

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: P793291

Luminaire Tested: LER6D50D010-EC6DR3040509050-6LBS1B

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P793291  
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-EC6DR3040509050-6LBS1B  
Description: 6 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5912.9 lumens  
Efficiency: N/A  
Efficacy: 125.8 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

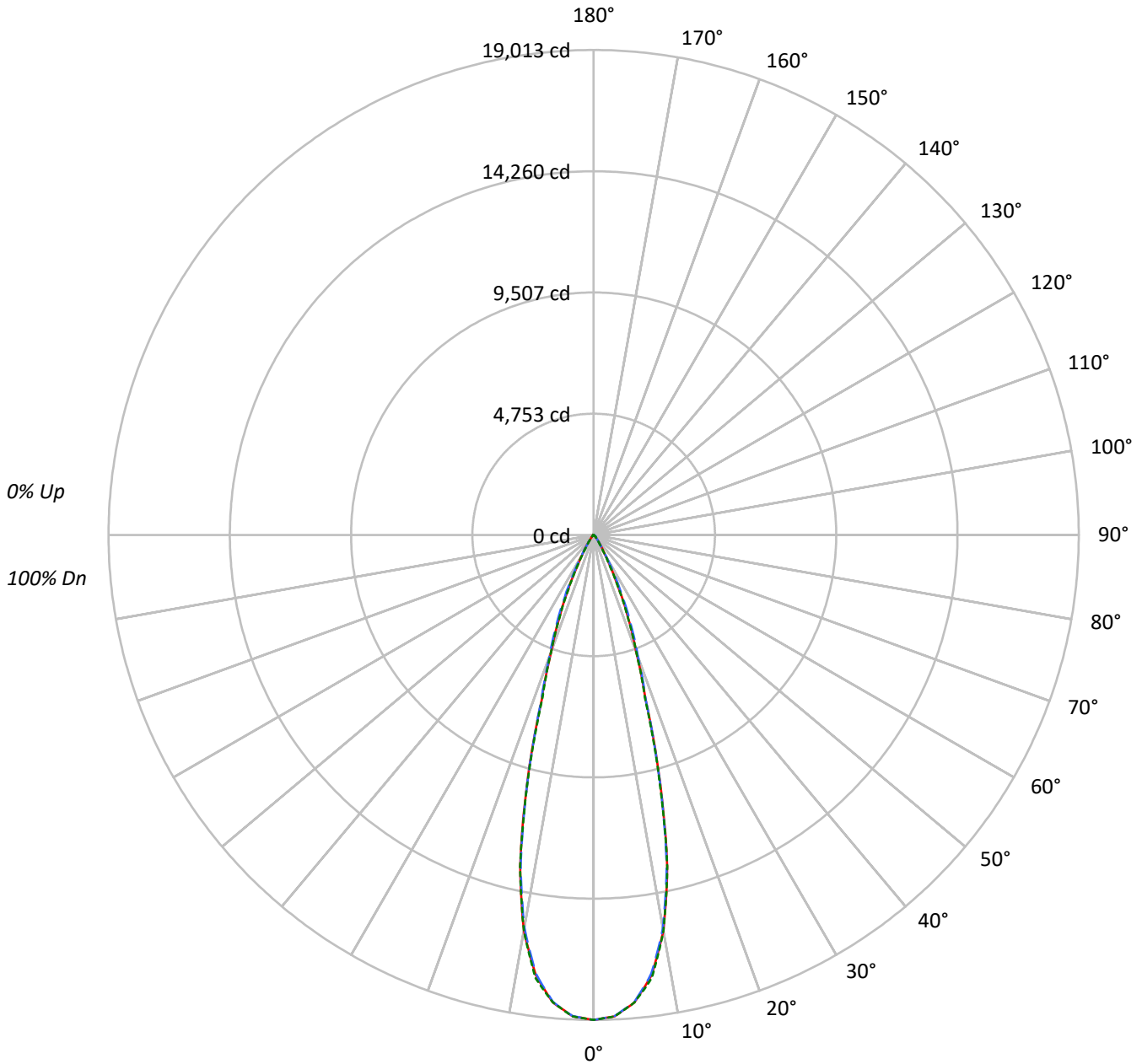


Downlight

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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°	1455312	1455312	1455312
5°	1413532	1411880	1413602
10°	1224335	1215700	1224047
15°	798815	794528	790534
20°	397211	412117	396682
25°	200085	225633	195989
30°	80112	87289	69797
35°	37162	35592	29827
40°	16047	17816	15108
45°	11312	14051	11420
50°	3894	10229	4108
55°	2242	4230	2362
60°	1577	1852	1577
65°	1014	1014	1014
70°	627	425	627
75°	0	266	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 14051 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1671.9	28.3
10°-20°	2692.6	45.5
20°-30°	1163.5	19.7
30°-40°	265.2	4.5
40°-50°	91.1	1.5
50°-60°	22.2	0.4
60°-70°	5.8	0.1
70°-80°	0.6	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°	5528.0	93.5
0°-40°	5793.2	98.0
0°-60°	5906.5	99.9
0°-90°	5912.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5912.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	19013	19013	19013	19013	19013	
5°	18397	18379	18375	18414	18398	1673
15°	10080	9959	10026	9994	9976	2699
25°	2369	2459	2672	2396	2321	1134
35°	398	406	381	378	319	270
45°	104	130	130	130	106	74
55°	17	18	32	19	18	16
65°	6	6	6	6	6	6
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°	19012.9	19012.9	19012.9	19012.9	19012.9
2.5°	18886.9	18873.8	18881.3	18890.6	18894.3
5°	18396.8	18379.1	18375.3	18413.6	18397.7
7.5°	17408.3	17383.1	17344.8	17431.6	17512.8
10°	15752.3	15724.3	15641.2	15682.3	15748.6
12.5°	13307.5	13217.0	13215.1	13345.8	13328.1
15°	10080.5	9959.2	10026.4	9993.7	9976.0
17.5°	6778.9	6732.2	6821.8	6794.7	6678.0
20°	4876.4	4888.6	5059.4	4973.5	4869.9
22.5°	3558.4	3602.3	3804.8	3583.6	3502.4
25°	2369.1	2458.8	2671.6	2396.2	2320.6
27.5°	1457.1	1498.2	1713.8	1438.5	1397.4
30°	906.4	885.9	987.6	847.6	789.7
32.5°	594.6	568.5	601.2	539.5	492.9
35°	397.7	406.1	380.9	378.1	319.2
37.5°	248.3	285.6	252.0	268.8	205.4
40°	160.6	207.2	178.3	197.0	151.2
42.5°	131.6	159.6	146.6	155.9	134.4
45°	104.5	129.8	129.8	129.8	105.5
47.5°	57.9	86.8	111.1	88.7	61.6
50°	32.7	43.9	85.9	45.7	34.5
52.5°	22.4	25.2	58.8	26.1	23.3
55°	16.8	17.7	31.7	18.7	17.7
57.5°	13.1	14.0	16.8	14.0	13.1
60°	10.3	10.3	12.1	11.2	10.3
62.5°	7.5	7.5	8.4	7.5	7.5
65°	5.6	5.6	5.6	5.6	5.6
67.5°	2.8	3.7	3.7	3.7	3.7
70°	2.8	1.9	1.9	1.9	2.8
72.5°	1.9	0.9	0.9	0.9	0.9
75°	0.0	0.0	0.9	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)