

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: P745049

Luminaire Tested: LD4D25D010-EU4DR3020359027-4LBS1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P745049
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-EU4DR3020359027-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2224.0 lumens
Efficiency: N/A
Efficacy: 88.6 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): 25.1
Input Voltage (V): NR
Input Current (A_{in}): 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

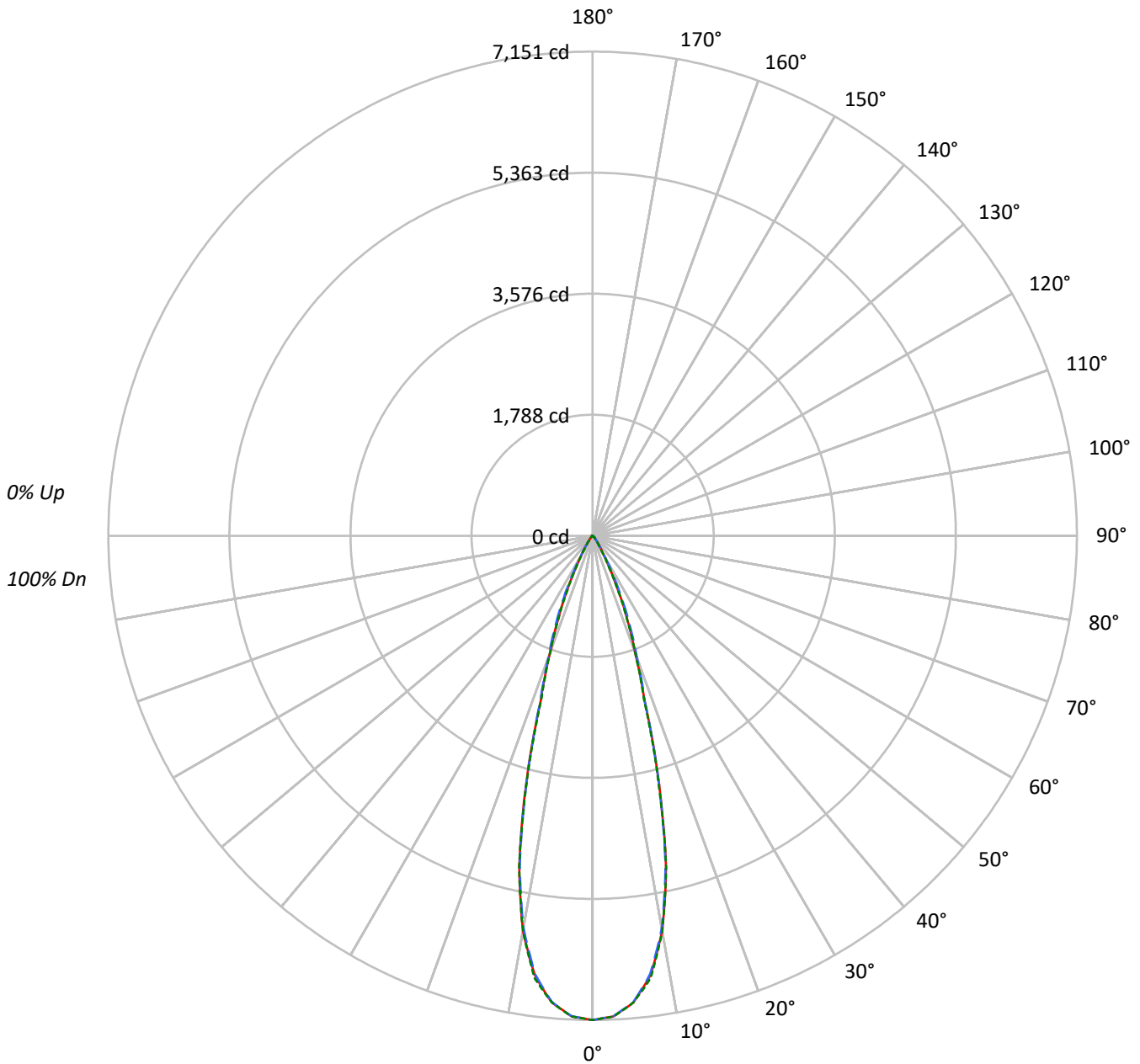


Downlight



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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	87	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°	547392	547392	547392
5°	531673	531058	531704
10°	460508	457267	460407
15°	300460	298851	297346
20°	149406	155010	149203
25°	75259	84870	73713
30°	30130	32835	26250
35°	13979	13381	11222
40°	6035	6695	5685
45°	4254	5283	4287
50°	1465	3846	1548
55°	841	1588	881
60°	582	704	582
65°	380	380	380
70°	224	157	224
75°	0	89	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 5283 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	628.9	28.3
10°-20°	1012.8	45.5
20°-30°	437.6	19.7
30°-40°	99.7	4.5
40°-50°	34.2	1.5
50°-60°	8.4	0.4
60°-70°	2.2	0.1
70°-80°	0.2	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°	2079.3	93.5
0°-40°	2179.0	98.0
0°-60°	2221.6	99.9
0°-90°	2224.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2224.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7151	7151	7151	7151	7151	
5°	6920	6913	6912	6926	6920	629
15°	3792	3746	3771	3759	3752	1015
25°	891	925	1005	901	873	427
35°	150	153	143	142	120	101
45°	39	49	49	49	40	28
55°	6	7	12	7	7	6
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°	7151.4	7151.4	7151.4	7151.4	7151.4
2.5°	7104.0	7099.1	7101.9	7105.4	7106.8
5°	6919.6	6913.0	6911.6	6926.0	6920.0
7.5°	6547.9	6538.3	6524.0	6556.6	6587.2
10°	5924.9	5914.5	5883.2	5898.6	5923.6
12.5°	5005.4	4971.4	4970.6	5019.8	5013.1
15°	3791.6	3746.0	3771.3	3759.0	3752.3
17.5°	2549.7	2532.2	2565.9	2555.7	2511.8
20°	1834.2	1838.8	1903.0	1870.7	1831.7
22.5°	1338.4	1354.9	1431.1	1347.9	1317.4
25°	891.1	924.8	1004.9	901.3	872.8
27.5°	548.1	563.6	644.6	541.0	525.6
30°	340.9	333.2	371.5	318.8	297.0
32.5°	223.7	213.8	226.1	202.9	185.4
35°	149.6	152.7	143.2	142.2	120.1
37.5°	93.4	107.4	94.8	101.1	77.2
40°	60.4	77.9	67.0	74.1	56.9
42.5°	49.5	60.0	55.1	58.6	50.5
45°	39.3	48.8	48.8	48.8	39.6
47.5°	21.8	32.7	41.8	33.3	23.1
50°	12.3	16.5	32.3	17.2	13.0
52.5°	8.4	9.5	22.1	9.9	8.8
55°	6.3	6.6	11.9	7.0	6.6
57.5°	4.9	5.3	6.3	5.3	4.9
60°	3.8	3.8	4.6	4.2	3.8
62.5°	2.8	2.8	3.2	2.8	2.8
65°	2.1	2.1	2.1	2.1	2.1
67.5°	1.0	1.4	1.4	1.4	1.4
70°	1.0	0.7	0.7	0.7	1.0
72.5°	0.7	0.3	0.3	0.3	0.3
75°	0.0	0.0	0.3	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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