

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: P749156

Luminaire Tested: LD4D50D010-EU4DR3040509050-4LBDP1MW

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P749156  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-16)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/30/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LD4D50D010-EU4DR3040509050-4LBDP1MW  
Description: 4 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: 4491.2 lumens  
Efficiency: N/A  
Efficacy: 95.6 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

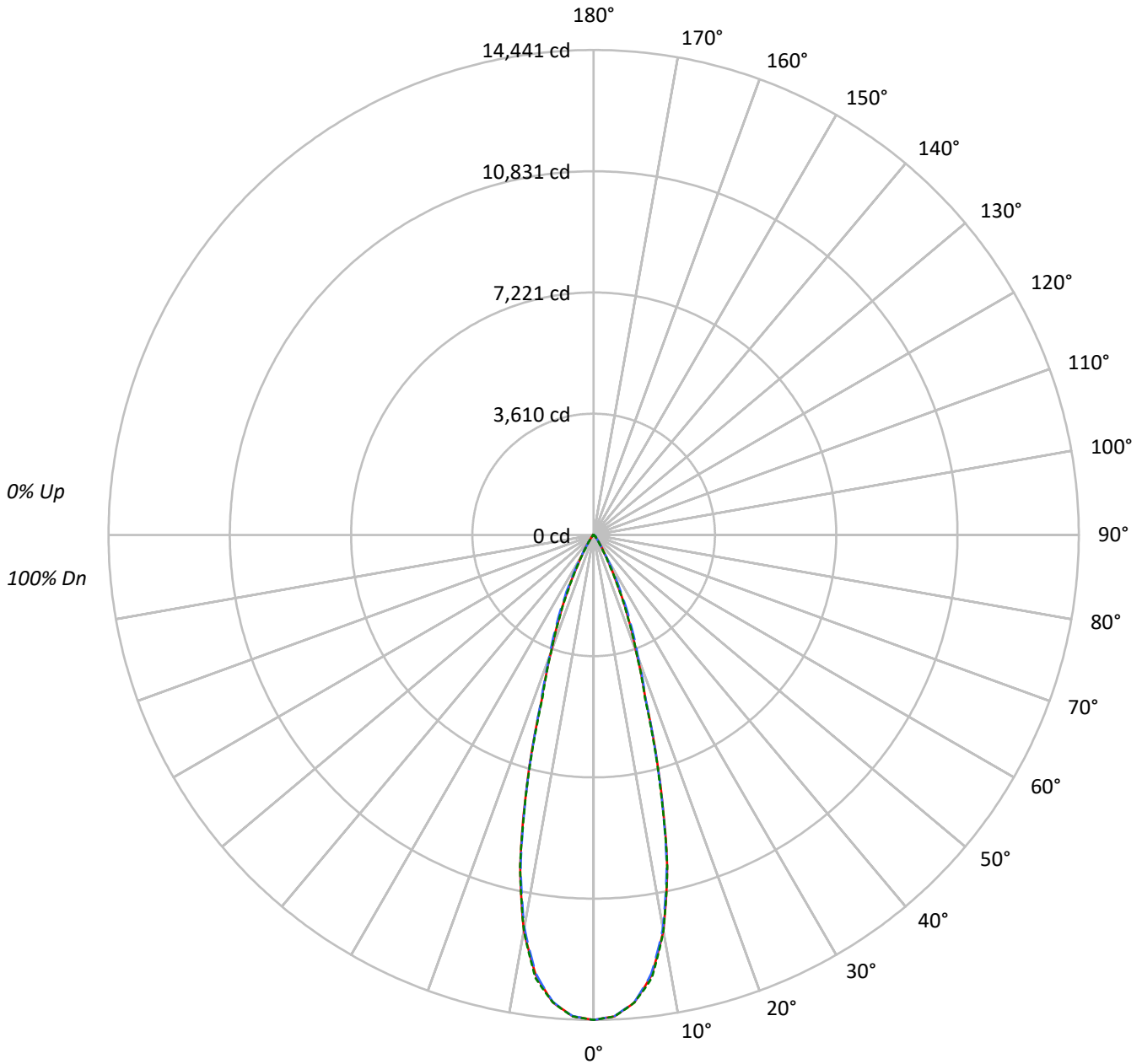


Downlight

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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	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°	1105394	1105394	1105394
5°	1073657	1072405	1073719
10°	929955	923395	929729
15°	606744	603487	600452
20°	301704	313026	301305
25°	151979	171379	148863
30°	60853	66297	53013
35°	28220	27033	22660
40°	12190	13529	11481
45°	8595	10673	8671
50°	2953	7764	3120
55°	1708	3216	1802
60°	1194	1408	1194
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: 10673 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1269.9	28.3
10°-20°	2045.2	45.5
20°-30°	883.8	19.7
30°-40°	201.4	4.5
40°-50°	69.2	1.5
50°-60°	16.9	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°	4198.9	93.5
0°-40°	4400.3	98.0
0°-60°	4486.4	99.9
0°-90°	4491.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4491.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	14441	14441	14441	14441	14441	
5°	13973	13960	13957	13986	13974	1271
15°	7657	7565	7616	7591	7577	2050
25°	1800	1868	2029	1820	1763	861
35°	302	308	289	287	242	205
45°	79	99	99	99	80	56
55°	13	14	24	14	14	12
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	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	14441.4	14441.4	14441.4	14441.4	14441.4
2.5°	14345.7	14335.8	14341.4	14348.5	14351.4
5°	13973.4	13960.0	13957.1	13986.2	13974.2
7.5°	13222.6	13203.4	13174.4	13240.3	13302.0
10°	11964.8	11943.5	11880.4	11911.6	11961.9
12.5°	10107.8	10039.1	10037.7	10136.9	10123.4
15°	7656.7	7564.6	7615.6	7590.8	7577.3
17.5°	5148.9	5113.5	5181.5	5161.0	5072.4
20°	3703.9	3713.2	3842.9	3777.7	3699.0
22.5°	2702.8	2736.1	2890.0	2721.9	2660.3
25°	1799.5	1867.6	2029.2	1820.1	1762.6
27.5°	1106.8	1138.0	1301.8	1092.6	1061.4
30°	688.5	672.9	750.1	643.8	599.8
32.5°	451.6	431.8	456.6	409.8	374.4
35°	302.0	308.4	289.3	287.2	242.5
37.5°	188.6	217.0	191.4	204.2	156.0
40°	122.0	157.4	135.4	149.6	114.9
42.5°	100.0	121.2	111.3	118.4	102.1
45°	79.4	98.6	98.6	98.6	80.1
47.5°	44.0	65.9	84.4	67.4	46.8
50°	24.8	33.3	65.2	34.7	26.2
52.5°	17.0	19.1	44.7	19.9	17.7
55°	12.8	13.5	24.1	14.2	13.5
57.5°	9.9	10.6	12.8	10.6	9.9
60°	7.8	7.8	9.2	8.5	7.8
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	2.8	2.8	2.8	2.8
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

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Scaled Data Report



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Scaled Data Report







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

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(END OF REPORT)