

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: P754612

Luminaire Tested: LD4D85BD010-EU4DR3070959050-4LBCSSQMW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P754612
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: LD4D85BD010-EU4DR3070959050-4LBCSSQMW
Description: 4 INCH SQAURE SHALLOW CAST MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7698.2 lumens
Efficiency: N/A
Efficacy: 87.8 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

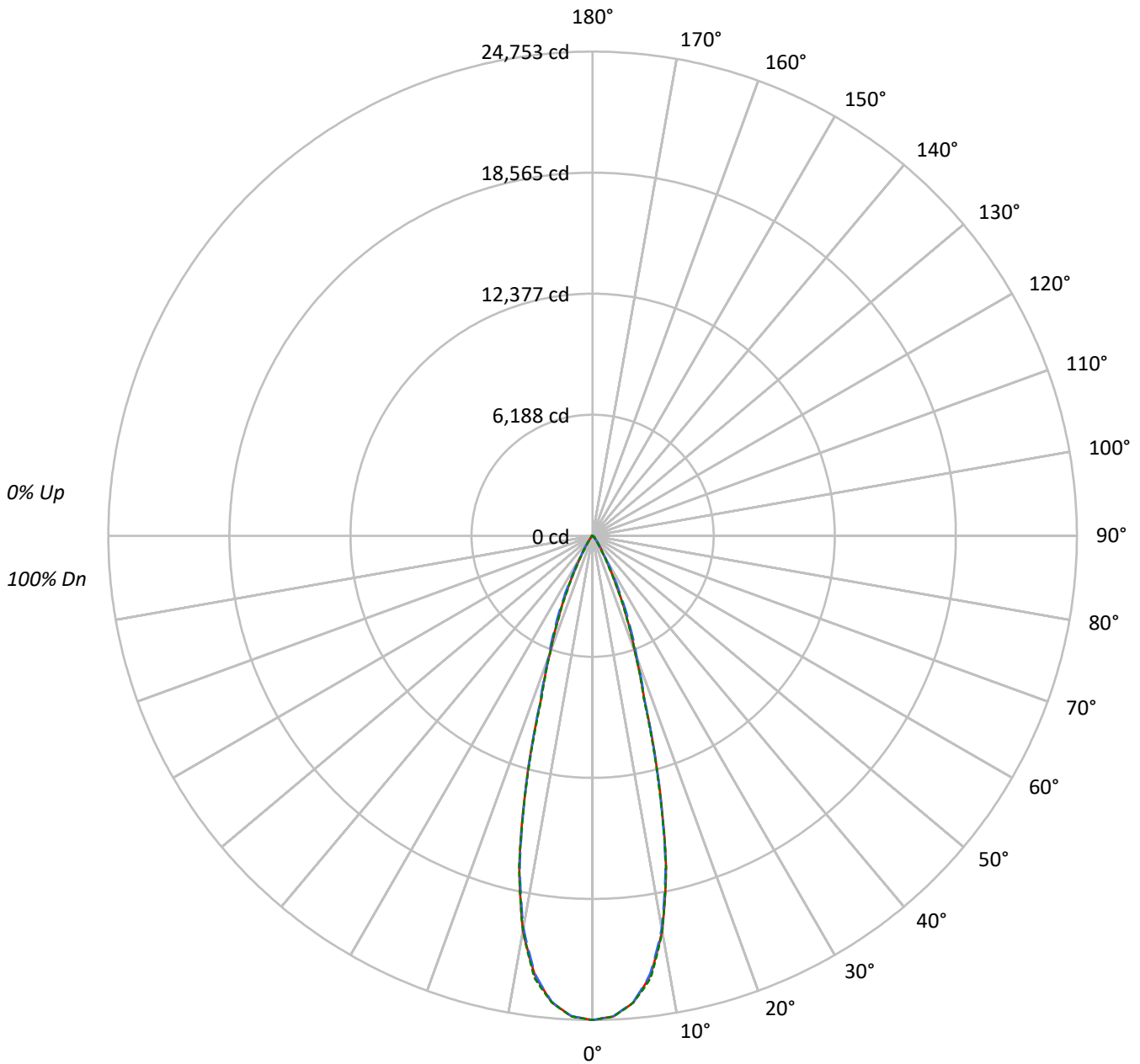
Input Watts (W): 87.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P754612

CATALOG NUMBER: LD4D85BD010-EU4DR3070959050-4LBCSSQMW

Luminous Intensity Polar Plot





TEST NUMBER: P754612

CATALOG NUMBER: LD4D85BD010-EU4DR3070959050-4LBCSSQMW

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°	1894702	1894702	1894702
5°	1840309	1838165	1840409
10°	1593991	1582752	1593610
15°	1040000	1034414	1029215
20°	517146	536549	516454
25°	260497	293756	255168
30°	104303	113645	90868
35°	48375	46329	38835
40°	20883	23192	19674
45°	14733	18283	14863
50°	5061	13313	5359
55°	2923	5511	3083
60°	2051	2419	2051
65°	1322	1322	1322
70°	806	537	806
75°	0	355	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 18283 cd/sqm



TEST NUMBER: P754612

CATALOG NUMBER: LD4D85BD010-EU4DR3070959050-4LBCSSQMW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2176.7	28.3
10°-20°	3505.6	45.5
20°-30°	1514.9	19.7
30°-40°	345.3	4.5
40°-50°	118.5	1.5
50°-60°	29.0	0.4
60°-70°	7.5	0.1
70°-80°	0.8	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°	7197.1	93.5
0°-40°	7542.4	98.0
0°-60°	7689.9	99.9
0°-90°	7698.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7698.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	24753	24753	24753	24753	24753	
5°	23951	23928	23923	23973	23952	2178
15°	13124	12966	13054	13011	12988	3514
25°	3084	3201	3478	3120	3021	1476
35°	518	529	496	492	416	351
45°	136	169	169	169	137	97
55°	22	23	41	24	23	21
65°	7	7	7	7	7	7
75°	0	0	1	0	0	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



TEST NUMBER: P754612

CATALOG NUMBER: LD4D85BD010-EU4DR3070959050-4LBCSSQMW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	24753.3	24753.3	24753.3	24753.3	24753.3
2.5°	24589.3	24572.3	24582.0	24594.1	24599.0
5°	23951.2	23928.2	23923.3	23973.1	23952.5
7.5°	22664.2	22631.4	22581.6	22694.6	22800.4
10°	20508.3	20471.8	20363.7	20417.1	20503.4
12.5°	17325.4	17207.5	17205.1	17375.2	17352.1
15°	13124.1	12966.1	13053.6	13011.1	12988.0
17.5°	8825.6	8764.8	8881.5	8846.2	8694.3
20°	6348.8	6364.6	6587.0	6475.1	6340.3
22.5°	4632.7	4689.9	4953.6	4665.6	4559.8
25°	3084.4	3201.1	3478.2	3119.7	3021.3
27.5°	1897.1	1950.6	2231.3	1872.8	1819.3
30°	1180.1	1153.3	1285.8	1103.5	1028.1
32.5°	774.1	740.1	782.7	702.4	641.7
35°	517.7	528.7	495.8	492.2	415.6
37.5°	323.3	371.9	328.1	350.0	267.4
40°	209.0	269.8	232.1	256.4	196.9
42.5°	171.4	207.8	190.8	203.0	175.0
45°	136.1	168.9	168.9	168.9	137.3
47.5°	75.3	113.0	144.6	115.5	80.2
50°	42.5	57.1	111.8	59.5	45.0
52.5°	29.2	32.8	76.6	34.0	30.4
55°	21.9	23.1	41.3	24.3	23.1
57.5°	17.0	18.2	21.9	18.2	17.0
60°	13.4	13.4	15.8	14.6	13.4
62.5°	9.7	9.7	10.9	9.7	9.7
65°	7.3	7.3	7.3	7.3	7.3
67.5°	3.6	4.9	4.9	4.9	4.9
70°	3.6	2.4	2.4	2.4	3.6
72.5°	2.4	1.2	1.2	1.2	1.2
75°	0.0	0.0	1.2	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)