

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: P749110

Luminaire Tested: LD4D50D010-EU4DR3040509027-4LBSQW1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P749110
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-EU4DR3040509027-4LBSQW1MW
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3856.7 lumens
Efficiency: N/A
Efficacy: 82.1 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

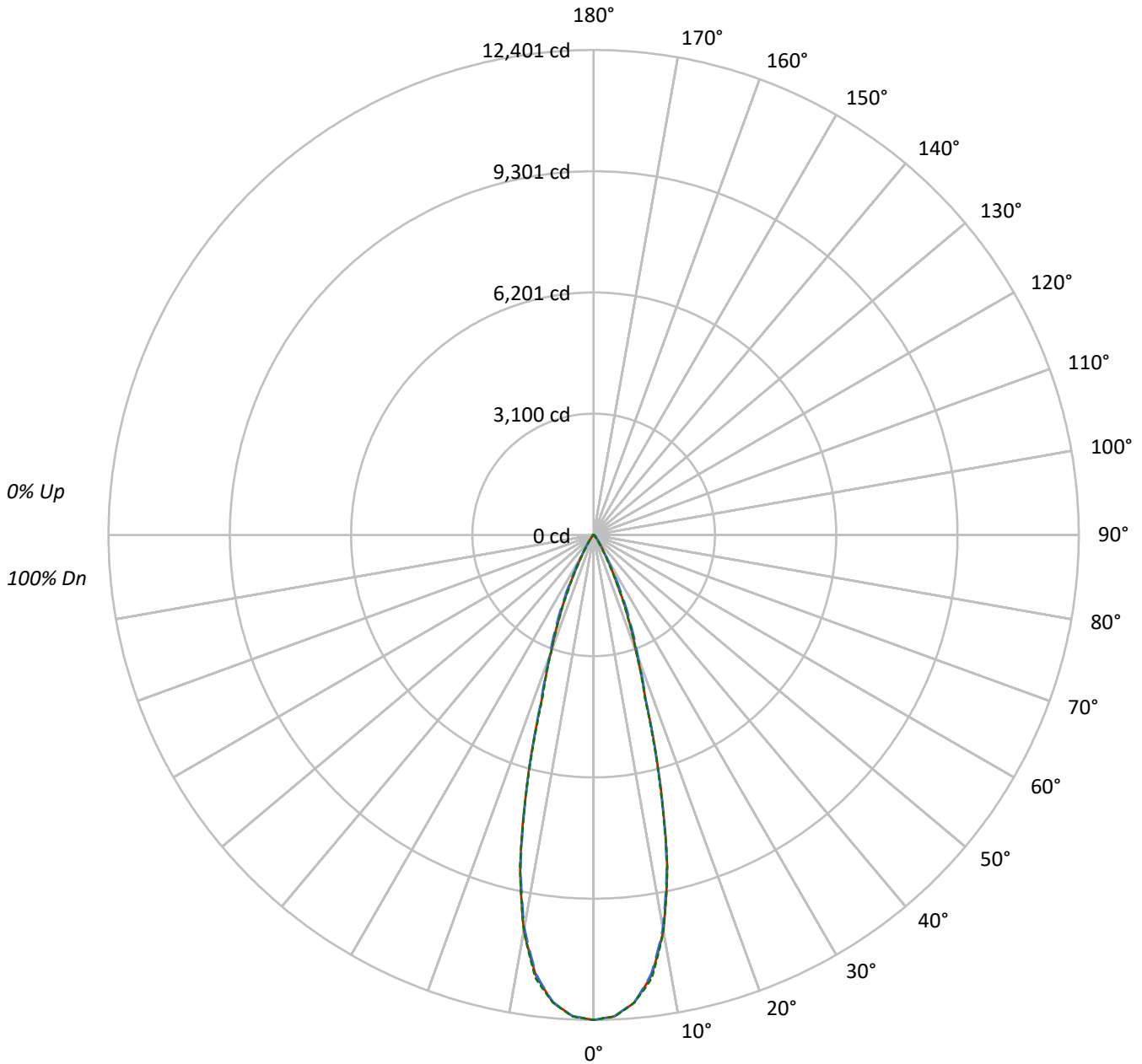
Input Watts (W): 47
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	949230	949230	949230
5°	921983	920908	922029
10°	798577	792942	798383
15°	521026	518229	515630
20°	259086	268804	258736
25°	130510	147165	127833
30°	52253	56937	45527
35°	24239	23211	19455
40°	10462	11621	9852
45°	7383	9158	7448
50°	2536	6669	2679
55°	1468	2762	1548
60°	1026	1209	1026
65°	670	670	670
70°	403	269	403
75°	0	177	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 9158 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1090.5	28.3
10°-20°	1756.3	45.5
20°-30°	758.9	19.7
30°-40°	173.0	4.5
40°-50°	59.4	1.5
50°-60°	14.5	0.4
60°-70°	3.8	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°	3605.7	93.5
0°-40°	3778.7	98.0
0°-60°	3852.5	99.9
0°-90°	3856.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3856.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12401	12401	12401	12401	12401	
5°	11999	11988	11985	12010	12000	1091
15°	6575	6496	6540	6518	6507	1761
25°	1545	1604	1742	1563	1514	740
35°	259	265	248	247	208	176
45°	68	85	85	85	69	48
55°	11	12	21	12	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	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	12401.2	12401.2	12401.2	12401.2	12401.2
2.5°	12319.0	12310.5	12315.4	12321.4	12323.9
5°	11999.4	11987.8	11985.4	12010.3	12000.0
7.5°	11354.6	11338.1	11313.2	11369.8	11422.8
10°	10274.5	10256.2	10202.0	10228.8	10272.0
12.5°	8679.9	8620.8	8619.6	8704.8	8693.3
15°	6575.0	6495.9	6539.7	6518.4	6506.9
17.5°	4421.5	4391.1	4449.5	4431.9	4355.8
20°	3180.7	3188.6	3300.0	3244.0	3176.4
22.5°	2321.0	2349.6	2481.7	2337.4	2284.4
25°	1545.3	1603.7	1742.5	1562.9	1513.6
27.5°	950.4	977.2	1117.9	938.2	911.5
30°	591.2	577.8	644.2	552.8	515.1
32.5°	387.8	370.8	392.1	351.9	321.5
35°	259.4	264.9	248.4	246.6	208.2
37.5°	162.0	186.3	164.4	175.4	133.9
40°	104.7	135.2	116.3	128.5	98.6
42.5°	85.8	104.1	95.6	101.7	87.7
45°	68.2	84.6	84.6	84.6	68.8
47.5°	37.7	56.6	72.5	57.8	40.2
50°	21.3	28.6	56.0	29.8	22.5
52.5°	14.6	16.4	38.4	17.0	15.2
55°	11.0	11.6	20.7	12.2	11.6
57.5°	8.5	9.1	11.0	9.1	8.5
60°	6.7	6.7	7.9	7.3	6.7
62.5°	4.9	4.9	5.5	4.9	4.9
65°	3.7	3.7	3.7	3.7	3.7
67.5°	1.8	2.4	2.4	2.4	2.4
70°	1.8	1.2	1.2	1.2	1.8
72.5°	1.2	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

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



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Scaled Data Report





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

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