



IES LM-79-19

MEASUREMENT AND TEST REPORT

For

GREEN CREATIVE LTD

Room 3603, Level 36, Tower 1, Enterprise Square Five, 38 Wang Chiu Road, Kowloon Bay, KL, Hong Kong

Test Model:

PXCYL4/SM/LES9027/KDIM120V/WD/WH/WH

Report Type:	Electrical and Photometric tests including: Luminous Flux, Luminous Intensity Distribution
Reviewed By:	Hexy He <i>Hexy He</i>
Report Number:	KS2210917-48735E-10-3
Test Date:	2021-10-11
Report Date:	2021-11-19
Approved by:	Blake Zhang / EE Engineer
Prepared By:	Bay Area Compliance Laboratories Corp. (Dongguan). No.12, Pulong East 1 st Road, Tangxia Town, Dongguan, Guangdong, China. Tel: +86-0769-86858888 Fax: +86-0769-86858588

1. Product Description

General Information:

One test sample was in good condition and received on 2021-09-17, and used for testing.

Model Tested: PXCYL4/SM/LES9027/KDIM120V/WD/WH/WH
 Manufacturer: GREEN CREATIVE LTD
 Brand Name: GREEN CREATIVE
 Product Designation: LED Surface Downlight
 Burning Time Before Test: 0hour(For New Products)

#Rated Values:

Rated Voltage/Frequency: 120 V AC 60Hz
 Rated Power: 13W
 Nominal CCT: 2700K
 Nominal Lumen Output: 875lm

2. Standards Used

- ANSI/IES LM-79-19: Approved method :Optical and Electrical Measurements of Solid-State Lighting Products

3. Description of Test Equipment

Device	Manufacture	Model No	Serial No	Calibration date	Calibration due date
AC POWER SUPPLY	EVERFINE	VPS1030 PWM	1012017	2021-01-04	2022-01-03
Digital CC&CV DC Power Supply	EVERFINE	WY12010	1009009	2021-01-04	2022-01-03
Digital power meter	YOKOGAWA	WT-210	91j926132	2021-01-04	2022-01-03
full-field speed goniophotometer	EVERFINE	GO-R5000	YG108492N10120001	2021-03-12	2022-03-11
wireless remote thermohygrometer	N/A	433MHz	N/A	2021-04-27	2022-04-26
Standard Light Source	EVERFINE	D908	1012003	2020-10-20	2021-10-19

Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attested that all calibration has been performed using suitable standards traceable to National Primary Standards and International System of Units (SI).

4. Test Method

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°C±1.2°C during measurement. And relative humidity is maintained between 10% and 65%. The air flow around the SSL product is less than 0.2m/s.

Goniophotometer System

The goniophotometer system is calibrated by standard light source before measurement.

Type C goniophotometer was used for measuring total luminous flux, luminous intensity distribution, and color spatial uniformity. The product was operated in its intended orientation in application and was recorded in this report. For luminous intensity distribution, The vertical angle (γ) test intervals were set no more than 2.5 degree ,The horizontal

angle (C plane) test intervals were set no more than 22.5 degree. For color spatial uniformity, The vertical angle (γ) test intervals were set no more than 90 degree ,The horizontal angle (C plane) test intervals were set no more than 10 degree

The uncertainty of the luminous intensity is $U=2.00\%$ ($K=2$), at the 95% confidence level.

5. Test Result

[Goniophotometer System]

Total operating time for luminous intensity distribution: **1.5 hour**

Test orientation: **Downward**

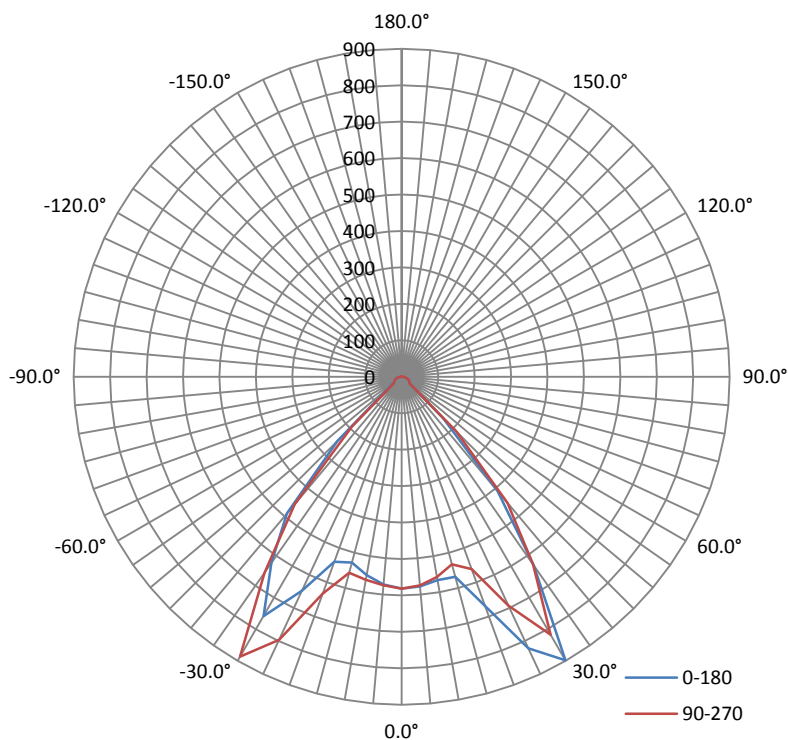
Electrical Measurement

Input Voltage (V)	Frequency (Hz)	Input Current (A)	Power (W)	Power Factor
120.1	60	0.1044	12.21	0.9739

Photometric Measurement

Luminous Flux (lm)	Efficacy (lm/W)	I _{max} (cd)	S/MH (C0/180)	S/MH (C90/270)
1189.32	97.43	951.1	1.25	1.28

Luminous Intensity Distribution



	C0/180	C45/225	C90/270	C135/315	AVG.
Beam Angle (50% I _{max}):	86.7	87.0	86.7	86.6	86.8
Field Angle (10% I _{max}):	96.4	95.6	96.5	96.2	96.2

Luminous Intensity (cd) Distribution Data

C y	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°
0°	582	582	582	582	582	582	582	582
1°	580	580	581	581	582	582	582	582
2°	581	580	580	580	581	582	581	582
3°	578	576	578	577	579	580	581	582
4°	576	575	576	576	577	578	579	579
5°	572	571	573	573	574	577	578	579
6°	570	568	570	571	574	576	577	578
7°	566	564	566	567	571	574	576	578
8°	562	561	563	565	570	573	574	574
9°	557	556	560	563	567	571	572	573
10°	553	553	555	560	566	568	568	569
11°	548	547	552	556	561	566	565	566
12°	544	542	547	552	558	563	565	565
13°	537	536	543	547	554	564	569	568
14°	533	532	539	545	554	566	573	570
15°	528	529	536	544	557	571	579	576
16°	527	528	536	545	560	578	587	583
17°	526	527	538	549	569	593	605	599
18°	527	529	542	559	586	612	631	625
19°	530	532	550	574	608	644	665	658
20°	540	544	564	597	633	678	698	690
21°	557	560	582	623	661	710	730	725
22°	578	580	604	650	689	740	763	758
23°	600	601	629	676	719	777	806	791
24°	624	626	658	705	752	814	840	818
25°	648	650	686	732	797	856	878	849
26°	675	677	714	759	829	888	907	878
27°	699	701	737	784	856	915	930	906
28°	720	724	761	808	876	931	942	926
29°	740	743	780	824	886	938	950	939
30°	758	761	794	834	887	938	951	939
31°	770	768	796	841	887	936	941	928
32°	771	765	790	824	857	889	883	878
33°	734	721	739	762	786	808	799	790
34°	675	664	679	695	709	726	717	707
35°	624	622	639	652	657	667	659	648
36°	603	606	621	627	629	634	623	611
37°	582	584	599	597	600	600	584	566
38°	558	557	569	565	563	555	536	519
39°	527	523	531	526	517	504	481	472
40°	490	483	481	474	457	442	427	422
41°	442	437	427	417	402	389	374	376
42°	390	385	380	366	353	338	328	327
43°	347	339	333	320	303	288	277	279
44°	304	294	287	272	251	233	221	226
45°	249	236	228	211	192	174	163	173
46°	186	173	165	150	135	120	112	125
47°	128	116	112	105	92	82	75	80
48°	80	69	64	54	71	64	59	62

Luminous Intensity (cd) Distribution Data

C y	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°
49°	62	55	51	40	49	46	43	45
50°	45	41	39	27	28	28	28	28
51°	27	27	27	26	27	27	27	27
52°	26	26	26	26	26	26	26	27
53°	26	26	26	26	26	26	26	26
54°	26	25	25	25	25	26	26	26
55°	25	25	25	25	25	25	25	26
56°	25	25	25	25	25	25	25	25
57°	25	24	24	24	24	25	25	25
58°	24	24	24	24	24	24	24	24
59°	24	24	23	23	23	24	24	24
60°	23	23	23	23	23	23	23	23
61°	23	23	22	22	23	23	23	23
62°	22	22	22	22	22	22	22	22
63°	22	22	21	21	21	22	22	22
64°	21	21	21	21	21	21	21	21
65°	21	20	20	20	20	21	21	21
66°	20	20	20	20	20	20	20	20
67°	20	19	19	19	19	19	19	20
68°	19	19	19	19	19	19	19	19
69°	18	18	18	18	18	18	18	18
70°	18	17	17	17	17	17	18	18
71°	17	17	17	17	17	17	17	17
72°	16	16	16	16	16	16	16	16
73°	16	15	15	15	15	15	15	16
74°	15	15	15	14	14	15	15	15
75°	14	14	14	14	14	14	14	14
76°	13	13	13	13	13	13	13	13
77°	12	12	12	12	12	12	12	12
78°	11	11	11	11	11	11	11	11
79°	10	10	10	10	10	10	10	10
80°	9	9	9	9	9	9	9	9
81°	8	8	8	8	8	8	8	8
82°	7	7	7	7	7	6	6	6
83°	6	6	6	5	5	5	5	5
84°	5	4	4	4	4	4	4	4
85°	3	3	3	3	3	2	2	2
86°	2	2	2	2	1	1	1	1
87°	1	1	1	0	0	0	0	0
88°	0	0	0	0	0	0	0	0
89°	0	0	0	0	0	0	0	0
90°	0	0	0	0	0	0	0	0
91°	0	0	0	0	0	0	0	0
92°	0	0	0	0	0	0	0	0
93°	0	0	0	0	0	0	0	0
94°	0	0	0	0	0	0	0	0
95°	0	0	0	0	0	0	0	0
96°	0	0	0	0	0	0	0	0
97°	0	0	0	0	0	0	0	0

Luminous Intensity (cd) Distribution Data

C y	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°
98°	0	0	0	0	0	0	0	0
99°	0	0	0	0	0	0	0	0
100°	0	0	0	0	0	0	0	0
101°	0	0	0	0	0	0	0	0
102°	0	0	0	0	0	0	0	0
103°	0	0	0	0	0	0	0	0
104°	0	0	0	0	0	0	0	0
105°	0	0	0	0	0	0	0	0
106°	0	0	0	0	0	0	0	0
107°	0	0	0	0	0	0	0	0
108°	0	0	0	0	0	0	0	0
109°	0	0	0	0	0	0	0	0
110°	0	0	0	0	0	0	0	0
111°	0	0	0	0	0	0	0	0
112°	0	0	0	0	0	0	0	0
113°	0	0	0	0	0	0	0	0
114°	0	0	0	0	0	0	0	0
115°	0	0	0	0	0	0	0	0
116°	0	0	0	0	0	0	0	0
117°	0	0	0	0	0	0	0	0
118°	0	0	0	0	0	0	0	0
119°	0	0	0	0	0	0	0	0
120°	0	0	0	0	0	0	0	0
121°	0	0	0	0	0	0	0	0
122°	0	0	0	0	0	0	0	0
123°	0	0	0	0	0	0	0	0
124°	0	0	0	0	0	0	0	0
125°	0	0	0	0	0	0	0	0
126°	0	0	0	0	0	0	0	0
127°	0	0	0	0	0	0	0	0
128°	0	0	0	0	0	0	0	0
129°	0	0	0	0	0	0	0	0
130°	0	0	0	0	0	0	0	0
131°	0	0	0	0	0	0	0	0
132°	0	0	0	0	0	0	0	0
133°	0	0	0	0	0	0	0	0
134°	0	0	0	0	0	0	0	0
135°	1	1	1	0	0	0	0	0
136°	1	1	1	1	1	1	1	0
137°	1	1	1	1	1	1	1	1
138°	1	1	1	1	1	1	1	1
139°	1	1	1	1	1	1	1	1
140°	1	1	1	1	1	1	1	1
141°	1	1	1	1	1	1	1	1
142°	1	1	1	1	1	1	1	1
143°	1	1	1	1	1	1	1	1
144°	1	1	1	1	1	1	1	1
145°	1	1	1	1	1	1	1	1
146°	1	1	1	1	1	1	1	1

Luminous Intensity (cd) Distribution Data

C y	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°
147°	1	1	1	1	1	1	1	1
148°	1	1	1	1	1	1	1	1
149°	1	1	1	1	1	1	1	1
150°	1	1	1	1	1	1	1	1
151°	1	1	1	1	1	1	1	1
152°	1	1	1	1	1	1	1	1
153°	1	1	1	1	1	1	1	1
154°	1	1	1	1	1	1	1	1
155°	1	1	1	1	1	1	1	1
156°	1	1	1	1	1	1	1	1
157°	1	1	1	1	1	1	1	1
158°	1	1	1	1	1	1	1	1
159°	1	1	1	1	1	1	1	1
160°	1	1	1	1	1	1	1	1
161°	1	1	1	1	1	1	1	1
162°	1	1	1	1	1	1	1	1
163°	1	1	1	1	1	1	1	1
164°	1	1	1	1	1	1	1	1
165°	1	1	1	1	1	1	1	1
166°	1	1	1	1	1	1	1	1
167°	1	1	1	1	1	1	1	1
168°	1	1	1	1	1	1	1	1
169°	1	1	1	1	1	1	1	1
170°	1	1	1	1	1	1	1	1
171°	1	1	1	1	1	1	1	1
172°	1	1	1	1	1	1	1	1
173°	1	1	1	1	1	1	1	1
174°	1	1	1	1	1	1	1	1
175°	1	1	1	1	1	1	1	1
176°	1	1	1	1	1	1	1	1
177°	1	1	1	1	1	1	1	1
178°	1	1	1	1	1	1	1	1
179°	1	1	1	1	1	1	1	1
180°	1	1	1	1	1	1	1	1

Luminous Intensity (cd) Distribution Data (cont.)

C y	180°	202.5°	225°	247.5°	270°	292.5°	315°	337.5°
0°	582	582	582	582	582	582	582	582
1°	581	580	582	582	582	581	581	582
2°	581	580	581	580	581	580	580	580
3°	580	578	580	579	578	579	578	578
4°	579	578	579	578	577	577	576	574
5°	577	576	577	575	575	573	574	573
6°	578	576	576	573	573	571	570	570
7°	575	574	572	570	569	568	566	566
8°	573	572	570	569	565	565	562	562
9°	570	567	566	564	561	559	559	558
10°	567	565	563	559	558	556	555	553
11°	562	561	558	554	552	551	549	548
12°	562	558	554	550	548	545	543	541
13°	564	553	550	544	542	539	537	536
14°	567	559	550	542	537	534	531	532
15°	568	561	549	540	533	529	527	527
16°	576	566	551	539	531	526	524	525
17°	589	575	554	538	530	526	522	524
18°	613	596	570	545	532	528	524	525
19°	643	620	592	558	542	536	531	531
20°	670	647	617	582	562	551	545	543
21°	700	669	640	608	587	573	568	563
22°	729	698	667	635	614	597	593	586
23°	761	726	689	660	638	619	616	608
24°	792	760	720	693	664	643	639	632
25°	822	795	755	724	693	673	667	660
26°	849	825	788	756	727	703	694	688
27°	872	846	813	781	758	735	722	714
28°	885	863	833	807	785	768	752	737
29°	897	871	845	821	803	787	773	756
30°	899	878	859	831	817	802	786	772
31°	886	876	861	833	818	806	796	780
32°	831	832	828	813	803	790	782	774
33°	751	754	753	745	742	730	727	723
34°	675	688	688	679	676	671	668	663
35°	632	645	645	635	628	621	620	615
36°	598	613	614	609	603	598	599	595
37°	558	574	577	575	575	569	573	570
38°	511	526	535	535	543	539	543	541
39°	459	476	488	492	502	506	508	507
40°	409	428	436	441	452	461	465	466
41°	365	377	389	393	399	403	418	414
42°	313	329	344	350	356	359	368	368
43°	261	278	295	302	311	318	322	326
44°	207	221	239	252	268	276	283	286
45°	160	169	185	199	211	221	228	230
46°	112	118	131	145	157	168	173	175
47°	65	67	77	91	103	114	118	120
48°	29	31	36	46	55	61	63	66

Luminous Intensity (cd) Distribution Data (cont.)

C y	180°	202.5°	225°	247.5°	270°	292.5°	315°	337.5°
49°	28	28	28	29	29	29	29	29
50°	27	27	28	28	28	28	28	28
51°	27	27	27	27	28	28	28	27
52°	26	26	27	27	27	27	27	27
53°	26	26	26	27	27	27	27	26
54°	26	26	26	26	26	26	26	26
55°	25	25	26	26	26	26	26	26
56°	25	25	25	25	26	26	26	25
57°	25	25	25	25	25	25	25	25
58°	24	24	24	25	25	25	25	25
59°	24	24	24	24	24	24	24	24
60°	23	23	24	24	24	24	24	24
61°	23	23	23	23	23	23	23	23
62°	22	22	22	23	23	23	23	23
63°	22	22	22	22	22	22	22	22
64°	21	21	21	22	22	22	22	22
65°	21	21	21	21	21	21	21	21
66°	20	20	20	20	21	21	21	20
67°	19	20	20	20	20	20	20	20
68°	19	19	19	19	19	19	19	19
69°	18	18	18	19	19	19	19	19
70°	18	18	18	18	18	18	18	18
71°	17	17	17	17	17	17	17	17
72°	16	16	16	16	17	17	17	17
73°	15	15	16	16	16	16	16	16
74°	14	15	15	15	15	15	15	15
75°	14	14	14	14	14	14	14	14
76°	13	13	13	13	13	13	13	13
77°	12	12	12	12	12	12	12	12
78°	11	11	11	11	11	11	11	11
79°	10	10	10	10	10	10	10	10
80°	8	8	9	9	9	9	9	9
81°	7	7	7	8	8	8	8	8
82°	6	6	6	6	7	7	7	7
83°	5	5	5	5	5	5	6	6
84°	3	3	3	4	4	4	4	4
85°	2	2	2	2	3	3	3	3
86°	1	1	1	1	1	1	2	2
87°	0	0	0	0	0	0	1	1
88°	0	0	0	0	0	0	0	0
89°	0	0	0	0	0	0	0	0
90°	0	0	0	0	0	0	0	0
91°	0	0	0	0	0	0	0	0
92°	0	0	0	0	0	0	0	0
93°	0	0	0	0	0	0	0	0
94°	0	0	0	0	0	0	0	0
95°	0	0	0	0	0	0	0	0
96°	0	0	0	0	0	0	0	0
97°	0	0	0	0	0	0	0	0

Luminous Intensity (cd) Distribution Data (cont.)

C y	180°	202.5°	225°	247.5°	270°	292.5°	315°	337.5°
98°	0	0	0	0	0	0	0	0
99°	0	0	0	0	0	0	0	0
100°	0	0	0	0	0	0	0	0
101°	0	0	0	0	0	0	0	0
102°	0	0	0	0	0	0	0	0
103°	0	0	0	0	0	0	0	0
104°	0	0	0	0	0	0	0	0
105°	0	0	0	0	0	0	0	0
106°	0	0	0	0	0	0	0	0
107°	0	0	0	0	0	0	0	0
108°	0	0	0	0	0	0	0	0
109°	0	0	0	0	0	0	0	0
110°	0	0	0	0	0	0	0	0
111°	0	0	0	0	0	0	0	0
112°	0	0	0	0	0	0	0	0
113°	0	0	0	0	0	0	0	0
114°	0	0	0	0	0	0	0	0
115°	0	0	0	0	0	0	0	0
116°	0	0	0	0	0	0	0	0
117°	0	0	0	0	0	0	0	0
118°	0	0	0	0	0	0	0	0
119°	0	0	0	0	0	0	0	0
120°	0	0	0	0	0	0	0	0
121°	0	0	0	0	0	0	0	0
122°	0	0	0	0	0	0	0	0
123°	0	0	0	0	0	0	0	0
124°	0	0	0	0	0	0	0	0
125°	0	0	0	0	0	0	0	0
126°	0	0	0	0	0	0	0	0
127°	0	0	0	0	0	0	0	0
128°	0	0	0	0	0	0	0	0
129°	0	0	0	0	0	0	0	0
130°	0	0	0	0	0	0	0	0
131°	0	0	0	0	0	0	0	0
132°	0	0	0	0	0	0	0	0
133°	0	0	0	0	0	0	0	0
134°	0	0	0	0	0	0	0	0
135°	0	0	0	0	0	0	0	0
136°	0	0	0	0	0	0	0	0
137°	0	0	0	0	0	0	0	0
138°	0	0	0	0	0	0	0	0
139°	0	0	0	0	0	0	0	0
140°	0	0	0	0	0	0	0	0
141°	0	0	0	0	0	0	0	0
142°	0	0	0	0	0	0	0	0
143°	0	0	0	0	0	0	0	0
144°	0	0	0	0	0	0	0	0
145°	0	0	0	0	0	0	0	0
146°	0	0	0	0	0	0	0	0

Luminous Intensity (cd) Distribution Data (cont.)

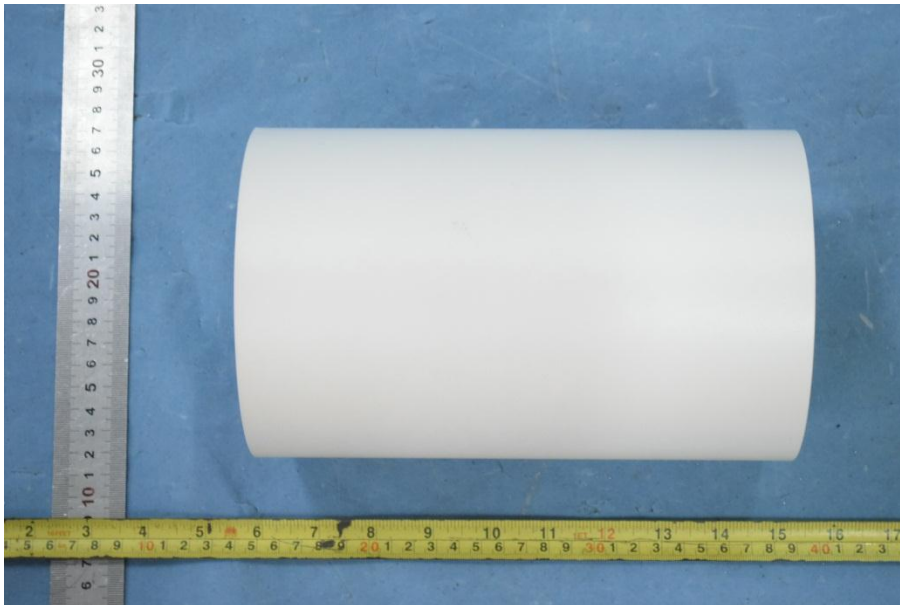
C y	180°	202.5°	225°	247.5°	270°	292.5°	315°	337.5°
147°	0	0	0	0	0	0	0	0
148°	0	0	0	0	0	0	0	0
149°	0	0	0	0	0	0	0	0
150°	0	0	0	0	0	0	0	0
151°	0	0	0	0	0	0	0	0
152°	0	0	0	1	1	1	1	0
153°	1	1	1	1	1	1	1	1
154°	1	1	1	1	1	1	1	1
155°	1	1	1	1	1	1	1	1
156°	1	1	1	1	1	1	1	1
157°	1	1	1	1	1	1	1	1
158°	1	1	1	1	1	1	1	1
159°	1	1	1	1	1	1	1	1
160°	1	1	1	1	1	1	1	1
161°	1	1	1	1	1	1	1	1
162°	1	1	1	1	1	1	1	1
163°	1	1	1	1	1	1	1	1
164°	1	1	1	1	1	1	1	1
165°	1	1	1	1	1	1	1	1
166°	1	1	1	1	1	1	1	1
167°	1	1	1	1	1	1	1	1
168°	1	1	1	1	1	1	1	1
169°	1	1	1	1	1	1	1	1
170°	1	1	1	1	1	1	1	1
171°	1	1	1	1	1	1	1	1
172°	1	1	1	1	1	1	1	1
173°	1	1	1	1	1	1	1	1
174°	1	1	1	1	1	1	1	1
175°	1	1	1	1	1	1	1	1
176°	1	1	1	1	1	1	1	1
177°	1	1	1	1	1	1	1	1
178°	1	1	1	1	1	1	1	1
179°	1	1	1	1	1	1	1	1
180°	1	1	1	1	1	1	1	1

Zonal Lumen Density Measurement

Deg	Flux (lm)	%
0-5	13.8	1.16
5-10	40.6	3.42
10-15	65.4	5.50
15-20	93.4	7.85
20-25	141.0	11.86
25-30	203.7	17.13
30-35	225.8	18.98
35-40	185.1	15.56
40-45	121.2	10.19
45-50	36.3	3.05
50-55	11.6	0.98
55-60	11.3	0.95
60-65	10.7	0.90
65-70	9.7	0.82
70-75	8.3	0.70
75-80	6.1	0.51
80-85	3.2	0.27
85-90	0.3	0.03
90-95	0.0	0.00
95-100	0.0	0.00
100-105	0.0	0.00
105-110	0.0	0.00
110-115	0.0	0.00
115-120	0.0	0.01
120-125	0.1	0.00
125-130	0.1	0.01
130-135	0.1	0.01
135-140	0.1	0.01
140-145	0.2	0.02
145-150	0.2	0.01
150-155	0.2	0.02
155-160	0.2	0.02
160-165	0.2	0.01
165-170	0.1	0.01
170-175	0.1	0.01
175-180	0.0	0.00

Deg	Flux (lm)	%
0-5	13.8	1.16
0-10	54.4	4.58
0-15	119.8	10.08
0-20	213.2	17.93
0-25	354.3	29.79
0-30	558.0	46.92
0-35	783.8	65.90
0-40	968.8	81.46
0-45	1090.0	91.65
0-50	1126.3	94.70
0-55	1137.9	95.68
0-60	1149.2	96.63
0-65	1160.0	97.53
0-70	1169.7	98.35
0-75	1178.0	99.05
0-80	1184.1	99.56
0-85	1187.3	99.83
0-90	1187.7	99.86
0-95	1187.7	99.86
0-100	1187.7	99.86
0-105	1187.7	99.86
0-110	1187.7	99.86
0-115	1187.7	99.86
0-120	1187.7	99.87
0-125	1187.8	99.87
0-130	1187.9	99.88
0-135	1188.0	99.89
0-140	1188.1	99.90
0-145	1188.3	99.92
0-150	1188.5	99.93
0-155	1188.7	99.95
0-160	1188.9	99.97
0-165	1189.1	99.98
0-170	1189.2	99.99
0-175	1189.3	100.00
0-180	1189.3	100.00

6. Product Photo



Directions

1. The information marked "superscript #" is provided by the applicant, the laboratory is not responsible for its authenticity and this information can affect the validity of the result in the test report.
2. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.
3. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.
4. The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval.
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*****END OF REPORT*****