

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: P749136

Luminaire Tested: LD4D50D010-EU4DR3040509035-4LBSQW1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P749136
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-EU4DR3040509035-4LBSQW1MW
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4015.1 lumens
Efficiency: N/A
Efficacy: 85.4 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

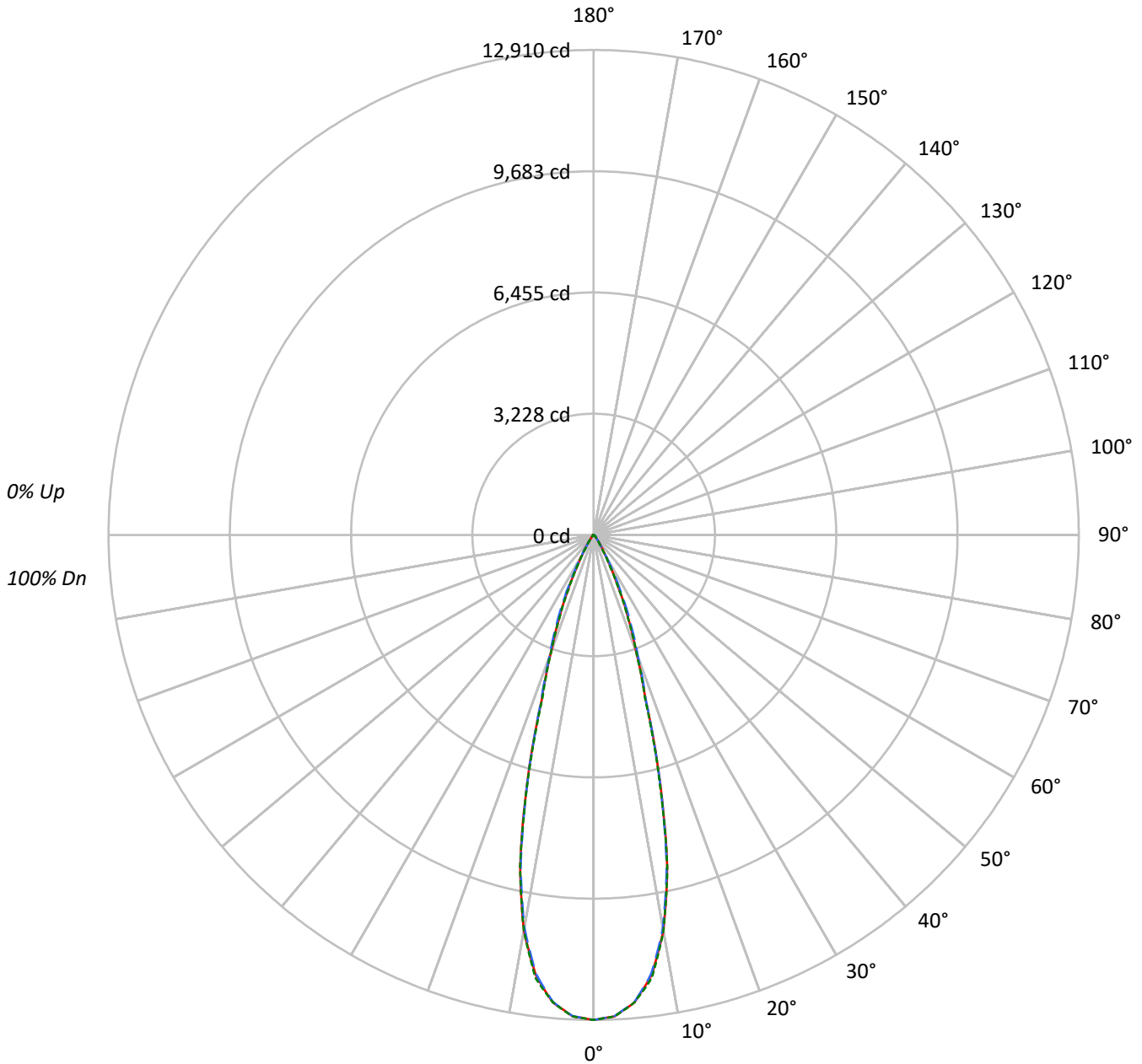
Input Watts (W): 47
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P749136

CATALOG NUMBER: LD4D50D010-EU4DR3040509035-4LBSQW1MW

Luminous Intensity Polar Plot





TEST NUMBER: P749136

CATALOG NUMBER: LD4D50D010-EU4DR3040509035-4LBSQW1MW

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	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°	988214	988214	988214
5°	959848	958726	959894
10°	831369	825509	831175
15°	542430	539514	536804
20°	269725	279841	269366
25°	135865	153212	133086
30°	54401	59271	47392
35°	25229	24164	20258
40°	10891	12100	10262
45°	7686	9537	7751
50°	2644	6942	2798
55°	1521	2883	1601
60°	1072	1255	1072
65°	688	688	688
70°	425	291	425
75°	0	177	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 9537 cd/sqm



TEST NUMBER: P749136

CATALOG NUMBER: LD4D50D010-EU4DR3040509035-4LBSQW1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1135.3	28.3
10°-20°	1828.4	45.5
20°-30°	790.1	19.7
30°-40°	180.1	4.5
40°-50°	61.8	1.5
50°-60°	15.1	0.4
60°-70°	3.9	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°	3753.8	93.5
0°-40°	3933.8	98.0
0°-60°	4010.8	99.9
0°-90°	4015.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4015.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12910	12910	12910	12910	12910	
5°	12492	12480	12478	12504	12493	1136
15°	6845	6763	6808	6786	6774	1833
25°	1609	1670	1814	1627	1576	770
35°	270	276	259	257	217	183
45°	71	88	88	88	72	50
55°	11	12	22	13	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



TEST NUMBER: P749136

CATALOG NUMBER: LD4D50D010-EU4DR3040509035-4LBSQW1MW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	12910.5	12910.5	12910.5	12910.5	12910.5
2.5°	12825.0	12816.1	12821.2	12827.5	12830.0
5°	12492.2	12480.1	12477.6	12503.6	12492.8
7.5°	11820.9	11803.8	11777.8	11836.8	11891.9
10°	10696.4	10677.4	10621.0	10648.9	10693.9
12.5°	9036.4	8974.9	8973.6	9062.3	9050.3
15°	6845.1	6762.7	6808.3	6786.1	6774.1
17.5°	4603.1	4571.4	4632.3	4613.9	4534.7
20°	3311.3	3319.5	3435.5	3377.2	3306.9
22.5°	2416.3	2446.1	2583.6	2433.4	2378.3
25°	1608.7	1669.6	1814.1	1627.1	1575.8
27.5°	989.5	1017.4	1163.8	976.8	948.9
30°	615.5	601.5	670.6	575.5	536.2
32.5°	403.8	386.0	408.2	366.4	334.7
35°	270.0	275.7	258.6	256.7	216.8
37.5°	168.6	194.0	171.1	182.6	139.5
40°	109.0	140.7	121.1	133.7	102.7
42.5°	89.4	108.4	99.5	105.9	91.3
45°	71.0	88.1	88.1	88.1	71.6
47.5°	39.3	58.9	75.4	60.2	41.8
50°	22.2	29.8	58.3	31.1	23.5
52.5°	15.2	17.1	39.9	17.7	15.8
55°	11.4	12.0	21.6	12.7	12.0
57.5°	8.9	9.5	11.4	9.5	8.9
60°	7.0	7.0	8.2	7.6	7.0
62.5°	5.1	5.1	5.7	5.1	5.1
65°	3.8	3.8	3.8	3.8	3.8
67.5°	1.9	2.5	2.5	2.5	2.5
70°	1.9	1.3	1.3	1.3	1.9
72.5°	1.3	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



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)