

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: P747551

Luminaire Tested: LD4D40BD010-EU4DR3040509030-4LBCSSQMB

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P747551
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: LD4D40BD010-EU4DR3040509030-4LBCSSQMB
Description: 4 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3354.7 lumens
Efficiency: N/A
Efficacy: 95.3 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

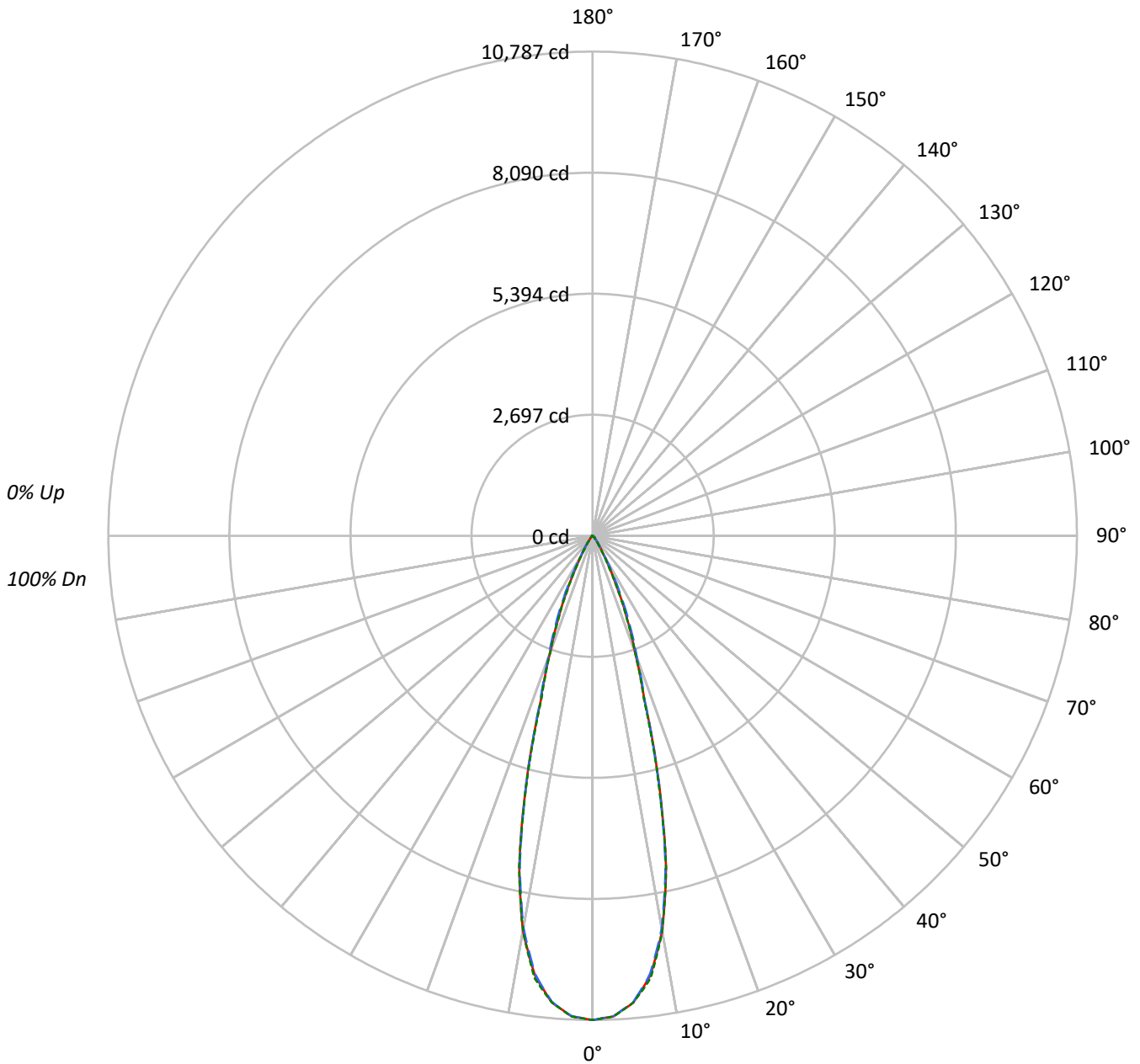
Input Watts (W): 35.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	825681	825681	825681
5°	801973	801036	802020
10°	694629	689732	694466
15°	453210	450777	448511
20°	225364	233819	225062
25°	113518	128010	111195
30°	45456	49522	39596
35°	21081	20193	16922
40°	9103	10112	8573
45°	6419	7967	6473
50°	2203	5799	2334
55°	1268	2402	1348
60°	888	1056	888
65°	580	580	580
70°	358	246	358
75°	0	148	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 7967 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	948.6	28.3
10°-20°	1527.7	45.5
20°-30°	660.1	19.7
30°-40°	150.5	4.5
40°-50°	51.7	1.5
50°-60°	12.6	0.4
60°-70°	3.3	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°	3136.4	93.5
0°-40°	3286.8	98.0
0°-60°	3351.1	99.9
0°-90°	3354.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3354.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10787	10787	10787	10787	10787	
5°	10438	10428	10425	10447	10438	949
15°	5719	5650	5688	5670	5660	1531
25°	1344	1395	1516	1360	1317	643
35°	226	230	216	214	181	153
45°	59	74	74	74	60	42
55°	10	10	18	11	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°	10787.1	10787.1	10787.1	10787.1	10787.1
2.5°	10715.6	10708.2	10712.4	10717.7	10719.8
5°	10437.5	10427.5	10425.3	10447.1	10438.1
7.5°	9876.7	9862.4	9840.7	9889.9	9936.0
10°	8937.1	8921.3	8874.1	8897.4	8935.0
12.5°	7550.1	7498.7	7497.7	7571.8	7561.8
15°	5719.2	5650.4	5688.5	5670.0	5659.9
17.5°	3846.0	3819.5	3870.4	3855.0	3788.8
20°	2766.7	2773.6	2870.5	2821.8	2763.0
22.5°	2018.9	2043.8	2158.7	2033.2	1987.1
25°	1344.1	1395.0	1515.7	1359.5	1316.6
27.5°	826.7	850.0	972.4	816.1	792.8
30°	514.3	502.6	560.3	480.9	448.0
32.5°	337.4	322.5	341.1	306.1	279.6
35°	225.6	230.4	216.1	214.5	181.1
37.5°	140.9	162.1	143.0	152.5	116.5
40°	91.1	117.6	101.2	111.7	85.8
42.5°	74.7	90.6	83.1	88.4	76.3
45°	59.3	73.6	73.6	73.6	59.8
47.5°	32.8	49.3	63.0	50.3	35.0
50°	18.5	24.9	48.7	26.0	19.6
52.5°	12.7	14.3	33.4	14.8	13.2
55°	9.5	10.1	18.0	10.6	10.1
57.5°	7.4	7.9	9.5	7.9	7.4
60°	5.8	5.8	6.9	6.4	5.8
62.5°	4.2	4.2	4.8	4.2	4.2
65°	3.2	3.2	3.2	3.2	3.2
67.5°	1.6	2.1	2.1	2.1	2.1
70°	1.6	1.1	1.1	1.1	1.6
72.5°	1.1	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

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Scaled Data Report





— 0°-180° - - 45°-225° - - - 90°-270°

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