

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: PORTFOLIO

Report Number: P766378

Luminaire Tested: LD6D45BD010-EU6DR3040509024-6LBS1LI

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P766378  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-16)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/2/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LD6D45BD010-EU6DR3040509024-6LBS1LI  
Description: 6 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4535.2 lumens  
Efficiency: N/A  
Efficacy: 117.2 lumens/watt  
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49  
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')  
CIE Type: Direct

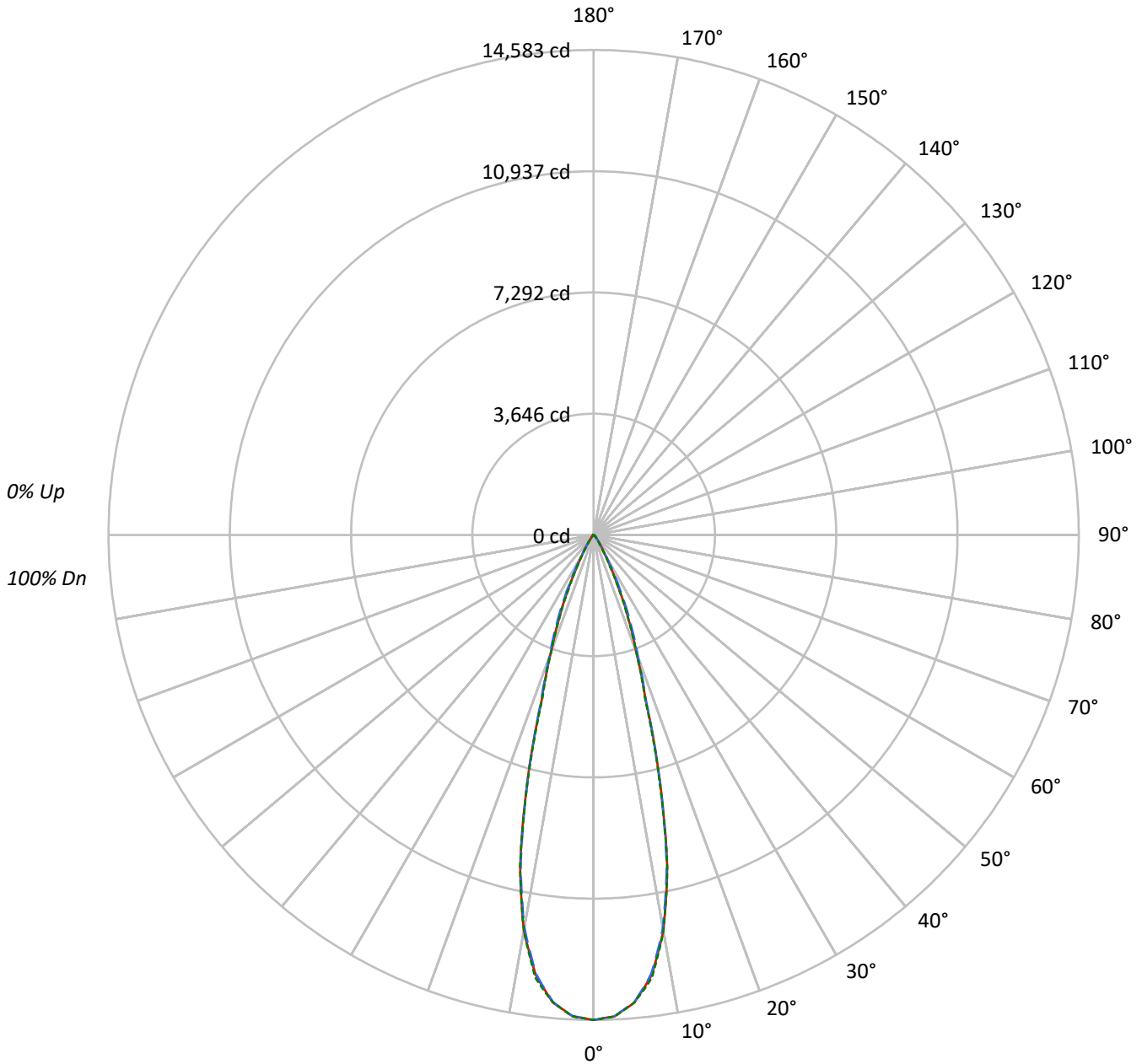
Input Watts (W): 38.7  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



Downlight

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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0													
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100						100													
1	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96						96													
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92						92													
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89						89													
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85						85													
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82						82													
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79						79													
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77						77													
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74						74													
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72						72													
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69						69													

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1116240	1116240	1116240
5°	1084199	1082931	1084253
10°	939079	932457	938854
15°	612703	609415	606348
20°	304669	316097	304262
25°	153474	173059	150324
30°	61445	66951	53535
35°	28500	27294	22884
40°	12300	13669	11591
45°	8682	10771	8757
50°	2989	7847	3156
55°	1721	3243	1815
60°	1209	1424	1209
65°	779	779	779
70°	470	313	470
75°	0	207	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 10771 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1282.4	28.3
10°-20°	2065.3	45.5
20°-30°	892.4	19.7
30°-40°	203.4	4.5
40°-50°	69.8	1.5
50°-60°	17.1	0.4
60°-70°	4.4	0.1
70°-80°	0.5	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	4240.1	93.5
0°-40°	4443.5	98.0
0°-60°	4530.4	99.9
0°-90°	4535.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4535.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	14583	14583	14583	14583	14583	
5°	14111	14097	14094	14123	14111	1283
15°	7732	7639	7690	7665	7652	2070
25°	1817	1886	2049	1838	1780	870
35°	305	312	292	290	245	207
45°	80	100	100	100	81	57
55°	13	14	24	14	14	13
65°	4	4	4	4	4	4
75°	0	0	1	0	0	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	14583.1	14583.1	14583.1	14583.1	14583.1
2.5°	14486.4	14476.4	14482.2	14489.3	14492.2
5°	14110.6	14097.0	14094.1	14123.4	14111.3
7.5°	13352.3	13333.0	13303.6	13370.2	13432.5
10°	12082.2	12060.7	11997.0	12028.5	12079.3
12.5°	10207.0	10137.6	10136.1	10236.4	10222.8
15°	7731.9	7638.8	7690.4	7665.3	7651.7
17.5°	5199.5	5163.7	5232.4	5211.6	5122.1
20°	3740.3	3749.6	3880.6	3814.7	3735.3
22.5°	2729.3	2763.0	2918.3	2748.7	2686.4
25°	1817.2	1885.9	2049.1	1837.9	1779.9
27.5°	1117.6	1149.1	1314.5	1103.3	1071.8
30°	695.2	679.5	757.5	650.1	605.7
32.5°	456.1	436.0	461.1	413.8	378.0
35°	305.0	311.5	292.1	290.0	244.9
37.5°	190.5	219.1	193.3	206.2	157.5
40°	123.1	158.9	136.8	151.1	116.0
42.5°	101.0	122.4	112.4	119.6	103.1
45°	80.2	99.5	99.5	99.5	80.9
47.5°	44.4	66.6	85.2	68.0	47.3
50°	25.1	33.7	65.9	35.1	26.5
52.5°	17.2	19.3	45.1	20.0	17.9
55°	12.9	13.6	24.3	14.3	13.6
57.5°	10.0	10.7	12.9	10.7	10.0
60°	7.9	7.9	9.3	8.6	7.9
62.5°	5.7	5.7	6.4	5.7	5.7
65°	4.3	4.3	4.3	4.3	4.3
67.5°	2.1	2.9	2.9	2.9	2.9
70°	2.1	1.4	1.4	1.4	2.1
72.5°	1.4	0.7	0.7	0.7	0.7
75°	0.0	0.0	0.7	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



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Scaled Data Report







— 0°-180°    - - 45°-225°    - - - - 90°-270°

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