

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: P749100

Luminaire Tested: LD4D50D010-EU4DR3040509027-4LBCSSQMW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P749100
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-EU4DR3040509027-4LBCSSQMW
Description: 4 INCH SQAURE SHALLOW CAST 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: 4189.7 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

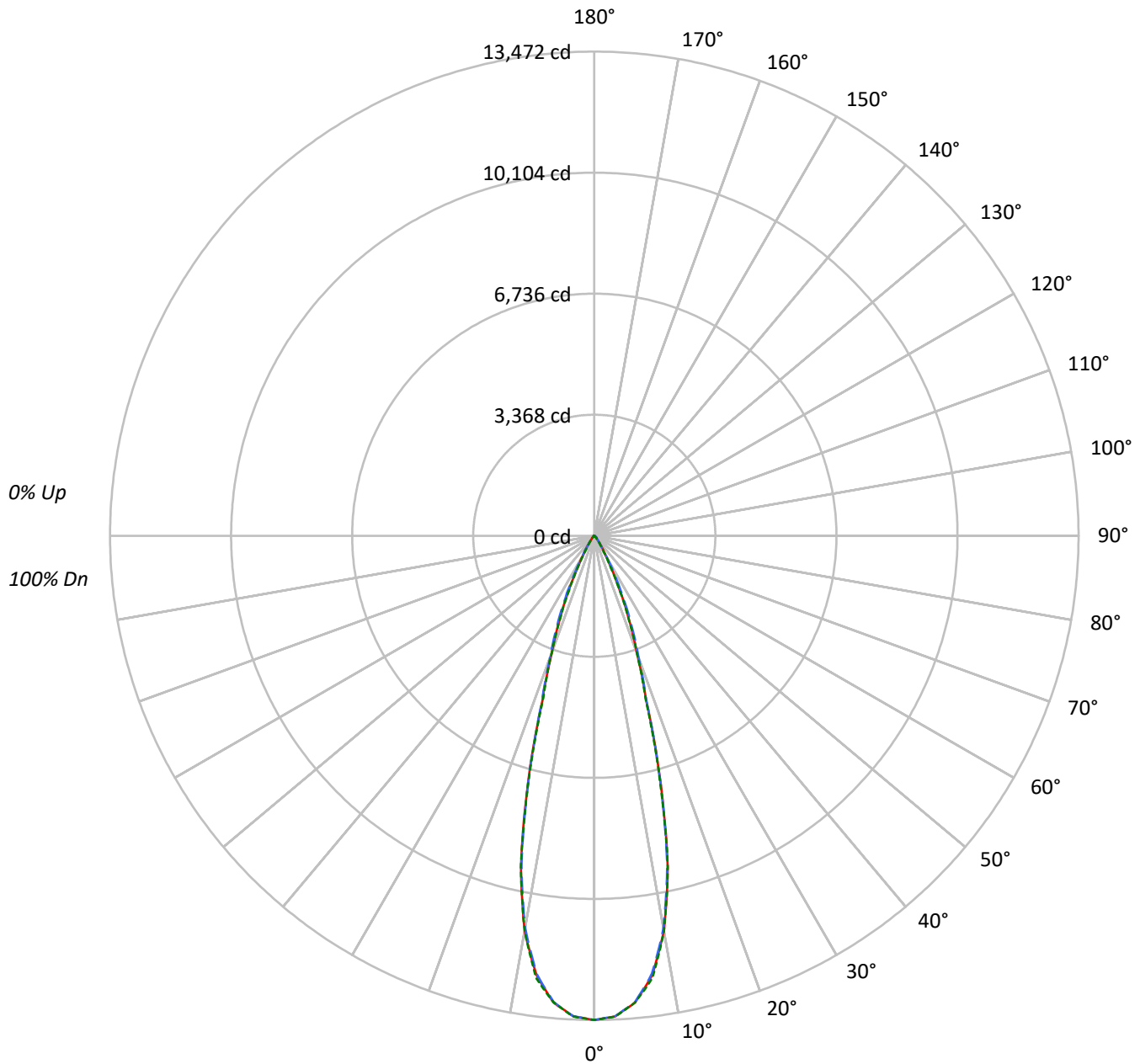
Input Watts (W): 47
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P749100

CATALOG NUMBER: LD4D50D010-EU4DR3040509027-4LBCSSQMW

Luminous Intensity Polar Plot



TEST NUMBER: P749100

CATALOG NUMBER: LD4D50D010-EU4DR3040509027-4LBCSSQMW

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1031185	1031185	1031185
5°	1001585	1000417	1001631
10°	867526	861402	867317
15°	566013	562978	560149
20°	281454	292011	281079
25°	141777	159876	138871
30°	56761	61852	49460
35°	26332	25220	21137
40°	11371	12620	10711
45°	8021	9948	8086
50°	2751	7252	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: P749100

CATALOG NUMBER: LD4D50D010-EU4DR3040509027-4LBCSSQMW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1184.7	28.3
10°-20°	1907.9	45.5
20°-30°	824.5	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°	3917.0	93.5
0°-40°	4104.9	98.0
0°-60°	4185.2	99.9
0°-90°	4189.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4189.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13472	13472	13472	13472	13472	
5°	13035	13023	13020	13047	13036	1186
15°	7143	7057	7104	7081	7069	1913
25°	1679	1742	1893	1698	1644	804
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	



TEST NUMBER: P749100

CATALOG NUMBER: LD4D50D010-EU4DR3040509027-4LBCSSQMW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	13471.9	13471.9	13471.9	13471.9	13471.9
2.5°	13382.6	13373.4	13378.7	13385.3	13387.9
5°	13035.4	13022.8	13020.2	13047.3	13036.0
7.5°	12334.9	12317.1	12289.9	12351.5	12409.0
10°	11161.6	11141.7	11082.8	11111.9	11158.9
12.5°	9429.3	9365.1	9363.8	9456.4	9443.8
15°	7142.7	7056.7	7104.4	7081.2	7068.7
17.5°	4803.3	4770.2	4833.7	4814.5	4731.8
20°	3455.3	3463.9	3584.9	3524.1	3450.7
22.5°	2521.4	2552.4	2696.0	2539.2	2481.7
25°	1678.7	1742.2	1893.0	1697.9	1644.3
27.5°	1032.5	1061.6	1214.4	1019.3	990.2
30°	642.2	627.7	699.8	600.6	559.6
32.5°	421.3	402.8	426.0	382.3	349.2
35°	281.8	287.7	269.9	267.9	226.2
37.5°	175.9	202.4	178.6	190.5	145.5
40°	113.8	146.8	126.3	139.6	107.2
42.5°	93.3	113.1	103.8	110.5	95.2
45°	74.1	91.9	91.9	91.9	74.7
47.5°	41.0	61.5	78.7	62.8	43.7
50°	23.1	31.1	60.9	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



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°







(END OF REPORT)