

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



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: P793271

Luminaire Tested: LER6D50D010-EC6DR3040509035-6LBDP1B

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P793271  
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: LER6D50D010-EC6DR3040509035-6LBDDP1B  
Description: 6 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4575.4 lumens  
Efficiency: N/A  
Efficacy: 97.3 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): 47  
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

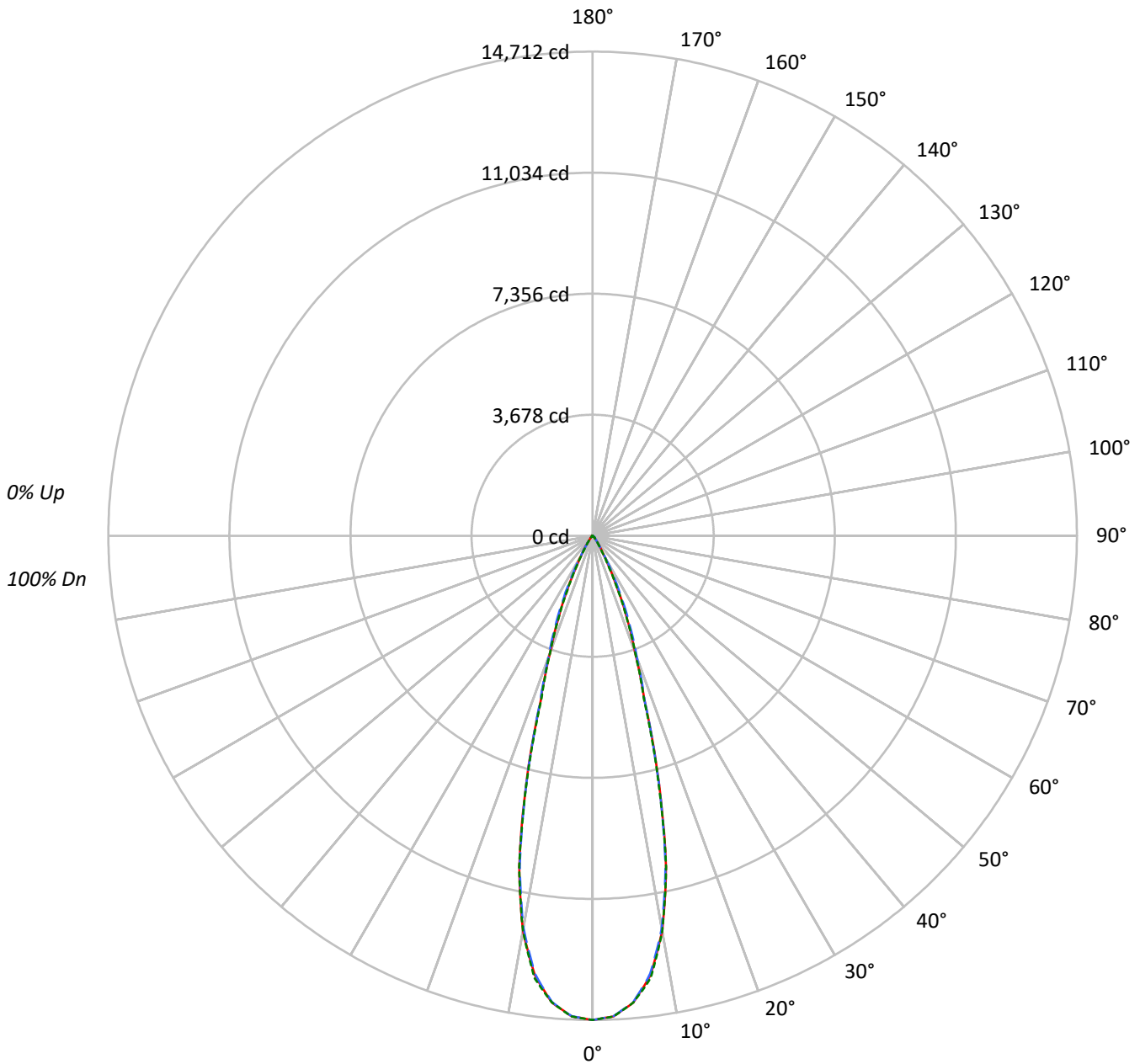


Downlight

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

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

	0°	45°	90°
0°	1126114	1126114	1126114
5°	1093788	1092513	1093842
10°	947388	940704	947163
15°	618123	614803	611713
20°	307365	318891	306950
25°	154825	174596	151658
30°	61993	67544	54012
35°	28752	27537	23080
40°	12410	13789	11691
45°	8757	10868	8833
50°	3013	7919	3179
55°	1735	3283	1828
60°	1209	1439	1209
65°	779	779	779
70°	492	313	492
75°	0	207	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 10868 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1293.7	28.3
10°-20°	2083.5	45.5
20°-30°	900.4	19.7
30°-40°	205.2	4.5
40°-50°	70.5	1.5
50°-60°	17.2	0.4
60°-70°	4.5	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°	4277.6	93.5
0°-40°	4482.8	98.0
0°-60°	4570.5	99.9
0°-90°	4575.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4575.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	14712	14712	14712	14712	14712	
5°	14235	14222	14219	14248	14236	1295
15°	7800	7706	7758	7733	7719	2089
25°	1833	1903	2067	1854	1796	878
35°	308	314	295	292	247	209
45°	81	100	100	100	82	57
55°	13	14	25	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°	14712.1	14712.1	14712.1	14712.1	14712.1
2.5°	14614.6	14604.5	14610.3	14617.5	14620.4
5°	14235.4	14221.7	14218.8	14248.4	14236.1
7.5°	13470.5	13451.0	13421.3	13488.5	13551.4
10°	12189.1	12167.4	12103.1	12134.9	12186.2
12.5°	10297.3	10227.3	10225.8	10326.9	10313.2
15°	7800.3	7706.4	7758.4	7733.1	7719.4
17.5°	5245.5	5209.3	5278.7	5257.7	5167.4
20°	3773.4	3782.8	3914.9	3848.5	3768.3
22.5°	2753.5	2787.4	2944.2	2773.0	2710.1
25°	1833.2	1902.6	2067.3	1854.2	1795.7
27.5°	1127.5	1159.3	1326.2	1113.1	1081.3
30°	701.4	685.5	764.2	655.9	611.1
32.5°	460.1	439.9	465.2	417.5	381.4
35°	307.7	314.2	294.7	292.5	247.0
37.5°	192.1	221.0	195.0	208.0	158.9
40°	124.2	160.4	138.0	152.4	117.0
42.5°	101.8	123.5	113.4	120.6	104.0
45°	80.9	100.4	100.4	100.4	81.6
47.5°	44.8	67.2	86.0	68.6	47.7
50°	25.3	33.9	66.5	35.4	26.7
52.5°	17.3	19.5	45.5	20.2	18.1
55°	13.0	13.7	24.6	14.4	13.7
57.5°	10.1	10.8	13.0	10.8	10.1
60°	7.9	7.9	9.4	8.7	7.9
62.5°	5.8	5.8	6.5	5.8	5.8
65°	4.3	4.3	4.3	4.3	4.3
67.5°	2.2	2.9	2.9	2.9	2.9
70°	2.2	1.4	1.4	1.4	2.2
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

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Scaled Data Report







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

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(END OF REPORT)