

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: P749895

Luminaire Tested: LD4D55D010-EU4DR3055659030-4LBDP1H

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P749895  
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: LD4D55D010-EU4DR3055659030-4LBDP1H  
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5343.1 lumens  
Efficiency: N/A  
Efficacy: 91.8 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): 58.2  
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

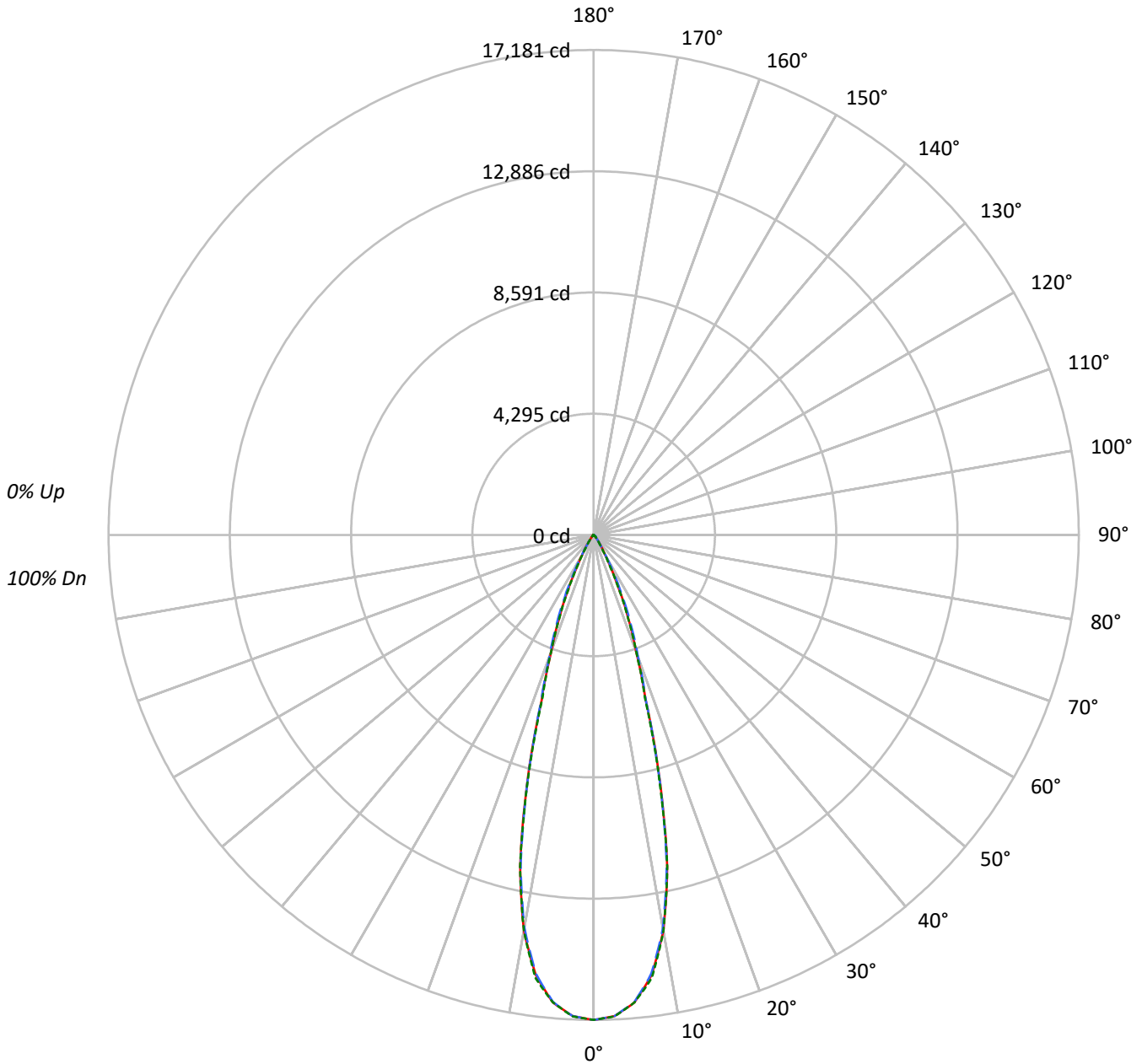


Downlight

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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°	1315069	1315069	1315069
5°	1277318	1275827	1277379
10°	1106350	1098546	1106085
15°	721837	717962	714349
20°	358935	372400	358454
25°	180804	203886	177105
30°	72396	78875	63071
35°	33574	32163	26958
40°	14498	16097	13649
45°	10230	12687	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: 12687 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1510.8	28.3
10°-20°	2433.1	45.5
20°-30°	1051.4	19.7
30°-40°	239.6	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°	4995.3	93.5
0°-40°	5235.0	98.0
0°-60°	5337.3	99.9
0°-90°	5343.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5343.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	17181	17181	17181	17181	17181	
5°	16624	16608	16605	16639	16625	1512
15°	9109	8999	9060	9031	9015	2439
25°	2141	2222	2414	2165	2097	1025
35°	359	367	344	342	288	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°	17180.7	17180.7	17180.7	17180.7	17180.7
2.5°	17066.8	17055.0	17061.7	17070.2	17073.6
5°	16624.0	16607.9	16604.6	16639.1	16624.8
7.5°	15730.7	15707.9	15673.3	15751.8	15825.2
10°	14234.3	14209.0	14133.9	14171.0	14230.9
12.5°	12025.1	11943.3	11941.6	12059.7	12043.7
15°	9109.1	8999.4	9060.2	9030.7	9014.6
17.5°	6125.6	6083.4	6164.4	6139.9	6034.5
20°	4406.5	4417.5	4571.8	4494.2	4400.6
22.5°	3215.5	3255.1	3438.2	3238.2	3164.9
25°	2140.8	2221.8	2414.1	2165.3	2097.0
27.5°	1316.7	1353.8	1548.7	1299.9	1262.7
30°	819.1	800.5	892.4	765.9	713.6
32.5°	537.3	513.7	543.2	487.6	445.4
35°	359.3	366.9	344.2	341.6	288.5
37.5°	224.4	258.1	227.7	242.9	185.6
40°	145.1	187.3	161.1	178.0	136.6
42.5°	118.9	144.2	132.4	140.9	121.5
45°	94.5	117.2	117.2	117.2	95.3
47.5°	52.3	78.4	100.4	80.1	55.7
50°	29.5	39.6	77.6	41.3	31.2
52.5°	20.2	22.8	53.1	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

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Scaled Data Report







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

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(END OF REPORT)