

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: P793290

Luminaire Tested: LER6D50D010-EC6DR3040509050-6LBDP1MW

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P793290  
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-EC6DR3040509050-6LBDP1MW  
Description: 6 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5344.5 lumens  
Efficiency: N/A  
Efficacy: 113.7 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

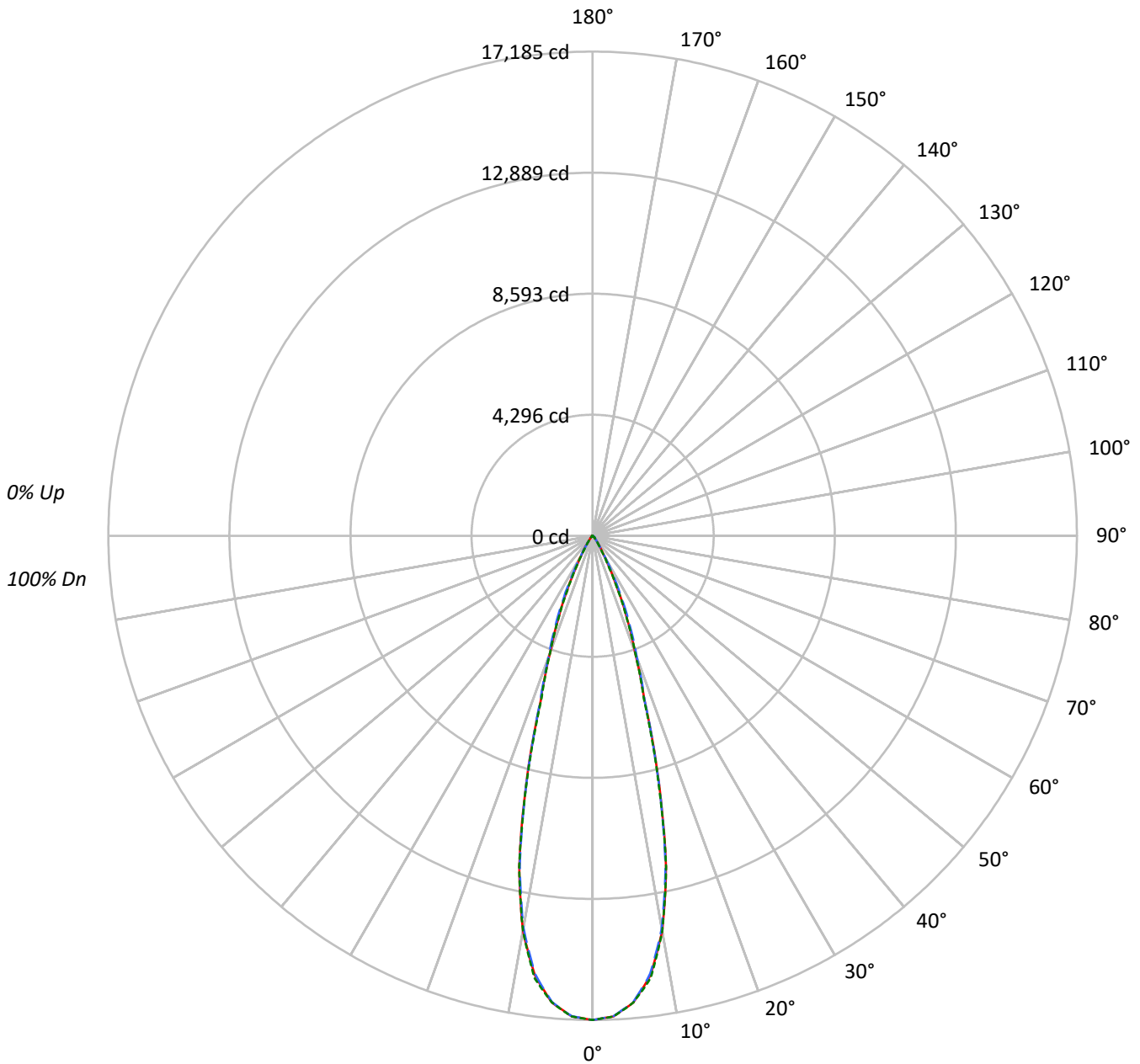


Downlight

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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					70					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								
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°	1315421	1315421	1315421
5°	1277656	1276165	1277718
10°	1106645	1098841	1106381
15°	722028	718153	714539
20°	359033	372505	358552
25°	180855	203945	177147
30°	72414	78901	63089
35°	33583	32163	26967
40°	14498	16107	13659
45°	10230	12698	10316
50°	3513	9241	3715
55°	2028	3830	2135
60°	1424	1684	1424
65°	924	924	924
70°	559	380	559
75°	0	237	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 12698 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1511.2	28.3
10°-20°	2433.8	45.5
20°-30°	1051.7	19.7
30°-40°	239.7	4.5
40°-50°	82.3	1.5
50°-60°	20.1	0.4
60°-70°	5.2	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°	4996.7	93.5
0°-40°	5236.4	98.0
0°-60°	5338.8	99.9
0°-90°	5344.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5344.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	17185	17185	17185	17185	17185	
5°	16628	16612	16609	16644	16629	1512
15°	9112	9002	9063	9033	9017	2440
25°	2141	2222	2415	2166	2098	1025
35°	359	367	344	342	289	244
45°	94	117	117	117	95	67
55°	15	16	29	17	16	15
65°	5	5	5	5	5	5
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°	17185.3	17185.3	17185.3	17185.3	17185.3
2.5°	17071.4	17059.5	17066.3	17074.7	17078.1
5°	16628.4	16612.4	16609.0	16643.6	16629.2
7.5°	15734.9	15712.1	15677.5	15756.0	15829.4
10°	14238.1	14212.8	14137.7	14174.8	14234.7
12.5°	12028.3	11946.5	11944.8	12062.9	12046.9
15°	9111.5	9001.8	9062.6	9033.1	9017.0
17.5°	6127.2	6085.0	6166.0	6141.6	6036.1
20°	4407.7	4418.7	4573.1	4495.4	4401.8
22.5°	3216.3	3256.0	3439.1	3239.1	3165.7
25°	2141.4	2222.4	2414.8	2165.9	2097.5
27.5°	1317.1	1354.2	1549.1	1300.2	1263.1
30°	819.3	800.7	892.7	766.1	713.8
32.5°	537.5	513.8	543.4	487.7	445.5
35°	359.4	367.0	344.2	341.7	288.6
37.5°	224.4	258.2	227.8	243.0	185.6
40°	145.1	187.3	161.2	178.0	136.7
42.5°	119.0	144.3	132.5	140.9	121.5
45°	94.5	117.3	117.3	117.3	95.3
47.5°	52.3	78.5	100.4	80.2	55.7
50°	29.5	39.7	77.6	41.3	31.2
52.5°	20.2	22.8	53.2	23.6	21.1
55°	15.2	16.0	28.7	16.9	16.0
57.5°	11.8	12.7	15.2	12.7	11.8
60°	9.3	9.3	11.0	10.1	9.3
62.5°	6.7	6.7	7.6	6.7	6.7
65°	5.1	5.1	5.1	5.1	5.1
67.5°	2.5	3.4	3.4	3.4	3.4
70°	2.5	1.7	1.7	1.7	2.5
72.5°	1.7	0.8	0.8	0.8	0.8
75°	0.0	0.0	0.8	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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(END OF REPORT)