

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: P749941

Luminaire Tested: LD4D55D010-EU4DR3055659050-4LBSQW1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P749941
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-EU4DR3055659050-4LBSQW1B
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4322.6 lumens
Efficiency: N/A
Efficacy: 74.3 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

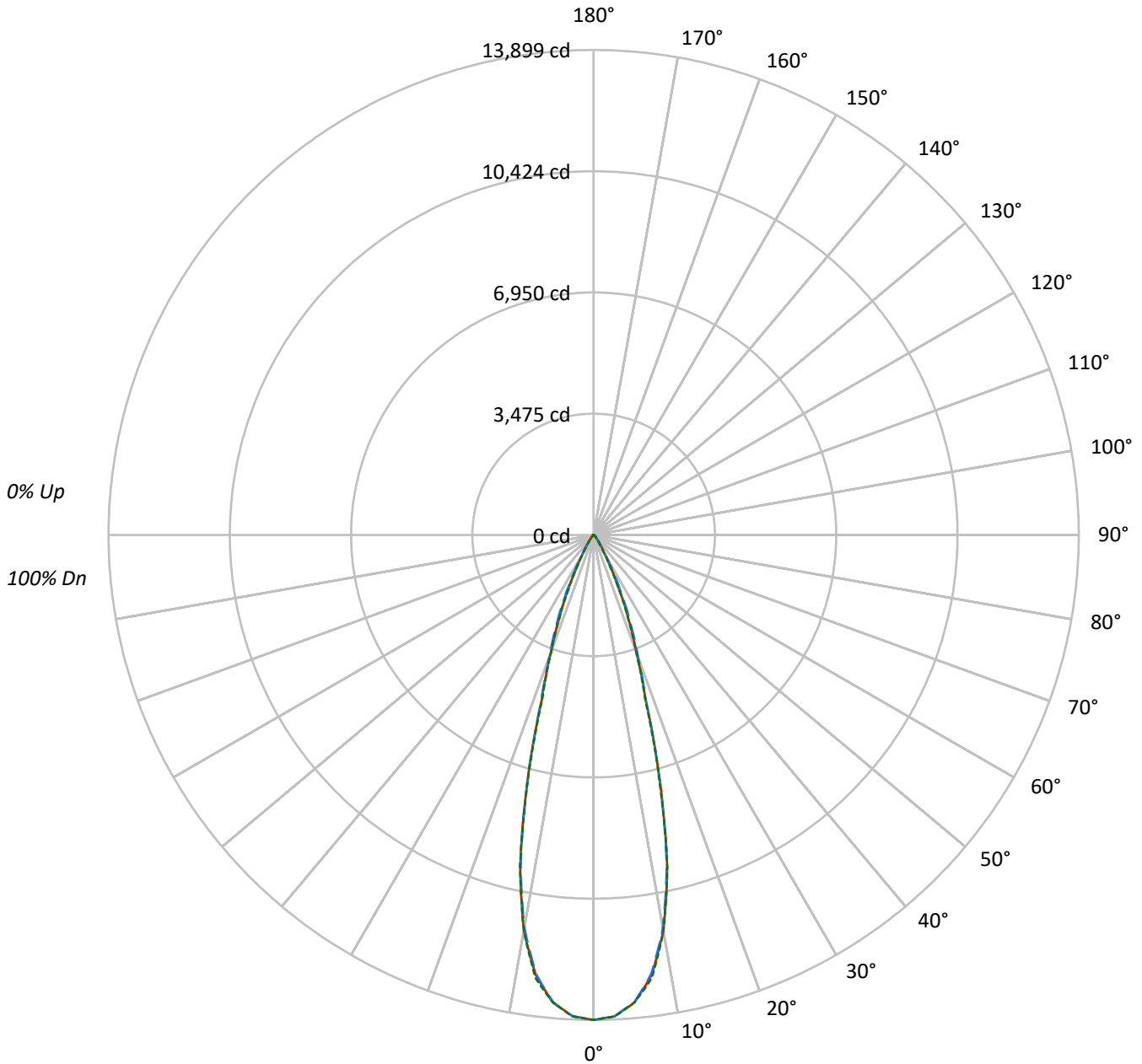
Input Watts (W): 58.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	1063884	1063884	1063884
5°	1033341	1032135	1033395
10°	895033	888722	894823
15°	583962	580831	577907
20°	290382	301272	289991
25°	146270	164943	143272
30°	58564	63814	51024
35°	27164	26014	21809
40°	11731	13020	11041
45°	8270	10273	8346
50°	2846	7478	3001
55°	1641	3096	1735
60°	1148	1362	1148
65°	743	743	743
70°	448	313	448
75°	0	207	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 10273 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1222.2	28.3
10°-20°	1968.4	45.5
20°-30°	850.6	19.7
30°-40°	193.9	4.5
40°-50°	66.6	1.5
50°-60°	16.3	0.4
60°-70°	4.2	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°	4041.2	93.5
0°-40°	4235.1	98.0
0°-60°	4317.9	99.9
0°-90°	4322.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4322.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13899	13899	13899	13899	13899	
5°	13449	13436	13433	13461	13449	1223
15°	7369	7280	7330	7306	7293	1973
25°	1732	1797	1953	1752	1696	829
35°	291	297	278	276	233	197
45°	76	95	95	95	77	54
55°	12	13	23	14	13	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°	13899.1	13899.1	13899.1	13899.1	13899.1
2.5°	13807.0	13797.4	13802.9	13809.7	13812.4
5°	13448.7	13435.8	13433.0	13461.0	13449.4
7.5°	12726.1	12707.6	12679.7	12743.1	12802.5
10°	11515.5	11495.0	11434.3	11464.3	11512.8
12.5°	9728.3	9662.1	9660.7	9756.3	9743.3
15°	7369.2	7280.5	7329.7	7305.8	7292.8
17.5°	4955.6	4921.5	4987.0	4967.2	4881.9
20°	3564.9	3573.7	3698.6	3635.8	3560.1
22.5°	2601.3	2633.4	2781.5	2619.7	2560.4
25°	1731.9	1797.4	1953.0	1751.7	1696.4
27.5°	1065.2	1095.3	1252.9	1051.6	1021.6
30°	662.6	647.6	722.0	619.6	577.3
32.5°	434.7	415.6	439.5	394.4	360.3
35°	290.7	296.8	278.4	276.4	233.4
37.5°	181.5	208.8	184.2	196.5	150.1
40°	117.4	151.5	130.3	144.0	110.5
42.5°	96.2	116.7	107.1	114.0	98.3
45°	76.4	94.9	94.9	94.9	77.1
47.5°	42.3	63.5	81.2	64.8	45.0
50°	23.9	32.1	62.8	33.4	25.2
52.5°	16.4	18.4	43.0	19.1	17.1
55°	12.3	13.0	23.2	13.6	13.0
57.5°	9.6	10.2	12.3	10.2	9.6
60°	7.5	7.5	8.9	8.2	7.5
62.5°	5.5	5.5	6.1	5.5	5.5
65°	4.1	4.1	4.1	4.1	4.1
67.5°	2.0	2.7	2.7	2.7	2.7
70°	2.0	1.4	1.4	1.4	2.0
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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Scaled Data Report





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

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