

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



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: P749124

Luminaire Tested: LD4D50D010-EU4DR3040509035-4LBCSSQMB

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P749124
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-EU4DR3040509035-4LBCSSQMB
Description: 4 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

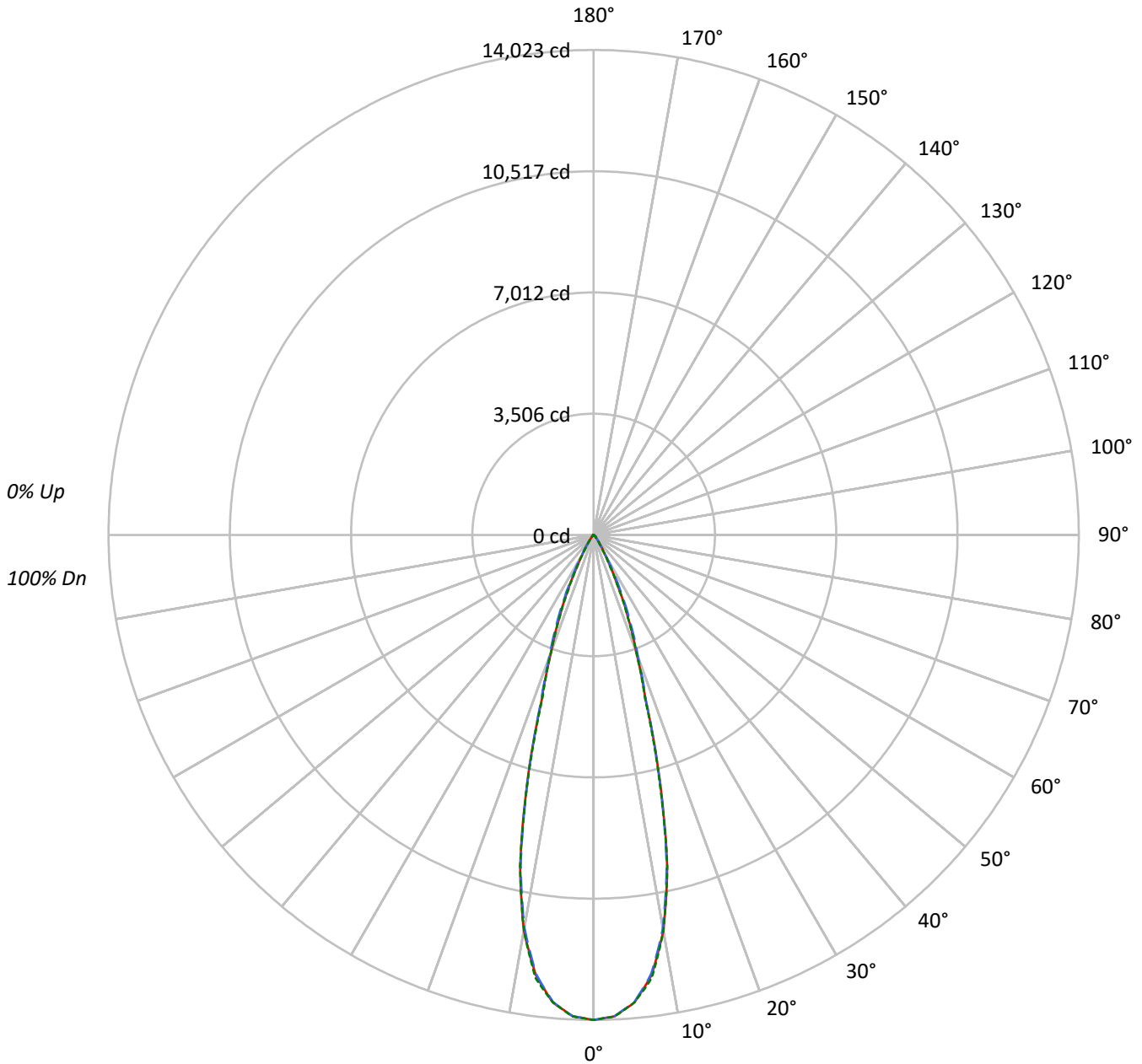
Lumens per Lamp: N/A
Luminaire Lumens: 4361.1 lumens
Efficiency: N/A
Efficacy: 92.8 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

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: P749124
CATALOG NUMBER: LD4D50D010-EU4DR3040509035-4LBCSSQMB

Luminous Intensity Polar Plot





TEST NUMBER: P749124

CATALOG NUMBER: LD4D50D010-EU4DR3040509035-4LBCSSQMB

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°	1073368	1073368	1073368
5°	1042554	1041340	1042608
10°	903008	896642	902798
15°	589168	586006	583058
20°	292964	303960	292573
25°	147579	166413	144555
30°	59085	64379	51484
35°	27407	26248	22006
40°	11831	13140	11141
45°	8346	10359	8422
50°	2870	7538	3037
55°	1655	3123	1748
60°	1163	1378	1163
65°	743	743	743
70°	470	313	470
75°	0	207	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 10359 cd/sqm



TEST NUMBER: P749124

CATALOG NUMBER: LD4D50D010-EU4DR3040509035-4LBCSSQMB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1233.1	28.3
10°-20°	1985.9	45.5
20°-30°	858.2	19.7
30°-40°	195.6	4.5
40°-50°	67.2	1.5
50°-60°	16.4	0.4
60°-70°	4.3	0.1
70°-80°	0.5	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°	4077.2	93.5
0°-40°	4272.8	98.0
0°-60°	4356.4	99.9
0°-90°	4361.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4361.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	14023	14023	14023	14023	14023	
5°	13569	13556	13553	13581	13569	1234
15°	7435	7345	7395	7371	7358	1991
25°	1747	1814	1970	1767	1712	836
35°	293	300	281	279	236	199
45°	77	96	96	96	78	55
55°	12	13	23	14	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: P749124

CATALOG NUMBER: LD4D50D010-EU4DR3040509035-4LBCSSQMB

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	14023.0	14023.0	14023.0	14023.0	14023.0
2.5°	13930.1	13920.4	13925.9	13932.8	13935.6
5°	13568.6	13555.5	13552.8	13581.0	13569.3
7.5°	12839.5	12820.9	12792.7	12856.7	12916.6
10°	11618.1	11597.5	11536.2	11566.5	11615.4
12.5°	9815.0	9748.2	9746.9	9843.2	9830.2
15°	7434.9	7345.4	7395.0	7370.9	7357.8
17.5°	4999.8	4965.3	5031.4	5011.5	4925.4
20°	3596.6	3605.6	3731.6	3668.2	3591.8
22.5°	2624.5	2656.9	2806.3	2643.1	2583.2
25°	1747.4	1813.5	1970.4	1767.3	1711.6
27.5°	1074.7	1105.0	1264.1	1061.0	1030.7
30°	668.5	653.4	728.4	625.1	582.5
32.5°	438.6	419.3	443.4	397.9	363.5
35°	293.3	299.5	280.9	278.8	235.5
37.5°	183.1	210.7	185.9	198.3	151.5
40°	118.4	152.8	131.5	145.3	111.5
42.5°	97.1	117.7	108.1	115.0	99.1
45°	77.1	95.7	95.7	95.7	77.8
47.5°	42.7	64.0	81.9	65.4	45.4
50°	24.1	32.4	63.3	33.7	25.5
52.5°	16.5	18.6	43.4	19.3	17.2
55°	12.4	13.1	23.4	13.8	13.1
57.5°	9.6	10.3	12.4	10.3	9.6
60°	7.6	7.6	9.0	8.3	7.6
62.5°	5.5	5.5	6.2	5.5	5.5
65°	4.1	4.1	4.1	4.1	4.1
67.5°	2.1	2.8	2.8	2.8	2.8
70°	2.1	1.4	1.4	1.4	2.1
72.5°	1.4	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)