

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: P745099

Luminaire Tested: LD4D25D010-EU4DR3020359050-4LBDP1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P745099
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: LD4D25D010-EU4DR3020359050-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2619.3 lumens
Efficiency: N/A
Efficacy: 104.4 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 (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

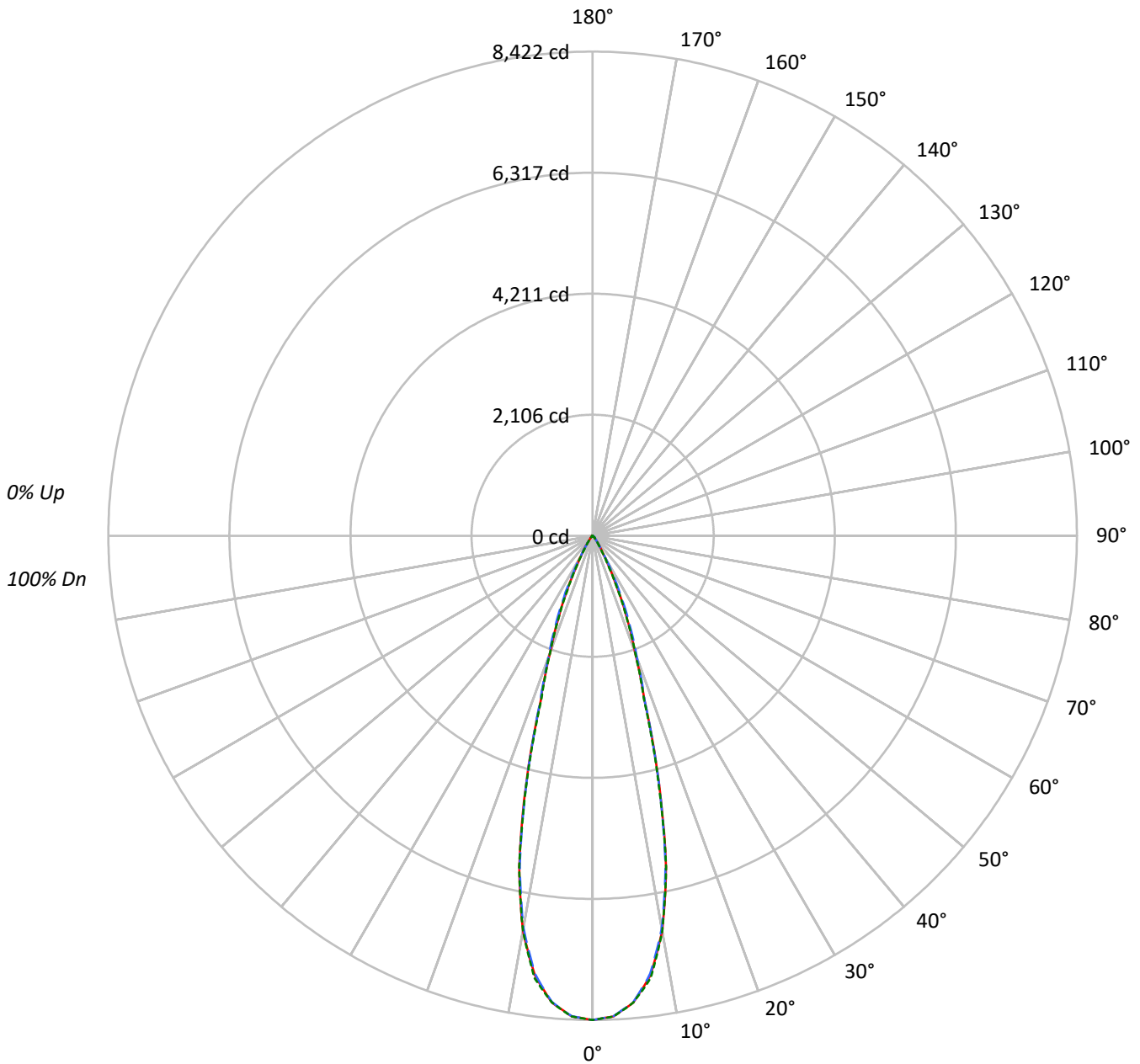


Downlight



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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°	644679	644679	644679
5°	626165	625436	626204
10°	542359	538535	542227
15°	353862	351960	350193
20°	175961	182559	175725
25°	88637	99954	86821
30°	35486	38668	30917
35°	16465	15764	13213
40°	7104	7894	6695
45°	5012	6224	5066
50°	1727	4525	1822
55°	988	1868	1041
60°	689	827	689
65°	453	453	453
70°	291	179	291
75°	0	118	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 6224 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	740.6	28.3
10°-20°	1192.8	45.5
20°-30°	515.4	19.7
30°-40°	117.5	4.5
40°-50°	40.3	1.5
50°-60°	9.8	0.4
60°-70°	2.6	0.1
70°-80°	0.3	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°	2448.8	93.5
0°-40°	2566.3	98.0
0°-60°	2616.5	99.9
0°-90°	2619.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2619.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8422	8422	8422	8422	8422	
5°	8149	8142	8140	8157	8150	741
15°	4466	4412	4442	4427	4419	1196
25°	1050	1089	1184	1062	1028	502
35°	176	180	169	168	141	119
45°	46	58	58	58	47	33
55°	7	8	14	8	8	7
65°	2	2	2	2	2	2
75°	0	0	0	0	0	0
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°	8422.4	8422.4	8422.4	8422.4	8422.4
2.5°	8366.5	8360.7	8364.1	8368.2	8369.8
5°	8149.4	8141.6	8139.9	8156.9	8149.9
7.5°	7711.5	7700.4	7683.4	7721.9	7757.9
10°	6978.0	6965.6	6928.8	6947.0	6976.3
12.5°	5895.0	5854.9	5854.1	5911.9	5904.1
15°	4465.5	4411.7	4441.5	4427.0	4419.2
17.5°	3002.9	2982.2	3021.9	3009.9	2958.3
20°	2160.2	2165.5	2241.2	2203.2	2157.3
22.5°	1576.3	1595.7	1685.4	1587.5	1551.5
25°	1049.5	1089.2	1183.5	1061.5	1028.0
27.5°	645.5	663.7	759.2	637.2	619.0
30°	401.5	392.4	437.5	375.5	349.8
32.5°	263.4	251.8	266.3	239.0	218.4
35°	176.2	179.8	168.7	167.5	141.4
37.5°	110.0	126.5	111.7	119.1	91.0
40°	71.1	91.8	79.0	87.3	67.0
42.5°	58.3	70.7	64.9	69.0	59.5
45°	46.3	57.5	57.5	57.5	46.8
47.5°	25.6	38.4	49.2	39.3	27.3
50°	14.5	19.4	38.0	20.3	15.3
52.5°	9.9	11.2	26.1	11.6	10.3
55°	7.4	7.8	14.0	8.3	7.8
57.5°	5.8	6.2	7.4	6.2	5.8
60°	4.5	4.5	5.4	5.0	4.5
62.5°	3.3	3.3	3.7	3.3	3.3
65°	2.5	2.5	2.5	2.5	2.5
67.5°	1.3	1.7	1.7	1.7	1.7
70°	1.3	0.8	0.8	0.8	1.3
72.5°	0.8	0.4	0.4	0.4	0.4
75°	0.0	0.0	0.4	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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