

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: P742140

Luminaire Tested: LD4D10D010-EU4DR300210IC9035-4LBDP1H

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P742140  
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: LD4D10D010-EU4DR300210IC9035-4LBDP1H  
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1030.3 lumens  
Efficiency: N/A  
Efficacy: 88.1 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): 11.7  
Input Voltage (V): NR  
Input Current (Ain): 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



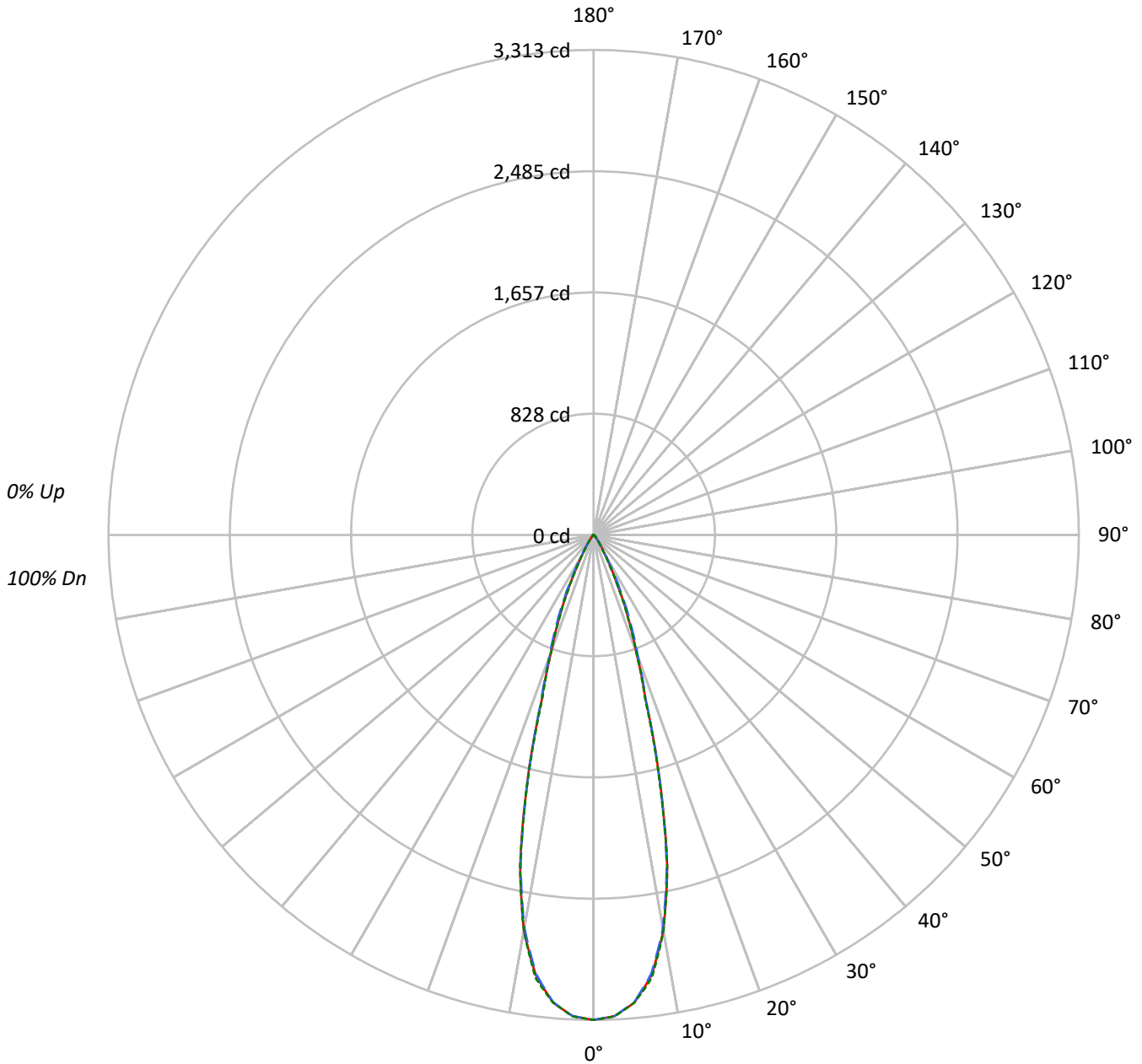
Downlight



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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																			
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°	253565	253565	253565
5°	246289	245997	246297
10°	213322	211814	213275
15°	139183	138438	137741
20°	69205	71803	69115
25°	34864	39314	34146
30°	13956	15211	12162
35°	6476	6195	5195
40°	2798	3108	2638
45°	1970	2446	1992
50°	679	1786	714
55°	387	747	414
60°	276	321	276
65°	181	181	181
70°	112	67	112
75°	0	59	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 2446 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	291.3	28.3
10°-20°	469.1	45.5
20°-30°	202.7	19.7
30°-40°	46.2	4.5
40°-50°	15.9	1.5
50°-60°	3.9	0.4
60°-70°	1.0	0.1
70°-80°	0.1	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°	963.2	93.5
0°-40°	1009.4	98.0
0°-60°	1029.2	99.9
0°-90°	1030.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1030.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3313	3313	3313	3313	3313	
5°	3205	3202	3202	3208	3206	292
15°	1756	1735	1747	1741	1738	470
25°	413	428	466	418	404	198
35°	69	71	66	66	56	47
45°	18	23	23	23	18	13
55°	3	3	6	3	3	3
65°	1	1	1	1	1	1
75°	0	0	0	0	0	0
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°	3312.7	3312.7	3312.7	3312.7	3312.7
2.5°	3290.7	3288.5	3289.8	3291.4	3292.1
5°	3205.4	3202.3	3201.6	3208.3	3205.5
7.5°	3033.1	3028.7	3022.1	3037.2	3051.4
10°	2744.6	2739.7	2725.2	2732.4	2744.0
12.5°	2318.7	2302.9	2302.6	2325.3	2322.2
15°	1756.4	1735.2	1747.0	1741.3	1738.2
17.5°	1181.1	1173.0	1188.6	1183.9	1163.5
20°	849.6	851.7	881.5	866.6	848.5
22.5°	620.0	627.7	663.0	624.4	610.2
25°	412.8	428.4	465.5	417.5	404.3
27.5°	253.9	261.0	298.6	250.6	243.5
30°	157.9	154.4	172.1	147.7	137.6
32.5°	103.6	99.1	104.7	94.0	85.9
35°	69.3	70.8	66.3	65.9	55.6
37.5°	43.3	49.8	43.9	46.9	35.8
40°	28.0	36.1	31.1	34.3	26.4
42.5°	22.9	27.8	25.6	27.2	23.4
45°	18.2	22.6	22.6	22.6	18.4
47.5°	10.1	15.1	19.4	15.5	10.7
50°	5.7	7.6	15.0	8.0	6.0
52.5°	3.9	4.4	10.3	4.5	4.1
55°	2.9	3.1	5.6	3.3	3.1
57.5°	2.3	2.5	2.9	2.5	2.3
60°	1.8	1.8	2.1	1.9	1.8
62.5°	1.3	1.3	1.5	1.3	1.3
65°	1.0	1.0	1.0	1.0	1.0
67.5°	0.5	0.6	0.6	0.6	0.6
70°	0.5	0.3	0.3	0.3	0.5
72.5°	0.3	0.2	0.2	0.2	0.2
75°	0.0	0.0	0.2	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)