

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: P749902

Luminaire Tested: LD4D55D010-EU4DR3055659030-4LBSQW1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P749902
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-EU4DR3055659030-4LBSQW1B
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4057.4 lumens
Efficiency: N/A
Efficacy: 69.7 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

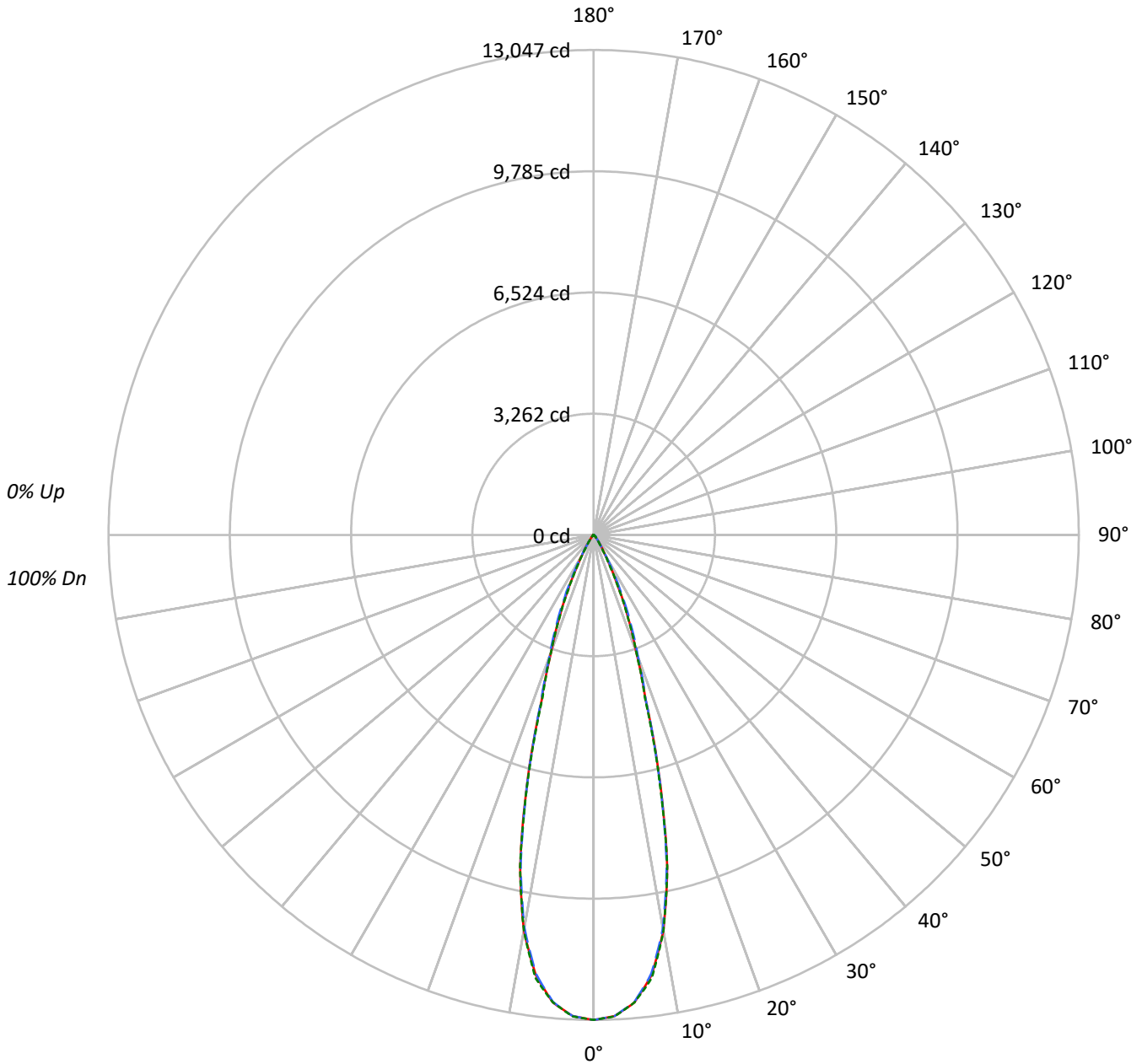
Input Watts (W): 58.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	998639	998639	998639
5°	969975	968838	970021
10°	840144	834222	839942
15°	548151	545204	542470
20°	272567	282798	272201
25°	137301	154834	134488
30°	54975	59898	47896
35°	25500	24416	20473
40°	11011	12220	10372
45°	7761	9634	7837
50°	2667	7014	2822
55°	1535	2909	1628
60°	1072	1271	1072
65°	688	688	688
70°	425	291	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: 9634 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1147.3	28.3
10°-20°	1847.7	45.5
20°-30°	798.4	19.7
30°-40°	182.0	4.5
40°-50°	62.5	1.5
50°-60°	15.3	0.4
60°-70°	3.9	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°	3793.4	93.5
0°-40°	3975.3	98.0
0°-60°	4053.1	99.9
0°-90°	4057.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4057.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13047	13047	13047	13047	13047	
5°	12624	12612	12609	12636	12625	1148
15°	6917	6834	6880	6858	6846	1852
25°	1626	1687	1833	1644	1592	778
35°	273	279	261	259	219	185
45°	72	89	89	89	72	51
55°	12	12	22	13	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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	13046.7	13046.7	13046.7	13046.7	13046.7
2.5°	12960.2	12951.3	12956.4	12962.8	12965.4
5°	12624.0	12611.8	12609.2	12635.5	12624.6
7.5°	11945.6	11928.3	11902.1	11961.6	12017.4
10°	10809.3	10790.1	10733.1	10761.2	10806.7
12.5°	9131.7	9069.5	9068.3	9157.9	9145.8
15°	6917.3	6834.0	6880.1	6857.7	6845.6
17.5°	4651.7	4619.6	4681.1	4662.6	4582.5
20°	3346.2	3354.6	3471.8	3412.9	3341.7
22.5°	2441.8	2471.9	2610.9	2459.1	2403.3
25°	1625.7	1687.2	1833.3	1644.3	1592.4
27.5°	999.9	1028.1	1176.0	987.1	958.9
30°	622.0	607.9	677.7	581.6	541.9
32.5°	408.0	390.1	412.5	370.2	338.2
35°	272.9	278.6	261.3	259.4	219.1
37.5°	170.4	196.0	172.9	184.5	140.9
40°	110.2	142.2	122.3	135.2	103.8
42.5°	90.3	109.5	100.6	107.0	92.2
45°	71.7	89.0	89.0	89.0	72.4
47.5°	39.7	59.6	76.2	60.9	42.3
50°	22.4	30.1	58.9	31.4	23.7
52.5°	15.4	17.3	40.4	17.9	16.0
55°	11.5	12.2	21.8	12.8	12.2
57.5°	9.0	9.6	11.5	9.6	9.0
60°	7.0	7.0	8.3	7.7	7.0
62.5°	5.1	5.1	5.8	5.1	5.1
65°	3.8	3.8	3.8	3.8	3.8
67.5°	1.9	2.6	2.6	2.6	2.6
70°	1.9	1.3	1.3	1.3	1.9
72.5°	1.3	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

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Scaled Data Report





— 0°-180° - - 45°-225° - - - - 90°-270°

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