

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: P790794

Luminaire Tested: LER6D25D010-EC6DR3020359050-6LBDP1MW

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P790794  
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: LER6D25D010-EC6DR3020359050-6LBDDP1MW  
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: 4621.9 lumens  
Efficiency: N/A  
Efficacy: 184.1 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

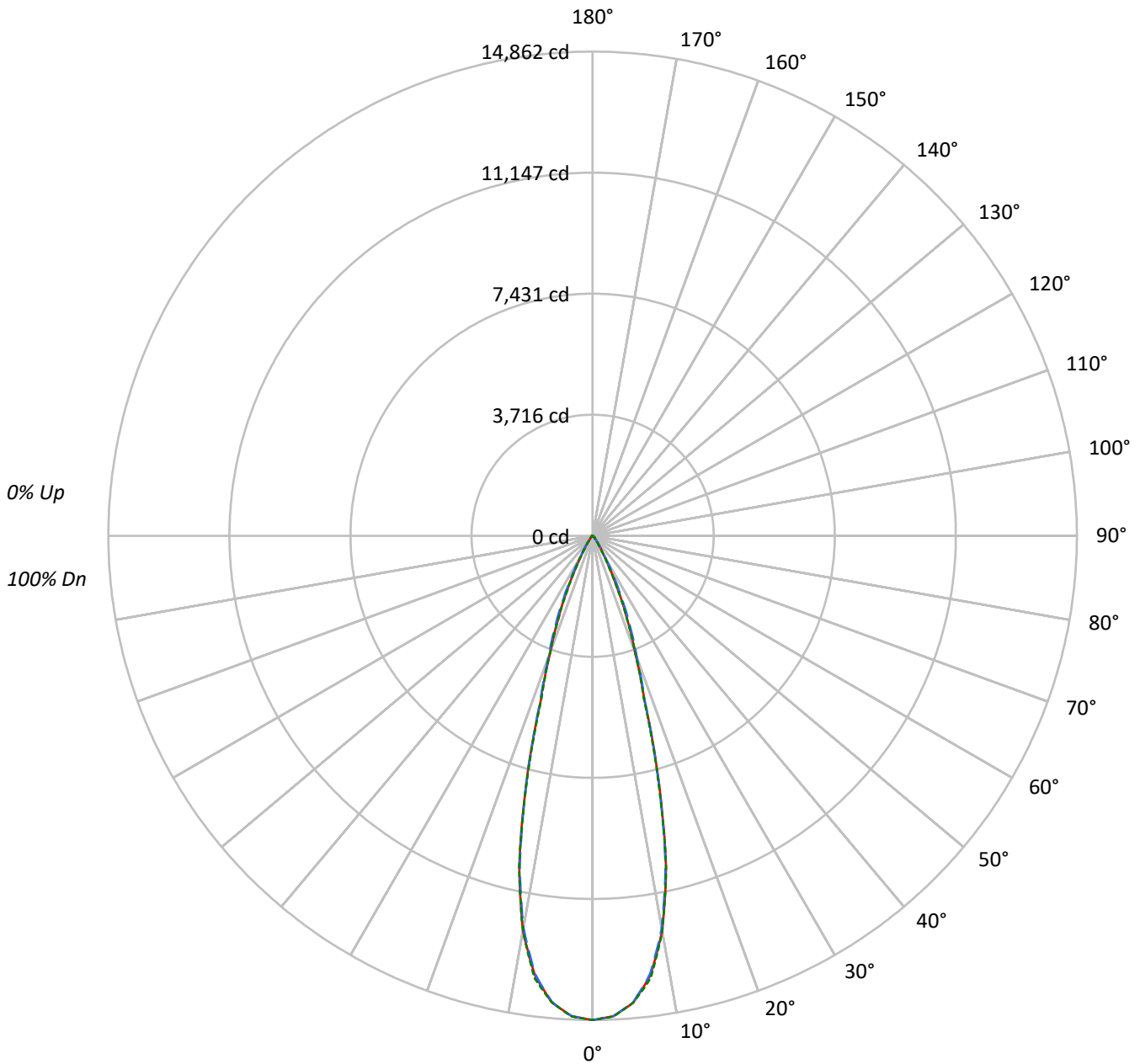
Input Watts (W): 25.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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°	1137557	1137557	1137557
5°	1104906	1103615	1104960
10°	957010	950264	956785
15°	624408	621048	617925
20°	310485	322133	310070
25°	156405	176370	153195
30°	62621	68233	54560
35°	29042	27818	23314
40°	12540	13929	11811
45°	8844	10976	8931
50°	3037	7990	3215
55°	1748	3310	1855
60°	1225	1454	1225
65°	797	797	797
70°	492	336	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: 10976 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1306.9	28.3
10°-20°	2104.7	45.5
20°-30°	909.5	19.7
30°-40°	207.3	4.5
40°-50°	71.2	1.5
50°-60°	17.4	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°	4321.1	93.5
0°-40°	4528.3	98.0
0°-60°	4616.9	99.9
0°-90°	4621.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4621.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	14862	14862	14862	14862	14862	
5°	14380	14366	14363	14393	14381	1308
15°	7880	7785	7837	7812	7798	2110
25°	1852	1922	2088	1873	1814	886
35°	311	317	298	296	250	211
45°	82	101	101	101	82	58
55°	13	14	25	15	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°	14861.6	14861.6	14861.6	14861.6	14861.6
2.5°	14763.1	14752.9	14758.7	14766.0	14769.0
5°	14380.1	14366.2	14363.3	14393.2	14380.8
7.5°	13607.4	13587.7	13557.7	13625.6	13689.1
10°	12312.9	12291.1	12226.1	12258.2	12310.0
12.5°	10402.0	10331.2	10329.7	10431.9	10418.0
15°	7879.6	7784.7	7837.2	7811.7	7797.8
17.5°	5298.8	5262.3	5332.3	5311.2	5220.0
20°	3811.7	3821.2	3954.7	3887.6	3806.6
22.5°	2781.4	2815.7	2974.1	2801.1	2737.7
25°	1851.9	1921.9	2088.3	1873.0	1813.9
27.5°	1139.0	1171.1	1339.6	1124.4	1092.3
30°	708.5	692.4	772.0	662.5	617.3
32.5°	464.8	444.4	469.9	421.7	385.3
35°	310.8	317.4	297.7	295.5	249.5
37.5°	194.1	223.3	197.0	210.1	160.5
40°	125.5	162.0	139.4	154.0	118.2
42.5°	102.9	124.8	114.6	121.9	105.1
45°	81.7	101.4	101.4	101.4	82.5
47.5°	45.2	67.9	86.8	69.3	48.2
50°	25.5	34.3	67.1	35.8	27.0
52.5°	17.5	19.7	46.0	20.4	18.2
55°	13.1	13.9	24.8	14.6	13.9
57.5°	10.2	10.9	13.1	10.9	10.2
60°	8.0	8.0	9.5	8.8	8.0
62.5°	5.8	5.8	6.6	5.8	5.8
65°	4.4	4.4	4.4	4.4	4.4
67.5°	2.2	2.9	2.9	2.9	2.9
70°	2.2	1.5	1.5	1.5	2.2
72.5°	1.5	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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