

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: P749881

Luminaire Tested: LD4D55D010-EU4DR3055659027-4LBDP1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P749881
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-EU4DR3055659027-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF 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: 4175.5 lumens
Efficiency: N/A
Efficacy: 71.7 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_{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

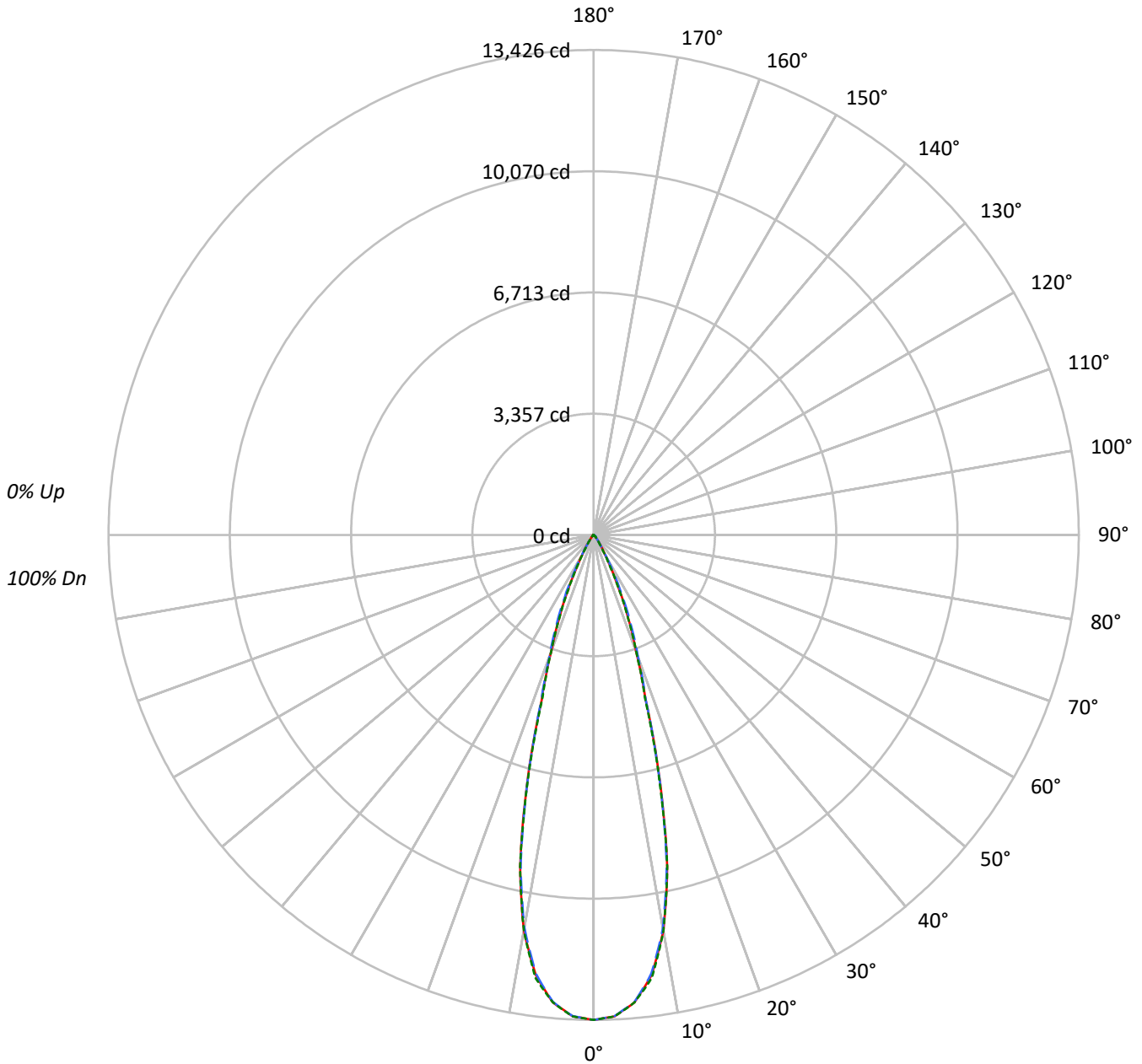


Downlight

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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	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°	1027695	1027695	1027695
5°	998189	997029	998243
10°	864588	858487	864379
15°	564103	561068	558247
20°	280501	291025	280126
25°	141295	159335	138399
30°	56575	61639	49292
35°	26239	25127	21062
40°	11331	12580	10671
45°	7989	9916	8065
50°	2751	7216	2906
55°	1588	2989	1668
60°	1118	1317	1118
65°	724	724	724
70°	448	291	448
75°	0	207	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 9916 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1180.6	28.3
10°-20°	1901.4	45.5
20°-30°	821.7	19.7
30°-40°	187.3	4.5
40°-50°	64.3	1.5
50°-60°	15.7	0.4
60°-70°	4.1	0.1
70°-80°	0.4	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°	3903.7	93.5
0°-40°	4091.0	98.0
0°-60°	4171.0	99.9
0°-90°	4175.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4175.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13426	13426	13426	13426	13426	
5°	12991	12979	12976	13003	12992	1182
15°	7119	7033	7080	7057	7045	1906
25°	1673	1736	1887	1692	1639	801
35°	281	287	269	267	225	190
45°	74	92	92	92	74	52
55°	12	12	22	13	12	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°	13426.3	13426.3	13426.3	13426.3	13426.3
2.5°	13337.3	13328.1	13333.4	13340.0	13342.6
5°	12991.2	12978.7	12976.1	13003.1	12991.9
7.5°	12293.2	12275.4	12248.3	12309.6	12367.0
10°	11123.8	11104.0	11045.3	11074.3	11121.1
12.5°	9397.4	9333.4	9332.1	9424.4	9411.9
15°	7118.6	7032.9	7080.3	7057.2	7044.7
17.5°	4787.0	4754.1	4817.3	4798.2	4715.8
20°	3443.6	3452.2	3572.8	3512.1	3439.0
22.5°	2512.8	2543.8	2686.8	2530.6	2473.3
25°	1673.0	1736.3	1886.6	1692.1	1638.7
27.5°	1029.0	1058.0	1210.3	1015.8	986.8
30°	640.1	625.6	697.4	598.5	557.7
32.5°	419.9	401.4	424.5	381.0	348.1
35°	280.8	286.7	268.9	267.0	225.4
37.5°	175.3	201.7	178.0	189.8	145.0
40°	113.4	146.3	125.9	139.1	106.8
42.5°	92.9	112.7	103.5	110.1	94.9
45°	73.8	91.6	91.6	91.6	74.5
47.5°	40.9	61.3	78.4	62.6	43.5
50°	23.1	31.0	60.6	32.3	24.4
52.5°	15.8	17.8	41.5	18.5	16.5
55°	11.9	12.5	22.4	13.2	12.5
57.5°	9.2	9.9	11.9	9.9	9.2
60°	7.3	7.3	8.6	7.9	7.3
62.5°	5.3	5.3	5.9	5.3	5.3
65°	4.0	4.0	4.0	4.0	4.0
67.5°	2.0	2.6	2.6	2.6	2.6
70°	2.0	1.3	1.3	1.3	2.0
72.5°	1.3	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





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

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