

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: P750682

Luminaire Tested: LD4D60D010-EU4DR3055659030-4LBSQW1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P750682
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-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: 4461.7 lumens
Efficiency: N/A
Efficacy: 69.3 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

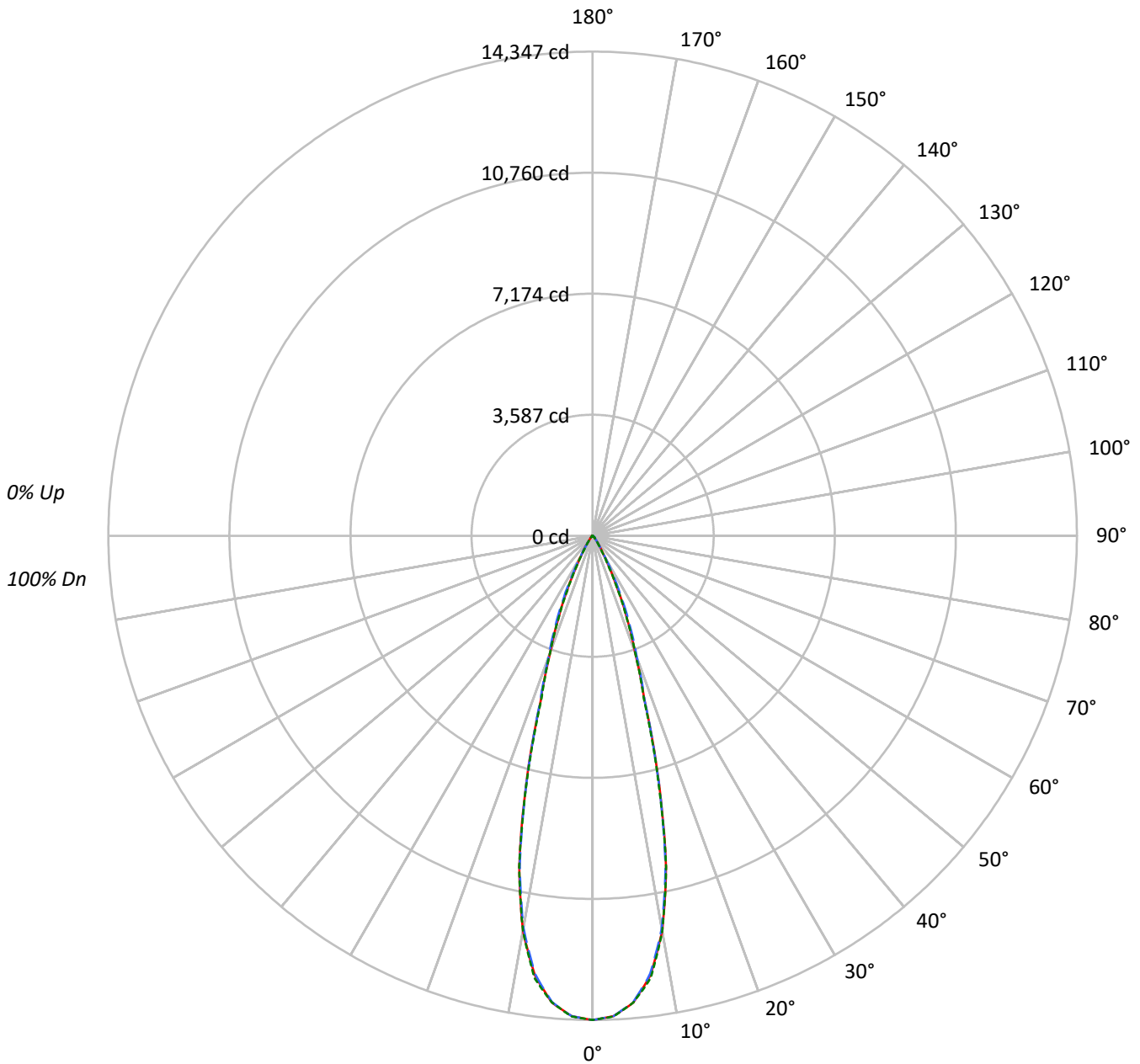
Input Watts (W): 64.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	1098145	1098145	1098145
5°	1066619	1065374	1066673
10°	923853	917340	923636
15°	602774	599533	596522
20°	299733	310974	299326
25°	150983	170255	147891
30°	60446	65864	52668
35°	28042	26855	22510
40°	12110	13439	11401
45°	8541	10598	8617
50°	2941	7716	3108
55°	1695	3189	1788
60°	1179	1408	1179
65°	761	761	761
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: 10598 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1261.6	28.3
10°-20°	2031.8	45.5
20°-30°	878.0	19.7
30°-40°	200.1	4.5
40°-50°	68.7	1.5
50°-60°	16.8	0.4
60°-70°	4.3	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°	4171.3	93.5
0°-40°	4371.5	98.0
0°-60°	4456.9	99.9
0°-90°	4461.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4461.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	14347	14347	14347	14347	14347	
5°	13882	13868	13866	13894	13882	1263
15°	7607	7515	7566	7541	7528	2037
25°	1788	1855	2016	1808	1751	856
35°	300	306	287	285	241	204
45°	79	98	98	98	80	56
55°	13	13	24	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°	14346.7	14346.7	14346.7	14346.7	14346.7
2.5°	14251.6	14241.8	14247.4	14254.4	14257.3
5°	13881.8	13868.4	13865.6	13894.5	13882.5
7.5°	13135.9	13116.9	13088.0	13153.5	13214.8
10°	11886.3	11865.2	11802.5	11833.5	11883.5
12.5°	10041.6	9973.3	9971.8	10070.5	10057.1
15°	7606.6	7515.0	7565.7	7541.0	7527.7
17.5°	5115.2	5080.0	5147.6	5127.1	5039.1
20°	3679.7	3688.8	3817.7	3752.9	3674.7
22.5°	2685.1	2718.2	2871.0	2704.1	2642.8
25°	1787.7	1855.3	2015.9	1808.1	1751.1
27.5°	1099.5	1130.5	1293.2	1085.4	1054.5
30°	683.9	668.5	745.2	639.6	595.9
32.5°	448.7	429.0	453.6	407.1	371.9
35°	300.1	306.4	287.4	285.3	240.9
37.5°	187.4	215.5	190.2	202.9	155.0
40°	121.2	156.4	134.5	148.6	114.1
42.5°	99.3	120.4	110.6	117.6	101.4
45°	78.9	97.9	97.9	97.9	79.6
47.5°	43.7	65.5	83.8	66.9	46.5
50°	24.7	33.1	64.8	34.5	26.1
52.5°	16.9	19.0	44.4	19.7	17.6
55°	12.7	13.4	23.9	14.1	13.4
57.5°	9.9	10.6	12.7	10.6	9.9
60°	7.7	7.7	9.2	8.5	7.7
62.5°	5.6	5.6	6.3	5.6	5.6
65°	4.2	4.2	4.2	4.2	4.2
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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Scaled Data Report





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

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