	38.6	39.3	41.0	47.2	63.0	63.2	53.8	48.6	49.4	50.4	55.4	71.0	91.5
30	22.5	22.6	22.4	22.3	22.5	22.7	22.5	22.4	22.8	23.4	24.0	24.2	24.1	24.1	24.4	24.5	24.7	25.4	29.3
35	18.9	18.9	19.2	18.7	18.3	18.0	19.1	17.5	18.0	18.4	18.5	18.4	18.3	20.5	18.5	19.8	18.7	19.3	19.6
40	14.9	15.2	14.5	14.1	13.9	13.9	13.8	13.8	14.1	14.5	14.0	14.4	14.2	14.3	13.9	14.5	14.4	14.9	14.7
45	13.3	12.6	12.4	12.4	12.3	11.7	11.8	12.4	12.0	12.4	12.9	12.8	12.3	12.1	12.2	12.0	12.2	12.5	13.1
50	12.7	12.6	11.9	11.9	11.6	11.4	11.4	12.0	12.0	12.6	12.7	12.4	12.2	12.0	11.9	11.8	12.1	12.2	12.6
55	11.2	11.0	11.2	11.7	11.9	11.9	11.8	12.3	12.1	12.2	12.1	12.2	12.3	12.4	12.6	12.4	12.5	12.3	12.2
60	10.8	10.0	10.3	11.2	11.9	11.6	12.0	12.0	11.5	11.5	11.7	12.2	12.1	12.4	13.2	12.9	12.6	12.5	12.4
65	9.59	8.92	9.31	10.2	10.7	10.4	10.5	10.5	10.2	9.73	10.0	10.4	10.1	10.4	11.5	11.1	10.9	11.2	11.1
70	7.77	7.14	7.43	7.97	8.16	7.95	8.12	8.28	7.98	7.65	7.94	8.04	7.69	7.78	8.63	8.22	8.16	8.82	8.80
75	5.88	5.55	5.48	5.84	5.78	5.59	5.74	5.89	5.75	5.52	5.77	5.73	5.38	5.57	6.14	5.82	5.81	6.40	6.31
80	4.90	4.79	4.29	4.98	5.18	4.69	4.59	4.93	4.72	3.95	3.96	4.12	3.64	3.68	3.92	3.74	3.80	4.27	4.11
85	2.16	3.26	3.16	2.89	2.65	2.22	2.26	2.66	3.02	3.04	2.28	2.68	2.68	2.86	2.45	2.73	2.52	3.31	3.26
90	1.07	0.99	0.95	1.05	0.95	0.93	0.86	0.93	0.90	0.92	1.03	1.12	1.08	1.04	1.27	1.16	1.10	1.26	1.07
95	0.02	0.01	0.02	0.01	0.01	0.00	0.01	0.00	0.02	0.01	0.01	0.03	0.02	0.04	0.05	0.08	0.08	0.10	0.15
100	0.00	0.00	0.00	0.00	0.01	0.00	0.01	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	0.01	0.00	0.01	0.00	0.03	0.00	0.03	0.00	0.01	0.01	0.01	0.01	0.00	0.01	0.01	0.01	0.00	0.00	0.01
110	0.01	0.01	0.04	0.01	0.01	0.01	0.02	0.00	0.03	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
115	0.01	0.01	0.01	0.02	0.02	0.01	0.02	0.01	0.02	0.01	0.01	0.01	0.01	0.02	0.01	0.01	0.01	0.01	0.01
120	0.01	0.03	0.01	0.02	0.03	0.02	0.03	0.02	0.02	0.03	0.04	0.02	0.02	0.04	0.03	0.02	0.01	0.02	0.01
125	0.16	0.13	0.02	0.03	0.02	0.02	0.03	0.02	0.03	0.18	0.10	0.03	0.14	0.03	0.04	0.02	0.09	0.07	0.01
130	0.02	0.02	0.02	0.08	0.06	0.06	0.04	0.04	0.03	0.03	0.03	0.03	0.04	0.04	0.03	0.03	0.03	0.02	0.01
135	0.02	0.02	0.02	0.03	0.03	0.04	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.04	0.03	0.04	0.04	0.02	0.02
140	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.06	0.04	0.04	0.04	0.04	0.06	0.04	0.02	0.04	0.06	0.03	0.02
145	0.03	0.03	0.03	0.04	0.04	0.04	0.04	0.05	0.06	0.06	0.13	0.04	0.03	0.02	0.01	0.02	0.02	0.03	0.06
150	0.06	0.03	0.13	0.20	0.20	0.25	0.29	0.25	0.35	0.08	0.09	0.03	0.02	0.02	0.02	0.01	0.01	0.03	0.09
155	0.02	0.02	0.08	0.15	0.26	0.18	0.12	0.06	0.07	0.04	0.02	0.02	0.02	0.02	0.02	0.01	0.02	0.01	0.01
160	0.01	0.02	0.02	0.03	0.04	0.04	0.03	0.02	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.01
165	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.00
170	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.00
175	0.02	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.00
180	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	0.00	0.00	0.00

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TEST DATA

LUMINOUS DISTRIBUTION INTENSITY DATA

Table--2

UNIT: ×10cd

C (DEG) γ (DEG)	190	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350		
0	4755	4755	4755	4755	4755	4755	4755	4755	4755	4755	4755	4755	4755	4755	4755	4755	4755		
5	4017	4081	4128	4167	4189	4186	4172	4144	4098	4045	3982	3908	3849	3761	3674	3591	3506		
10	1439	1469	1485	1498	1510	1513	1507	1495	1475	1440	1398	1346	1302	1256	1217	1181	1145		
15	535	529	531	528	525	526	525	521	523	498	463	422	383	357	349	356	368		
20	235	206	182	149	139	146	165	181	187	165	132	111	104	99.1	95.1	96.6	108		
25	89.0	72.1	61.1	59.1	58.8	58.9	58.9	61.6	62.4	56.6	52.3	49.5	47.2	45.6	43.9	43.0	42.8		
30	28.6	26.1	25.7	25.4	25.5	25.1	24.9	24.8	24.7	24.2	23.7	23.3	23.1	23.0	22.5	22.3	22.7		
35	19.9	19.6	19.7	20.0	19.8	19.5	19.5	19.9	19.8	19.5	19.6	19.3	20.6	19.0	19.3	18.7	19.0		
40	14.8	15.3	14.6	14.7	14.8	15.1	14.6	15.5	15.1	15.1	15.3	14.6	14.6	14.3	14.4	14.4	15.1		
45	12.9	12.2	12.5	12.4	12.1	12.2	12.5	12.4	12.8	13.1	12.4	12.1	12.2	12.4	12.1	12.0	12.5		
50	12.3	11.9	11.8	11.5	11.1	11.2	11.7	11.6	11.9	11.8	11.3	10.9	10.8	11.1	10.8	11.1	11.5		
55	11.9	11.9	12.1	11.9	11.6	11.4	11.5	11.1	11.2	11.1	10.9	10.7	10.7	10.9	10.7	11.0	11.1		
60	12.0	11.9	12.4	12.4	11.9	11.5	11.7	10.9	10.7	10.8	10.6	10.4	10.5	11.4	10.6	10.6	10.7		
65	10.5	10.6	11.5	11.7	11.3	11.4	11.0	10.2	9.74	9.84	9.62	9.11	9.51	10.4	9.61	9.36	9.74		
70	8.17	8.41	9.10	9.24	8.75	9.00	8.93	8.32	7.82	8.10	7.99	7.58	7.86	8.38	7.91	7.64	8.02		
75	6.01	6.14	6.56	6.54	6.27	6.26	6.52	6.31	5.91	6.07	6.12	5.70	5.81	6.33	5.75	5.69	6.12		
80	4.15	4.17	4.45	4.62	4.64	4.93	4.94	4.88	4.59	4.95	5.19	4.46	4.96	5.68	5.33	4.97	5.63		
85	3.23	3.08	3.40	2.68	2.84	3.19	3.79	3.92	3.53	3.52	3.61	3.16	3.69	3.27	3.22	3.04	3.59		
90	1.12	1.03	1.20	1.20	1.23	1.26	1.26	1.20	1.18	1.22	1.26	1.16	1.17	1.34	1.16	1.07	1.35		
95	0.17	0.19	0.19	0.22	0.21	0.22	0.20	0.18	0.17	0.16	0.15	0.14	0.11	0.09	0.08	0.07	0.06		
100	0.00	0.01	0.00	0.01	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
105	0.00	0.02	0.00	0.02	0.00	0.01	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
110	0.00	0.01	0.00	0.01	0.00	0.01	0.00	0.02	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
115	0.00	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.00	0.01	0.01	0.01	0.01	0.00	0.01	0.01	0.01		
120	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01		
125	0.04	0.02	0.02	0.01	0.01	0.01	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.05	0.01	0.02		
130	0.01	0.03	0.01	0.01	0.01	0.01	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02		
135	0.01	0.02	0.01	0.02	0.14	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02		
140	0.02	0.02	0.03	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02		
145	0.02	0.01	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.03	0.01		
150	0.03	0.11	0.08	0.01	0.01	0.01	0.02	0.02	0.01	0.07	0.01	0.00	0.01	0.01	0.01	0.01	0.01		
155	0.03	0.10	0.05	0.18	0.11	0.09	0.05	0.05	0.02	0.01	0.00	0.00	0.00	0.01	0.01	0.01	0.01		
160	0.01	0.00	0.02	0.03	0.03	0.02	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01		
165	0.00	0.01	0.01	0.01	0.01	0.01	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.01		
170	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	0.00		
175	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	0.00		
180	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	0.00		

STC (Dongguan) Company Limited

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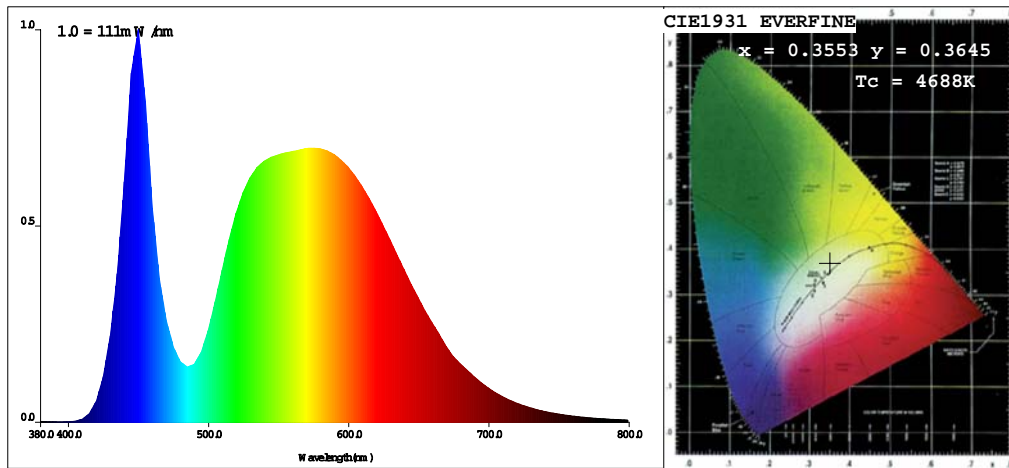
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TEST DATA

Light Source Test Report



CIE Color Parameters:

Chromaticity Coordinate: $x=0.3553$ $y=0.3645$ $u=0.2133$ $v=0.3282$ ($duv=2.45e-003$)

CCT: $T_c = 4688K$ Prcp WaveL: $\lambda_d = 573.8nm$ Purity=16.0%

Peak WaveL: $\lambda_p = 450nm$ Half Width: $\Delta\lambda_p = 23.7nm$ Ratio: R=15.5% G=81.5% B=3.0%

Average Wave: 560nm

Rendering Index: $R_a = 75.3$

R1 =74 R2 =80 R3 =83 R4 =76 R5 =73 R6 =71 R7 =85 R8 =63

R9 =-9 R10=50 R11=72 R12=42 R13=74 R14=90 R15=69

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Product Photographs



******* End of Test Report *******

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