

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: P750695

Luminaire Tested: LD4D60D010-EU4DR3055659035-4LBSQW1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P750695
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: LD4D60D010-EU4DR3055659035-4LBSQW1B
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4508.7 lumens
Efficiency: N/A
Efficacy: 70.0 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

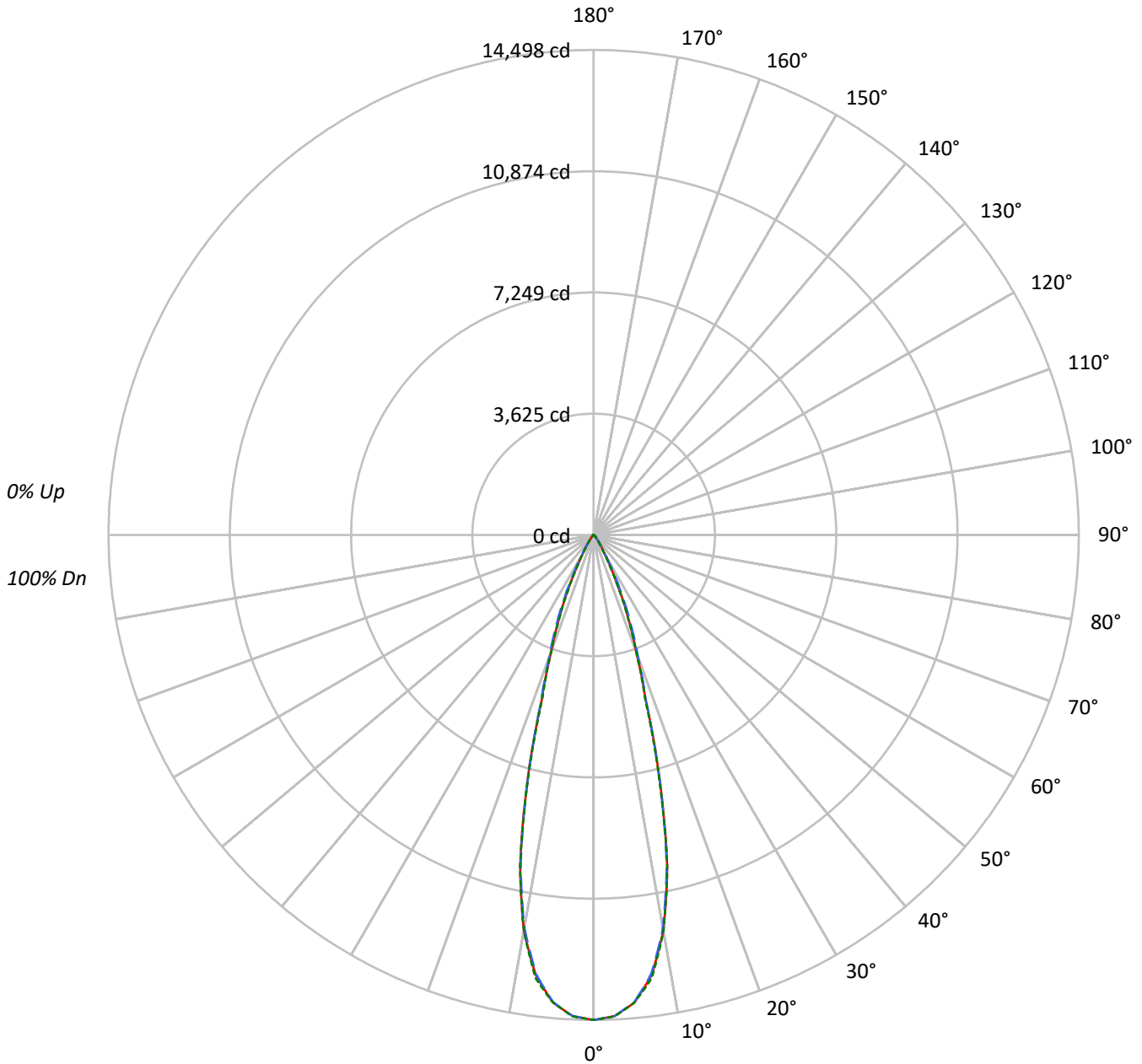
Input Watts (W): 64.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	1109711	1109711	1109711
5°	1077860	1076600	1077914
10°	933584	927001	933367
15°	609121	605849	602806
20°	302885	314248	302478
25°	152570	172054	149445
30°	61092	66563	53225
35°	28332	27136	22744
40°	12230	13589	11521
45°	8627	10706	8703
50°	2965	7800	3132
55°	1708	3229	1802
60°	1194	1424	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: 10706 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1274.9	28.3
10°-20°	2053.2	45.5
20°-30°	887.2	19.7
30°-40°	202.2	4.5
40°-50°	69.4	1.5
50°-60°	17.0	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°	4215.3	93.5
0°-40°	4417.5	98.0
0°-60°	4503.9	99.9
0°-90°	4508.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4508.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	14498	14498	14498	14498	14498	
5°	14028	14014	14012	14041	14029	1276
15°	7687	7594	7645	7620	7607	2058
25°	1806	1875	2037	1827	1770	865
35°	303	310	290	288	243	206
45°	80	99	99	99	80	57
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	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	14497.8	14497.8	14497.8	14497.8	14497.8
2.5°	14401.7	14391.8	14397.5	14404.6	14407.4
5°	14028.1	14014.5	14011.7	14040.9	14028.8
7.5°	13274.3	13255.0	13225.9	13292.1	13354.0
10°	12011.5	11990.2	11926.8	11958.2	12008.7
12.5°	10147.3	10078.3	10076.9	10176.5	10163.0
15°	7686.7	7594.1	7645.4	7620.5	7607.0
17.5°	5169.1	5133.5	5201.8	5181.2	5092.2
20°	3718.4	3727.7	3857.9	3792.4	3713.4
22.5°	2713.4	2746.8	2901.3	2732.6	2670.7
25°	1806.5	1874.9	2037.2	1827.2	1769.5
27.5°	1111.1	1142.4	1306.9	1096.9	1065.6
30°	691.2	675.5	753.1	646.3	602.2
32.5°	453.4	433.5	458.4	411.4	375.8
35°	303.2	309.6	290.4	288.3	243.4
37.5°	189.3	217.8	192.2	205.0	156.6
40°	122.4	158.0	136.0	150.2	115.3
42.5°	100.4	121.7	111.8	118.9	102.5
45°	79.7	98.9	98.9	98.9	80.4
47.5°	44.1	66.2	84.7	67.6	47.0
50°	24.9	33.5	65.5	34.9	26.3
52.5°	17.1	19.2	44.8	19.9	17.8
55°	12.8	13.5	24.2	14.2	13.5
57.5°	10.0	10.7	12.8	10.7	10.0
60°	7.8	7.8	9.3	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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