

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: P749113

Luminaire Tested: LD4D50D010-EU4DR3040509030-4LBCSSQMW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P749113
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-EU4DR3040509030-4LBCSSQMW
Description: 4 INCH SQAURE SHALLOW CAST MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4316.3 lumens
Efficiency: N/A
Efficacy: 91.8 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

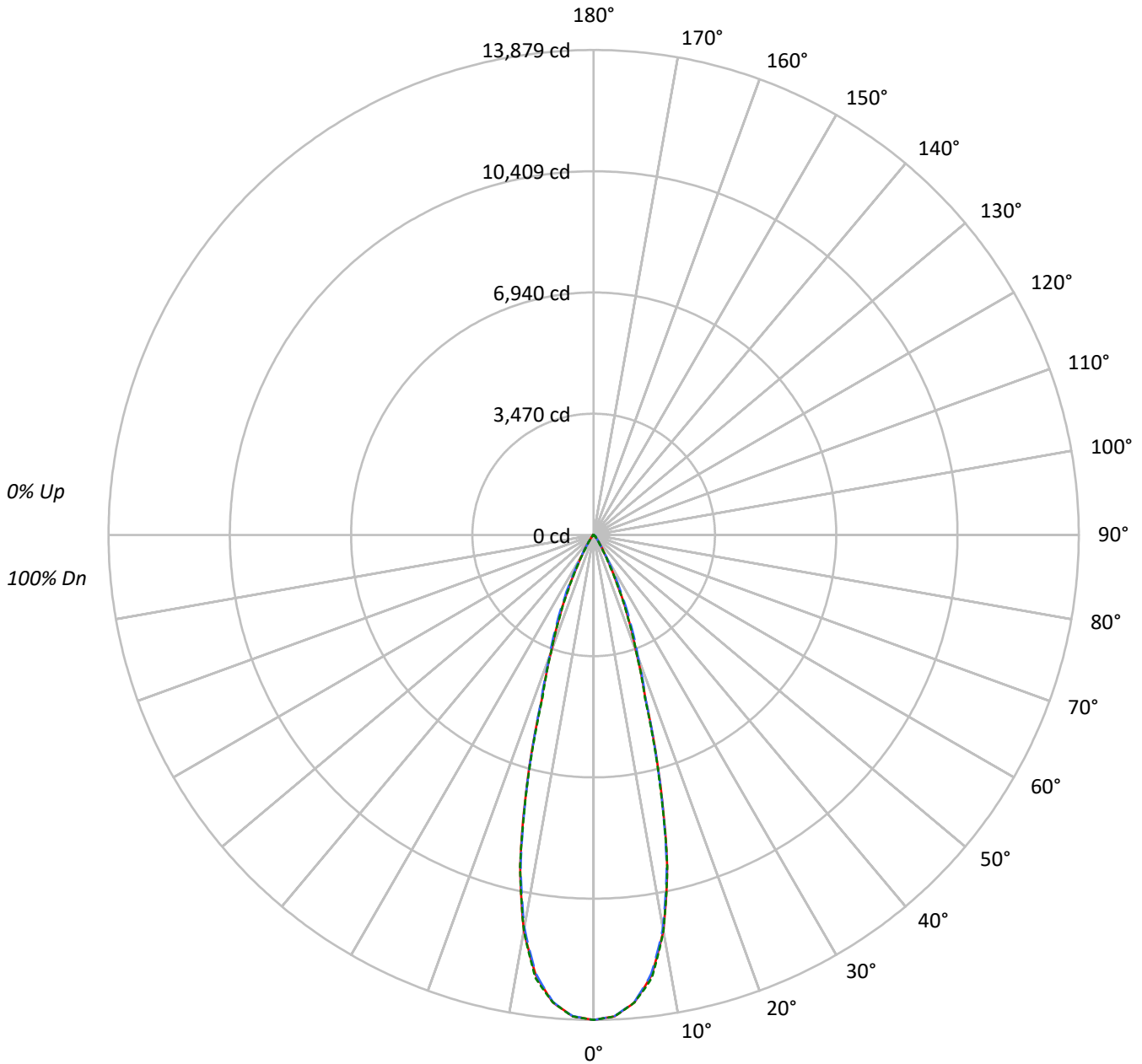
Input Watts (W): 47
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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									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°	1062346	1062346	1062346
5°	1031851	1030644	1031905
10°	893743	887439	893525
15°	583122	579992	577075
20°	289958	300841	289567
25°	146059	164707	143069
30°	58484	63717	50954
35°	27126	25977	21772
40°	11711	13000	11031
45°	8259	10251	8335
50°	2834	7466	3001
55°	1641	3096	1721
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: 10251 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1220.5	28.3
10°-20°	1965.5	45.5
20°-30°	849.4	19.7
30°-40°	193.6	4.5
40°-50°	66.5	1.5
50°-60°	16.2	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°	4035.4	93.5
0°-40°	4229.0	98.0
0°-60°	4311.7	99.9
0°-90°	4316.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4316.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13879	13879	13879	13879	13879	
5°	13429	13416	13414	13442	13430	1221
15°	7359	7270	7319	7295	7282	1970
25°	1729	1795	1950	1749	1694	828
35°	290	296	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°	13879.0	13879.0	13879.0	13879.0	13879.0
2.5°	13787.0	13777.5	13783.0	13789.8	13792.5
5°	13429.3	13416.4	13413.6	13441.6	13430.0
7.5°	12707.7	12689.3	12661.3	12724.7	12784.0
10°	11498.9	11478.4	11417.8	11447.7	11496.1
12.5°	9714.2	9648.1	9646.8	9742.2	9729.2
15°	7358.6	7270.0	7319.1	7295.2	7282.3
17.5°	4948.4	4914.4	4979.8	4960.0	4874.8
20°	3559.7	3568.6	3693.3	3630.6	3554.9
22.5°	2597.5	2629.6	2777.4	2615.9	2556.7
25°	1729.4	1794.8	1950.2	1749.2	1694.0
27.5°	1063.7	1093.7	1251.1	1050.1	1020.1
30°	661.7	646.7	720.9	618.7	576.5
32.5°	434.1	415.0	438.8	393.9	359.8
35°	290.3	296.4	278.0	276.0	233.0
37.5°	181.3	208.5	184.0	196.2	149.9
40°	117.2	151.3	130.1	143.8	110.4
42.5°	96.1	116.5	107.0	113.8	98.1
45°	76.3	94.7	94.7	94.7	77.0
47.5°	42.2	63.4	81.1	64.7	45.0
50°	23.8	32.0	62.7	33.4	25.2
52.5°	16.4	18.4	42.9	19.1	17.0
55°	12.3	12.9	23.2	13.6	12.9
57.5°	9.5	10.2	12.3	10.2	9.5
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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— 0°-180° - - 45°-225° - - - - 90°-270°

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