

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: P749088

Luminaire Tested: LD4D50D010-EU4DR3040509024-4LBDP1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P749088
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: LD4D50D010-EU4DR3040509024-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3260.3 lumens
Efficiency: N/A
Efficacy: 69.4 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

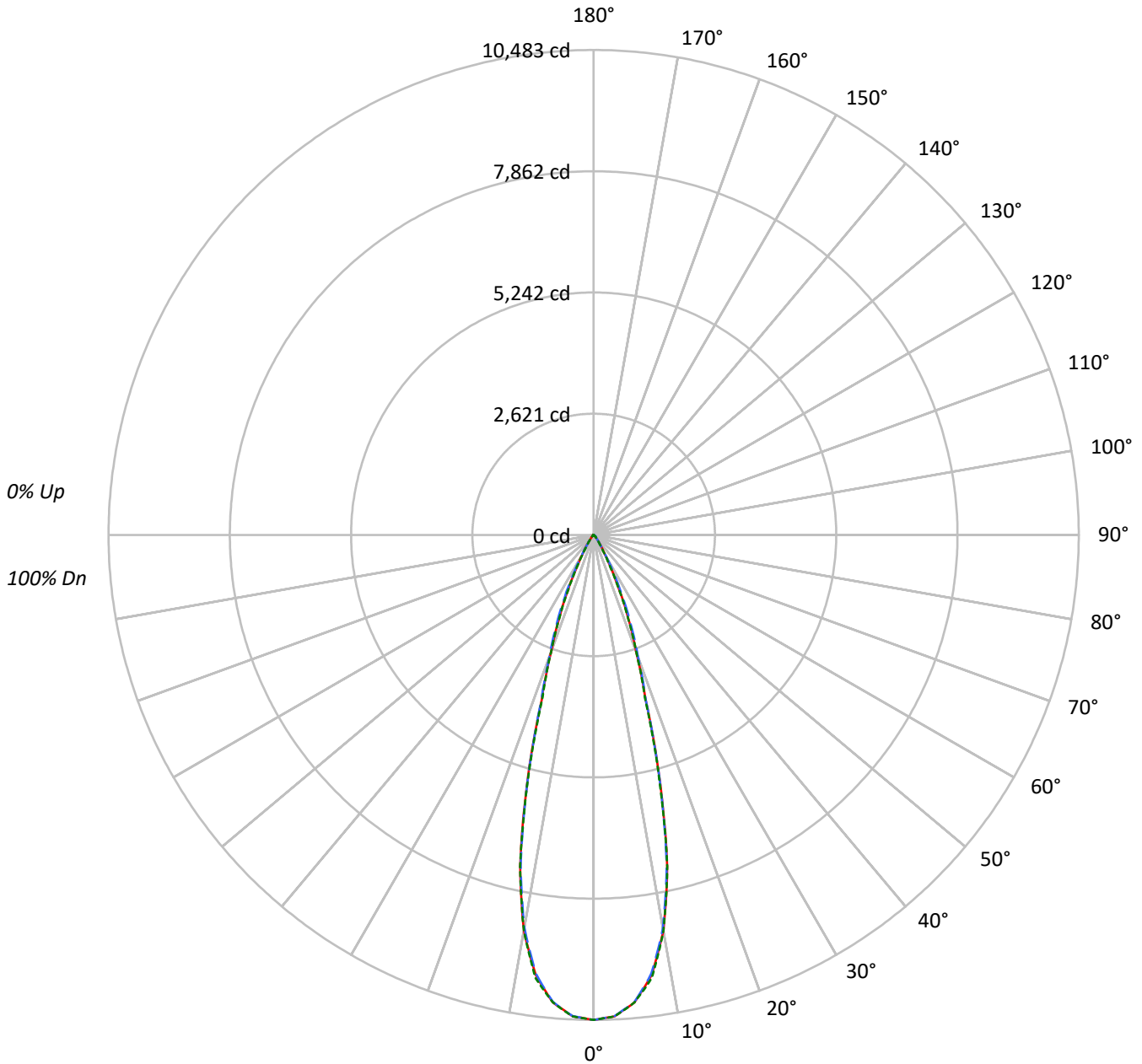
Input Watts (W): 47
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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°	802435	802435	802435
5°	779399	778492	779438
10°	675081	670317	674918
15°	440452	438090	435887
20°	219018	227237	218725
25°	110325	124413	108062
30°	44175	48134	38483
35°	20492	19623	16446
40°	8843	9822	8333
45°	6235	7740	6300
50°	2143	5644	2263
55°	1241	2335	1308
60°	873	1026	873
65°	561	561	561
70°	336	224	336
75°	0	148	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 7740 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	921.9	28.3
10°-20°	1484.7	45.5
20°-30°	641.6	19.7
30°-40°	146.2	4.5
40°-50°	50.2	1.5
50°-60°	12.3	0.4
60°-70°	3.2	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°	3048.1	93.5
0°-40°	3194.3	98.0
0°-60°	3256.8	99.9
0°-90°	3260.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3260.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10483	10483	10483	10483	10483	
5°	10144	10134	10132	10153	10144	923
15°	5558	5491	5528	5510	5501	1488
25°	1306	1356	1473	1321	1280	625
35°	219	224	210	208	176	149
45°	58	72	72	72	58	41
55°	9	10	18	10	10	9
65°	3	3	3	3	3	3
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°	10483.4	10483.4	10483.4	10483.4	10483.4
2.5°	10413.9	10406.7	10410.8	10416.0	10418.0
5°	10143.7	10133.9	10131.9	10153.0	10144.2
7.5°	9598.6	9584.7	9563.6	9611.5	9656.3
10°	8685.6	8670.1	8624.3	8647.0	8683.5
12.5°	7337.6	7287.6	7286.6	7358.7	7348.9
15°	5558.2	5491.3	5528.4	5510.4	5500.6
17.5°	3737.7	3712.0	3761.4	3746.5	3682.2
20°	2688.8	2695.5	2789.7	2742.3	2685.2
22.5°	1962.0	1986.2	2097.9	1975.9	1931.2
25°	1306.3	1355.7	1473.1	1321.2	1279.5
27.5°	803.4	826.1	945.0	793.2	770.5
30°	499.8	488.4	544.6	467.3	435.4
32.5°	327.9	313.5	331.5	297.5	271.8
35°	219.3	223.9	210.0	208.5	176.0
37.5°	136.9	157.5	139.0	148.2	113.2
40°	88.5	114.3	98.3	108.6	83.4
42.5°	72.6	88.0	80.8	86.0	74.1
45°	57.6	71.5	71.5	71.5	58.2
47.5°	31.9	47.9	61.2	48.9	34.0
50°	18.0	24.2	47.4	25.2	19.0
52.5°	12.4	13.9	32.4	14.4	12.9
55°	9.3	9.8	17.5	10.3	9.8
57.5°	7.2	7.7	9.3	7.7	7.2
60°	5.7	5.7	6.7	6.2	5.7
62.5°	4.1	4.1	4.6	4.1	4.1
65°	3.1	3.1	3.1	3.1	3.1
67.5°	1.5	2.1	2.1	2.1	2.1
70°	1.5	1.0	1.0	1.0	1.5
72.5°	1.0	0.5	0.5	0.5	0.5
75°	0.0	0.0	0.5	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

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



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Scaled Data Report





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

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