

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: P749149

Luminaire Tested: LD4D50D010-EU4DR3040509040-4LBSQW1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P749149
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-EU4DR3040509040-4LBSQW1MW
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

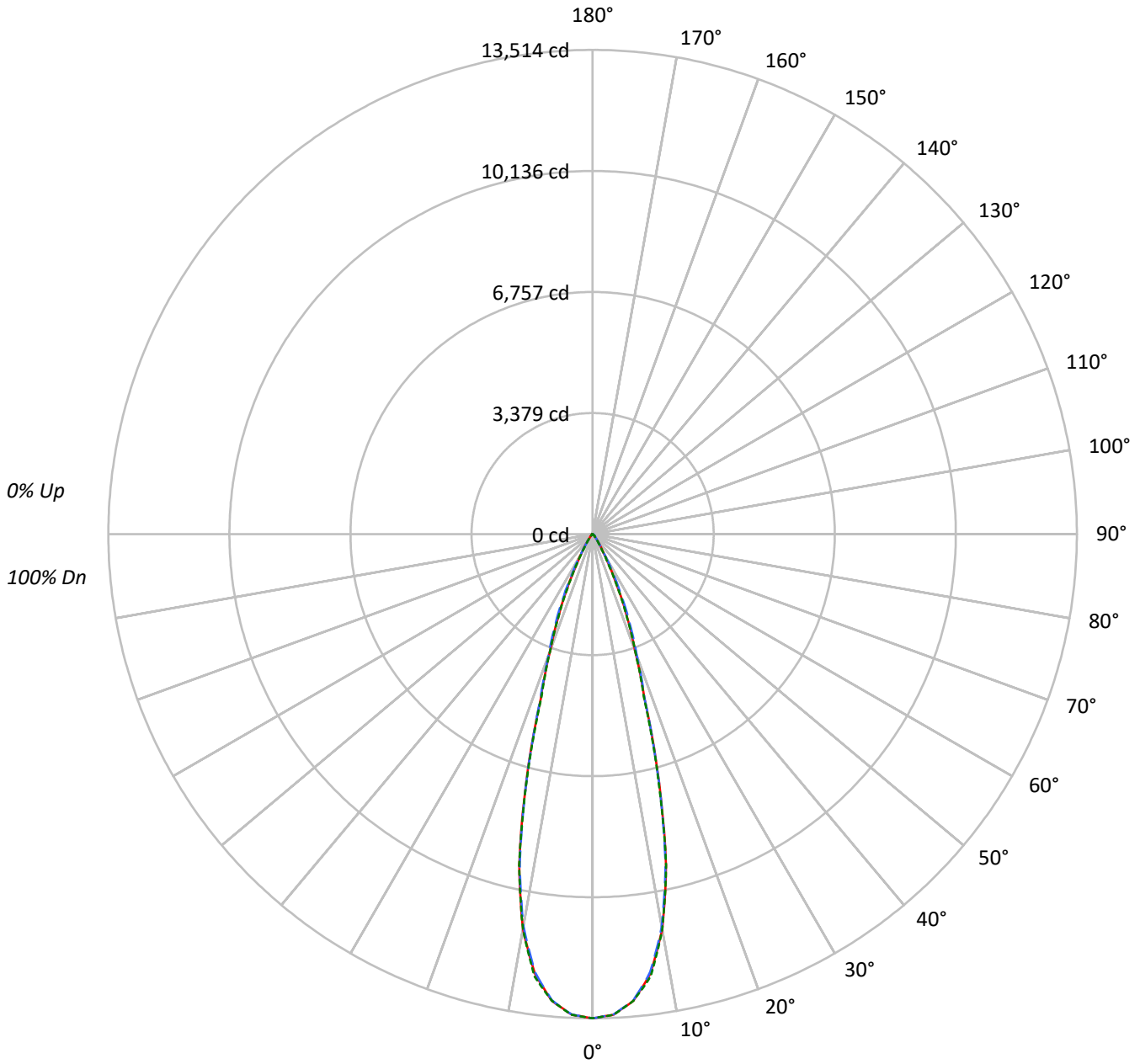
Lumens per Lamp: N/A
Luminaire Lumens: 4202.9 lumens
Efficiency: N/A
Efficacy: 89.4 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

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: P749149
CATALOG NUMBER: LD4D50D010-EU4DR3040509040-4LBSQW1MW

Luminous Intensity Polar Plot





TEST NUMBER: P749149

CATALOG NUMBER: LD4D50D010-EU4DR3040509040-4LBSQW1MW

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°	1034415	1034415	1034415
5°	1004720	1003552	1004774
10°	870239	864107	870037
15°	567788	564737	561900
20°	282334	292931	281959
25°	142224	160374	139311
30°	56946	62046	49610
35°	26416	25295	21202
40°	11401	12660	10741
45°	8043	9981	8119
50°	2763	7264	2917
55°	1588	3016	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: 9981 cd/sqm



TEST NUMBER: P749149

CATALOG NUMBER: LD4D50D010-EU4DR3040509040-4LBSQW1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1188.4	28.3
10°-20°	1913.9	45.5
20°-30°	827.0	19.7
30°-40°	188.5	4.5
40°-50°	64.7	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°	3929.3	93.5
0°-40°	4117.8	98.0
0°-60°	4198.3	99.9
0°-90°	4202.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4202.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13514	13514	13514	13514	13514	
5°	13076	13064	13061	13088	13077	1189
15°	7165	7079	7127	7103	7091	1919
25°	1684	1748	1899	1703	1650	806
35°	283	289	271	269	227	192
45°	74	92	92	92	75	53
55°	12	13	23	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: P749149

CATALOG NUMBER: LD4D50D010-EU4DR3040509040-4LBSQW1MW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	13514.1	13514.1	13514.1	13514.1	13514.1
2.5°	13424.6	13415.3	13420.6	13427.2	13429.9
5°	13076.2	13063.6	13061.0	13088.2	13076.9
7.5°	12373.6	12355.7	12328.5	12390.2	12447.9
10°	11196.5	11176.6	11117.6	11146.8	11193.9
12.5°	9458.8	9394.5	9393.1	9486.0	9473.4
15°	7165.1	7078.9	7126.6	7103.4	7090.8
17.5°	4818.3	4785.1	4848.8	4829.6	4746.7
20°	3466.1	3474.7	3596.2	3535.1	3461.5
22.5°	2529.3	2560.4	2704.4	2547.2	2489.4
25°	1684.0	1747.7	1898.9	1703.2	1649.5
27.5°	1035.7	1064.9	1218.2	1022.5	993.3
30°	644.3	629.7	702.0	602.5	561.3
32.5°	422.6	404.1	427.3	383.5	350.3
35°	282.7	288.6	270.7	268.7	226.9
37.5°	176.5	203.0	179.1	191.1	146.0
40°	114.1	147.3	126.7	140.0	107.5
42.5°	93.6	113.5	104.2	110.8	95.5
45°	74.3	92.2	92.2	92.2	75.0
47.5°	41.1	61.7	79.0	63.0	43.8
50°	23.2	31.2	61.0	32.5	24.5
52.5°	15.9	17.9	41.8	18.6	16.6
55°	11.9	12.6	22.6	13.3	12.6
57.5°	9.3	10.0	11.9	10.0	9.3
60°	7.3	7.3	8.6	8.0	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	2.7	2.7	2.7	2.7
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)