

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: P748370

Luminaire Tested: LD4D45BD010-EU4DR3040509050-4LBCSSQMB

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P748370
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: LD4D45BD010-EU4DR3040509050-4LBCSSQMB
Description: 4 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3914.8 lumens
Efficiency: N/A
Efficacy: 101.2 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

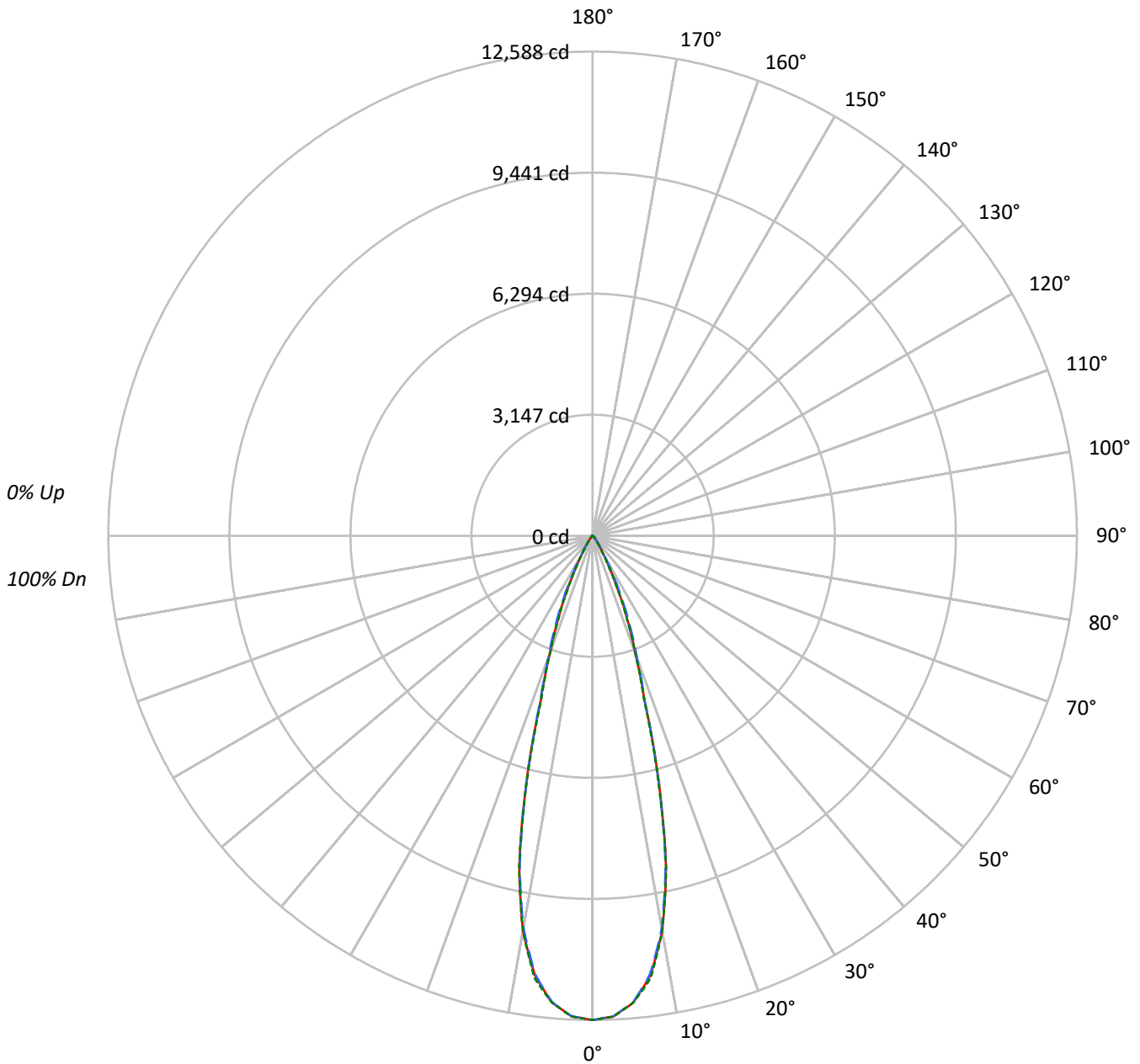
Input Watts (W): 38.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	963528	963528	963528
5°	935867	934776	935914
10°	810601	804889	810415
15°	528879	526042	523396
20°	262988	272852	262638
25°	132478	149386	129759
30°	53040	57795	46216
35°	24603	23566	19754
40°	10622	11791	10002
45°	7491	9299	7556
50°	2572	6776	2727
55°	1481	2802	1561
60°	1041	1225	1041
65°	670	670	670
70°	425	269	425
75°	0	177	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 9299 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1106.9	28.3
10°-20°	1782.7	45.5
20°-30°	770.4	19.7
30°-40°	175.6	4.5
40°-50°	60.3	1.5
50°-60°	14.7	0.4
60°-70°	3.8	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°	3660.0	93.5
0°-40°	3835.6	98.0
0°-60°	3910.6	99.9
0°-90°	3914.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3914.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12588	12588	12588	12588	12588	
5°	12180	12168	12166	12191	12181	1108
15°	6674	6594	6638	6617	6605	1787
25°	1569	1628	1769	1586	1536	751
35°	263	269	252	250	211	179
45°	69	86	86	86	70	49
55°	11	12	21	12	12	11
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	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	12588.0	12588.0	12588.0	12588.0	12588.0
2.5°	12504.6	12495.9	12500.9	12507.1	12509.5
5°	12180.1	12168.4	12165.9	12191.2	12180.7
7.5°	11525.6	11508.9	11483.6	11541.1	11594.9
10°	10429.2	10410.7	10355.7	10382.9	10426.8
12.5°	8810.6	8750.7	8749.4	8836.0	8824.2
15°	6674.1	6593.8	6638.3	6616.6	6604.9
17.5°	4488.1	4457.2	4516.6	4498.6	4421.4
20°	3228.6	3236.6	3349.7	3292.9	3224.3
22.5°	2355.9	2385.0	2519.1	2372.6	2318.8
25°	1568.6	1627.9	1768.8	1586.5	1536.4
27.5°	964.7	991.9	1134.7	952.4	925.2
30°	600.1	586.5	653.9	561.2	522.9
32.5°	393.7	376.4	398.0	357.2	326.3
35°	263.3	268.8	252.2	250.3	211.4
37.5°	164.4	189.1	166.9	178.0	136.0
40°	106.3	137.2	118.0	130.4	100.1
42.5°	87.1	105.7	97.0	103.2	89.0
45°	69.2	85.9	85.9	85.9	69.8
47.5°	38.3	57.5	73.5	58.7	40.8
50°	21.6	29.0	56.9	30.3	22.9
52.5°	14.8	16.7	38.9	17.3	15.5
55°	11.1	11.7	21.0	12.4	11.7
57.5°	8.7	9.3	11.1	9.3	8.7
60°	6.8	6.8	8.0	7.4	6.8
62.5°	4.9	4.9	5.6	4.9	4.9
65°	3.7	3.7	3.7	3.7	3.7
67.5°	1.9	2.5	2.5	2.5	2.5
70°	1.9	1.2	1.2	1.2	1.9
72.5°	1.2	0.6	0.6	0.6	0.6
75°	0.0	0.0	0.6	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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