

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: P749099

Luminaire Tested: LD4D50D010-EU4DR3040509027-4LBCSSQMMS

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P749099
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-EU4DR3040509027-4LBCSSQMMS
Description: 4 INCH SQAURE SHALLOW CAST MATTE METALLIC SILVER TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4189.0 lumens
Efficiency: N/A
Efficacy: 89.1 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

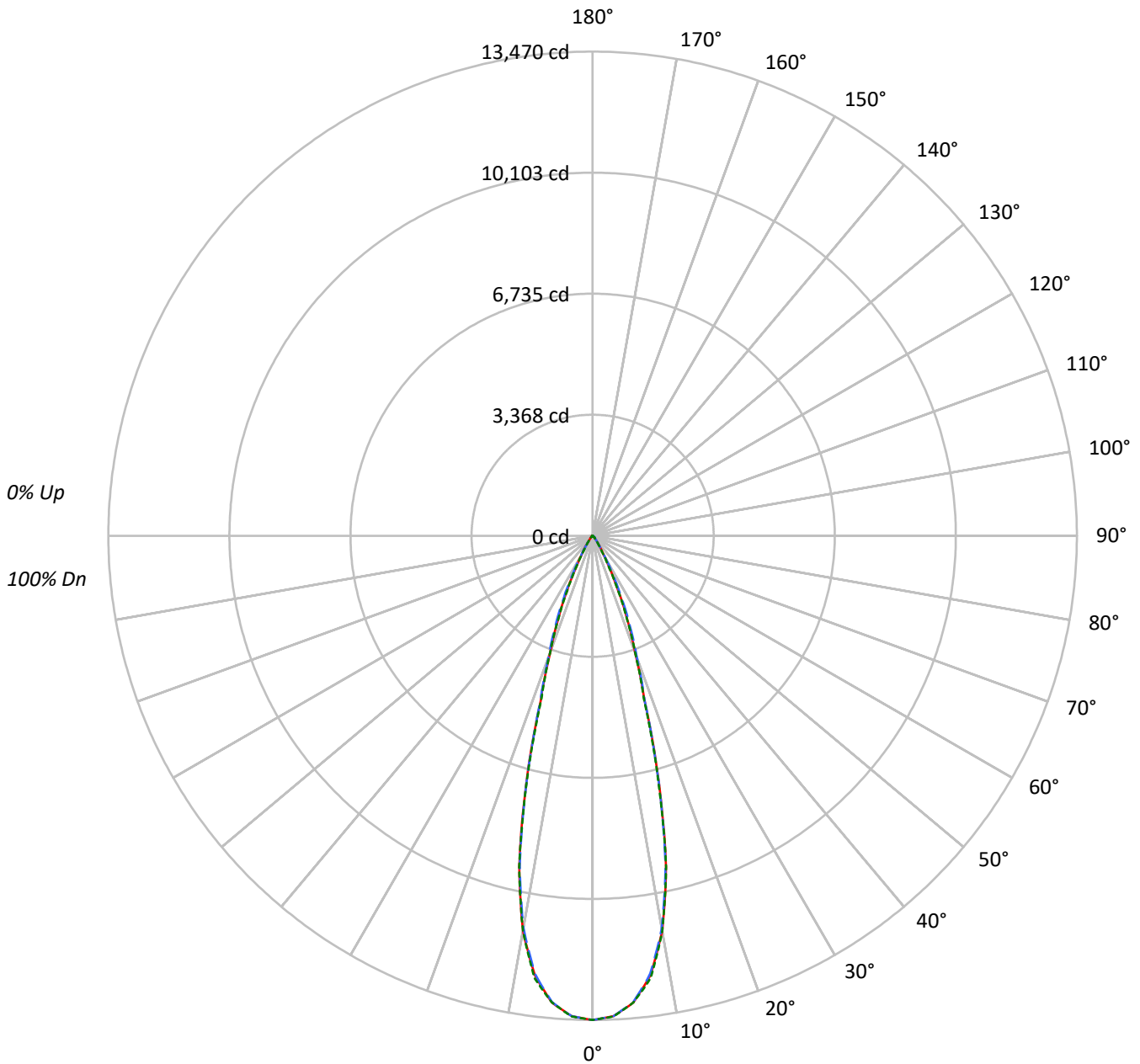
Input Watts (W): 47
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P749099

CATALOG NUMBER: LD4D50D010-EU4DR3040509027-4LBCSSQMMS

Luminous Intensity Polar Plot





TEST NUMBER: P749099

CATALOG NUMBER: LD4D50D010-EU4DR3040509027-4LBCSSQMMS

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°	1031024	1031024	1031024
5°	1001424	1000256	1001478
10°	867387	861270	867184
15°	565926	562891	560054
20°	281405	291970	281031
25°	141751	159850	138846
30°	56752	61843	49451
35°	26323	25211	21137
40°	11361	12620	10701
45°	8021	9948	8086
50°	2751	7240	2917
55°	1588	3003	1681
60°	1118	1317	1118
65°	724	724	724
70°	448	291	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: 9948 cd/sqm



TEST NUMBER: P749099

CATALOG NUMBER: LD4D50D010-EU4DR3040509027-4LBCSSQMMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1184.5	28.3
10°-20°	1907.6	45.5
20°-30°	824.3	19.7
30°-40°	187.9	4.5
40°-50°	64.5	1.5
50°-60°	15.8	0.4
60°-70°	4.1	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°	3916.4	93.5
0°-40°	4104.2	98.0
0°-60°	4184.5	99.9
0°-90°	4189.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4189.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13470	13470	13470	13470	13470	
5°	13033	13021	13018	13045	13034	1185
15°	7142	7056	7103	7080	7068	1912
25°	1678	1742	1893	1698	1644	803
35°	282	288	270	268	226	191
45°	74	92	92	92	75	53
55°	12	13	22	13	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



TEST NUMBER: P749099

CATALOG NUMBER: LD4D50D010-EU4DR3040509027-4LBCSSQMMS

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	13469.8	13469.8	13469.8	13469.8	13469.8
2.5°	13380.5	13371.3	13376.5	13383.2	13385.8
5°	13033.3	13020.8	13018.1	13045.2	13034.0
7.5°	12333.0	12315.1	12288.0	12349.5	12407.1
10°	11159.8	11140.0	11081.1	11110.2	11157.2
12.5°	9427.8	9363.6	9362.3	9454.9	9442.3
15°	7141.6	7055.6	7103.3	7080.1	7067.5
17.5°	4802.5	4769.4	4832.9	4813.8	4731.1
20°	3454.7	3463.3	3584.4	3523.5	3450.1
22.5°	2521.0	2552.0	2695.5	2538.8	2481.3
25°	1678.4	1741.9	1892.7	1697.6	1644.0
27.5°	1032.3	1061.4	1214.2	1019.1	990.0
30°	642.1	627.6	699.7	600.5	559.5
32.5°	421.3	402.7	425.9	382.2	349.2
35°	281.7	287.7	269.8	267.8	226.2
37.5°	175.9	202.4	178.6	190.5	145.5
40°	113.7	146.8	126.3	139.5	107.1
42.5°	93.2	113.1	103.8	110.4	95.2
45°	74.1	91.9	91.9	91.9	74.7
47.5°	41.0	61.5	78.7	62.8	43.6
50°	23.1	31.1	60.8	32.4	24.5
52.5°	15.9	17.9	41.7	18.5	16.5
55°	11.9	12.6	22.5	13.2	12.6
57.5°	9.3	9.9	11.9	9.9	9.3
60°	7.3	7.3	8.6	7.9	7.3
62.5°	5.3	5.3	6.0	5.3	5.3
65°	4.0	4.0	4.0	4.0	4.0
67.5°	2.0	2.6	2.6	2.6	2.6
70°	2.0	1.3	1.3	1.3	2.0
72.5°	1.3	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

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

Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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

Scaled Data Report





— 0°-180° - - 45°-225° - - - 90°-270°

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

Scaled Data Report



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

Scaled Data Report



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

Scaled Data Report



(END OF REPORT)