

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: P749903

Luminaire Tested: LD4D55D010-EU4DR3055659030-4LBSQW1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P749903
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-EU4DR3055659030-4LBSQW1MW
Description: 4 INCH SQAURE DEEP 45° CUTOFF 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: 4492.2 lumens
Efficiency: N/A
Efficacy: 77.2 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

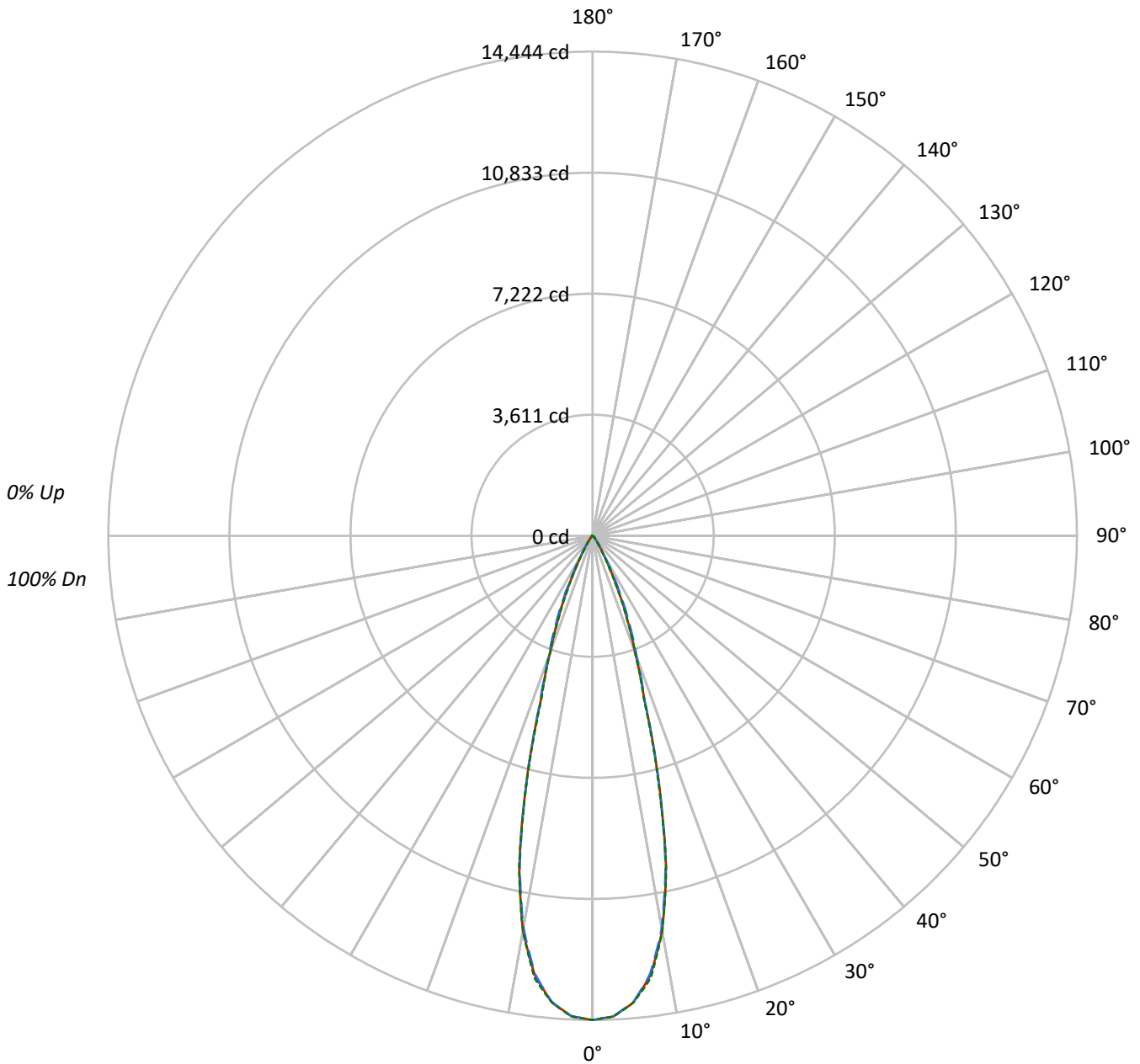
Input Watts (W): 58.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	1105631	1105631	1105631
5°	1073888	1072635	1073949
10°	930149	923597	929931
15°	606879	603622	600587
20°	301769	313092	301370
25°	152013	171421	148896
30°	60862	66315	53031
35°	28229	27033	22660
40°	12190	13539	11481
45°	8595	10673	8671
50°	2953	7764	3120
55°	1708	3216	1802
60°	1194	1408	1194
65°	779	779	779
70°	470	313	470
75°	0	207	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 10673 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1270.2	28.3
10°-20°	2045.6	45.5
20°-30°	884.0	19.7
30°-40°	201.5	4.5
40°-50°	69.2	1.5
50°-60°	16.9	0.4
60°-70°	4.4	0.1
70°-80°	0.5	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°	4199.8	93.5
0°-40°	4401.2	98.0
0°-60°	4487.3	99.9
0°-90°	4492.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4492.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	14444	14444	14444	14444	14444	
5°	13976	13963	13960	13989	13977	1271
15°	7658	7566	7617	7592	7579	2051
25°	1800	1868	2030	1820	1763	862
35°	302	308	289	287	242	205
45°	79	99	99	99	80	56
55°	13	14	24	14	14	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°	14444.5	14444.5	14444.5	14444.5	14444.5
2.5°	14348.8	14338.8	14344.5	14351.6	14354.4
5°	13976.4	13963.0	13960.1	13989.2	13977.2
7.5°	13225.4	13206.3	13177.2	13243.2	13304.9
10°	11967.3	11946.1	11883.0	11914.2	11964.5
12.5°	10110.0	10041.2	10039.8	10139.1	10125.6
15°	7658.4	7566.2	7617.3	7592.4	7579.0
17.5°	5150.0	5114.6	5182.7	5162.1	5073.4
20°	3704.7	3714.0	3843.7	3778.5	3699.8
22.5°	2703.4	2736.7	2890.6	2722.5	2660.8
25°	1799.9	1868.0	2029.7	1820.5	1763.0
27.5°	1107.0	1138.2	1302.0	1092.8	1061.6
30°	688.6	673.0	750.3	643.9	600.0
32.5°	451.7	431.9	456.7	409.9	374.4
35°	302.1	308.5	289.3	287.2	242.5
37.5°	188.6	217.0	191.5	204.2	156.0
40°	122.0	157.4	135.5	149.6	114.9
42.5°	100.0	121.3	111.3	118.4	102.1
45°	79.4	98.6	98.6	98.6	80.1
47.5°	44.0	66.0	84.4	67.4	46.8
50°	24.8	33.3	65.2	34.7	26.2
52.5°	17.0	19.1	44.7	19.9	17.7
55°	12.8	13.5	24.1	14.2	13.5
57.5°	9.9	10.6	12.8	10.6	9.9
60°	7.8	7.8	9.2	8.5	7.8
62.5°	5.7	5.7	6.4	5.7	5.7
65°	4.3	4.3	4.3	4.3	4.3
67.5°	2.1	2.8	2.8	2.8	2.8
70°	2.1	1.4	1.4	1.4	2.1
72.5°	1.4	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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— 0°-180° - - 45°-225° - - - - 90°-270°

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