

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: P749122

Luminaire Tested: LD4D50D010-EU4DR3040509030-4LBSQW1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P749122
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: LD4D50D010-EU4DR3040509030-4LBSQW1B
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: 3588.8 lumens
Efficiency: N/A
Efficacy: 76.4 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

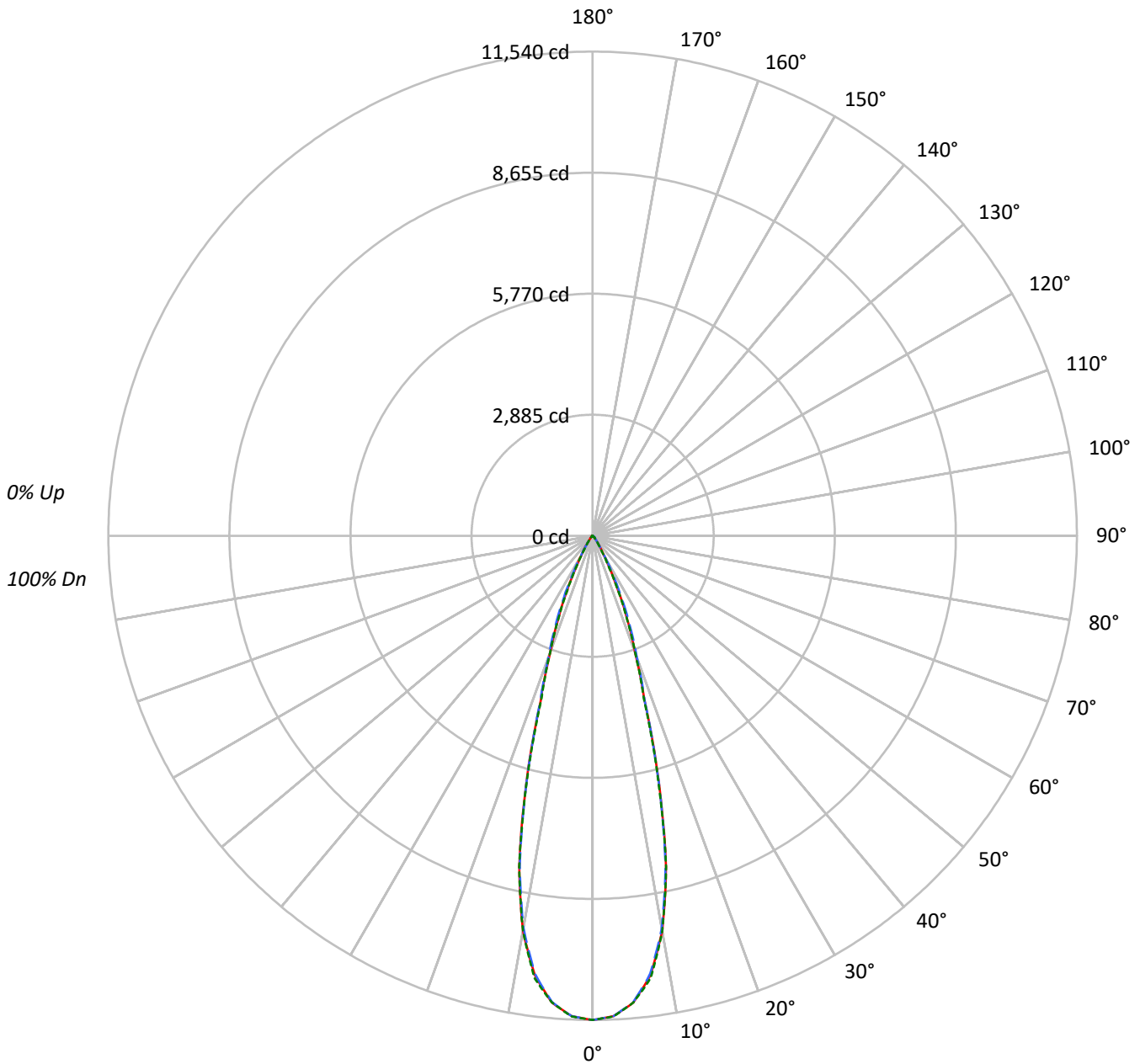
Input Watts (W): 47
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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					70					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	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°	883280	883280	883280
5°	857925	856926	857971
10°	743098	737851	742919
15°	484836	482229	479804
20°	241085	250126	240759
25°	121440	136946	118957
30°	48620	52978	42363
35°	22557	21604	18109
40°	9732	10811	9173
45°	6874	8530	6928
50°	2358	6204	2501
55°	1361	2576	1441
60°	949	1133	949
65°	616	616	616
70°	380	246	380
75°	0	177	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 8530 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1014.7	28.3
10°-20°	1634.2	45.5
20°-30°	706.2	19.7
30°-40°	161.0	4.5
40°-50°	55.3	1.5
50°-60°	13.5	0.4
60°-70°	3.5	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°	3355.2	93.5
0°-40°	3516.1	98.0
0°-60°	3584.9	99.9
0°-90°	3588.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3588.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11540	11540	11540	11540	11540	
5°	11166	11155	11153	11176	11166	1016
15°	6118	6045	6085	6066	6055	1638
25°	1438	1492	1622	1454	1408	688
35°	241	246	231	230	194	164
45°	64	79	79	79	64	45
55°	10	11	19	11	11	10
65°	3	3	3	3	3	3
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°	11539.6	11539.6	11539.6	11539.6	11539.6
2.5°	11463.2	11455.2	11459.8	11465.4	11467.7
5°	11165.7	11155.0	11152.7	11175.9	11166.3
7.5°	10565.7	10550.4	10527.2	10579.9	10629.2
10°	9560.7	9543.7	9493.2	9518.2	9558.4
12.5°	8076.8	8021.9	8020.8	8100.1	8089.3
15°	6118.3	6044.6	6085.4	6065.6	6054.8
17.5°	4114.3	4086.0	4140.4	4124.0	4053.2
20°	2959.7	2967.1	3070.7	3018.6	2955.7
22.5°	2159.7	2186.3	2309.3	2175.0	2125.7
25°	1437.9	1492.3	1621.5	1454.4	1408.5
27.5°	884.4	909.3	1040.2	873.1	848.1
30°	550.1	537.7	599.4	514.4	479.3
32.5°	360.9	345.0	364.9	327.5	299.1
35°	241.4	246.5	231.2	229.5	193.8
37.5°	150.7	173.4	153.0	163.2	124.6
40°	97.4	125.8	108.2	119.5	91.8
42.5°	79.9	96.9	88.9	94.6	81.6
45°	63.5	78.8	78.8	78.8	64.0
47.5°	35.1	52.7	67.4	53.8	37.4
50°	19.8	26.6	52.1	27.8	21.0
52.5°	13.6	15.3	35.7	15.9	14.2
55°	10.2	10.8	19.3	11.3	10.8
57.5°	7.9	8.5	10.2	8.5	7.9
60°	6.2	6.2	7.4	6.8	6.2
62.5°	4.5	4.5	5.1	4.5	4.5
65°	3.4	3.4	3.4	3.4	3.4
67.5°	1.7	2.3	2.3	2.3	2.3
70°	1.7	1.1	1.1	1.1	1.7
72.5°	1.1	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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