

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: P747553

Luminaire Tested: LD4D40BD010-EU4DR3040509030-4LBCSSQMW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P747553
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-EU4DR3040509030-4LBCSSQMW
Description: 4 INCH SQAURE SHALLOW CAST MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3355.2 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

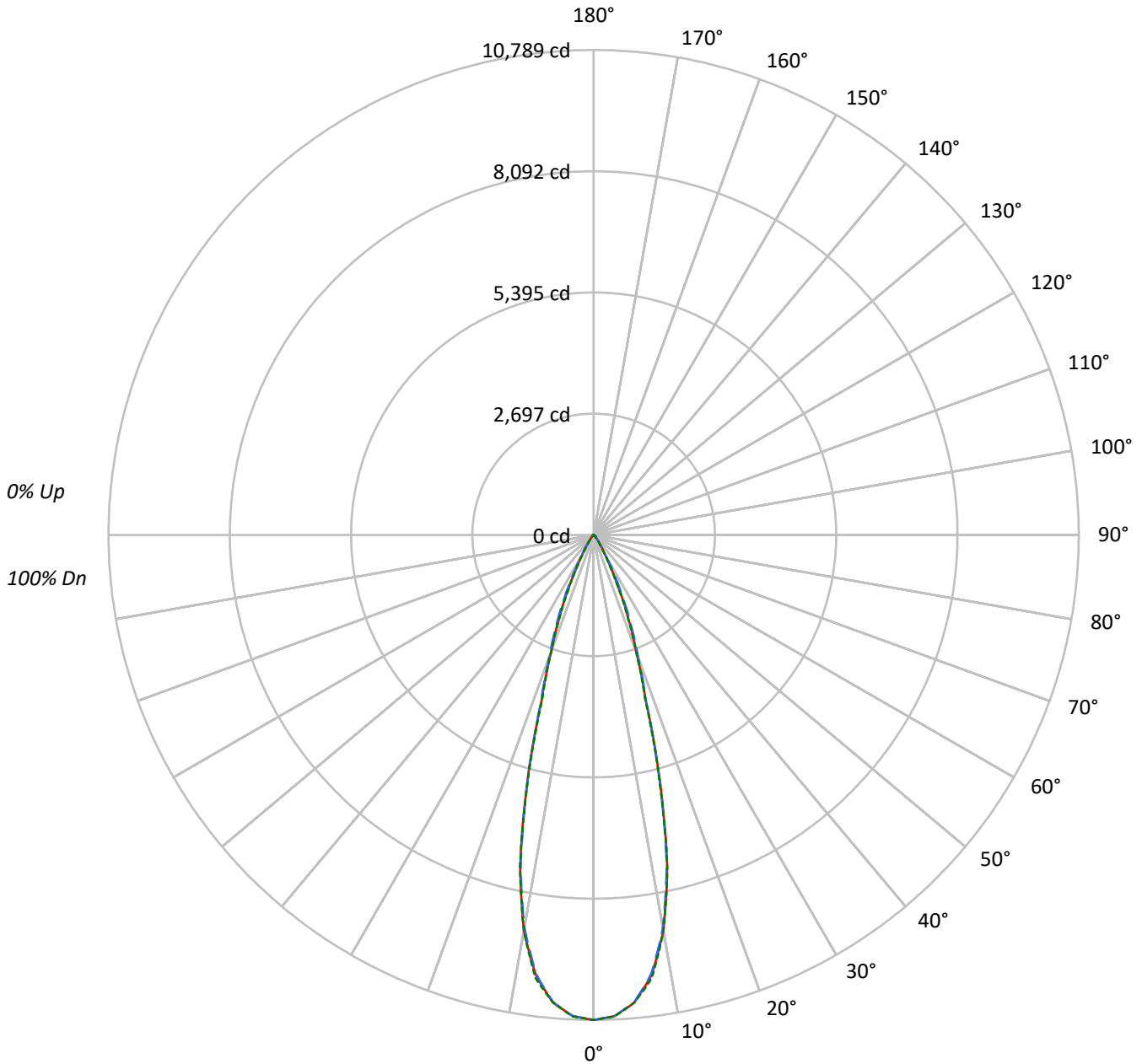
Input Watts (W): 35.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	825811	825811	825811
5°	802104	801167	802142
10°	694746	689841	694575
15°	453281	450848	448582
20°	225396	233851	225095
25°	113543	128036	111212
30°	45456	49531	39605
35°	21081	20193	16932
40°	9103	10112	8573
45°	6419	7967	6484
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°	948.7	28.3
10°-20°	1527.9	45.5
20°-30°	660.2	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°	3136.9	93.5
0°-40°	3287.3	98.0
0°-60°	3351.6	99.9
0°-90°	3355.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3355.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10789	10789	10789	10789	10789	
5°	10439	10429	10427	10449	10440	949
15°	5720	5651	5689	5671	5661	1532
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°	10788.8	10788.8	10788.8	10788.8	10788.8
2.5°	10717.3	10709.8	10714.1	10719.4	10721.5
5°	10439.2	10429.1	10427.0	10448.7	10439.7
7.5°	9878.2	9863.9	9842.2	9891.5	9937.6
10°	8938.6	8922.7	8875.5	8898.8	8936.4
12.5°	7551.3	7499.9	7498.9	7573.0	7562.9
15°	5720.1	5651.3	5689.4	5670.9	5660.8
17.5°	3846.6	3820.1	3871.0	3855.6	3789.4
20°	2767.1	2774.0	2870.9	2822.2	2763.4
22.5°	2019.2	2044.1	2159.0	2033.5	1987.4
25°	1344.4	1395.2	1516.0	1359.7	1316.8
27.5°	826.8	850.2	972.5	816.3	792.9
30°	514.3	502.7	560.4	481.0	448.1
32.5°	337.4	322.6	341.1	306.2	279.7
35°	225.6	230.4	216.1	214.5	181.2
37.5°	140.9	162.1	143.0	152.6	116.5
40°	91.1	117.6	101.2	111.8	85.8
42.5°	74.7	90.6	83.2	88.5	76.3
45°	59.3	73.6	73.6	73.6	59.9
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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