

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: P754549

Luminaire Tested: LD4D85BD010-EU4DR3070959024-4LBDP1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P754549
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-EU4DR3070959024-4LBDP1H
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6779.5 lumens
Efficiency: N/A
Efficacy: 77.3 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 (A_{in}): 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

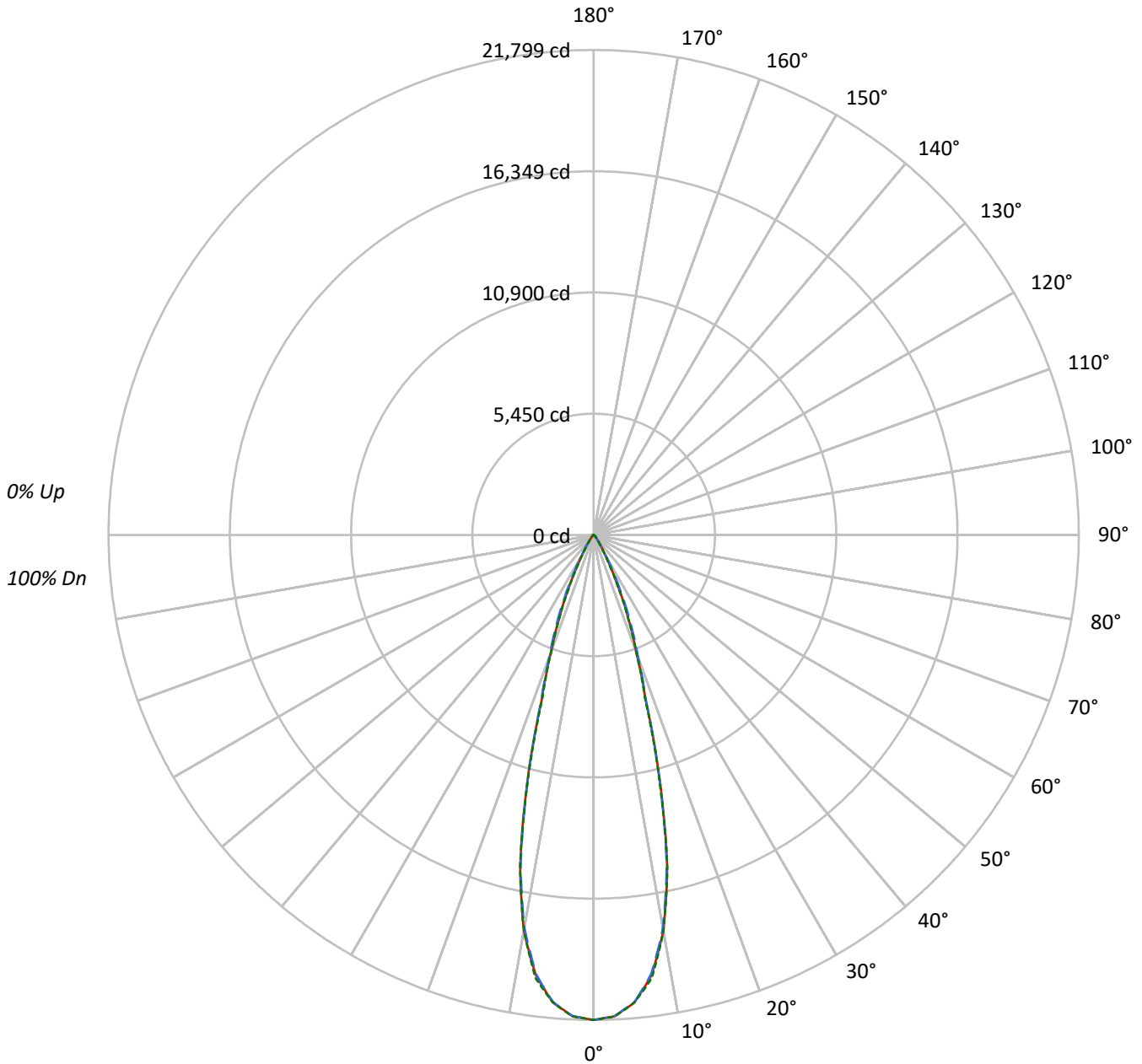


Downlight

TEST NUMBER: P754549

CATALOG NUMBER: LD4D85BD010-EU4DR3070959024-4LBDP1H

Luminous Intensity Polar Plot





TEST NUMBER: P754549

CATALOG NUMBER: LD4D85BD010-EU4DR3070959024-4LBDP1H

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°	1668600	1668600	1668600
5°	1620705	1618807	1620782
10°	1403777	1393875	1403443
15°	915889	910976	906396
20°	455427	472517	454816
25°	229417	258698	224713
30°	91849	100087	80032
35°	42600	40806	34200
40°	18395	20424	17326
45°	12979	16107	13087
50°	4466	11729	4716
55°	2576	4858	2709
60°	1806	2128	1806
65°	1159	1159	1159
70°	716	470	716
75°	0	325	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 16107 cd/sqm



TEST NUMBER: P754549

CATALOG NUMBER: LD4D85BD010-EU4DR3070959024-4LBDP1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1916.9	28.3
10°-20°	3087.2	45.5
20°-30°	1334.1	19.7
30°-40°	304.1	4.5
40°-50°	104.4	1.5
50°-60°	25.5	0.4
60°-70°	6.6	0.1
70°-80°	0.7	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°	6338.2	93.5
0°-40°	6642.3	98.0
0°-60°	6772.2	99.9
0°-90°	6779.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6779.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	21799	21799	21799	21799	21799	
5°	21093	21073	21068	21112	21094	1919
15°	11558	11419	11496	11458	11438	3095
25°	2716	2819	3063	2747	2661	1300
35°	456	466	437	434	366	309
45°	120	149	149	149	121	85
55°	19	20	36	21	20	19
65°	6	6	6	6	6	6
75°	0	0	1	0	0	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



TEST NUMBER: P754549

CATALOG NUMBER: LD4D85BD010-EU4DR3070959024-4LBDP1H

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	21799.4	21799.4	21799.4	21799.4	21799.4
2.5°	21655.0	21640.0	21648.5	21659.2	21663.5
5°	21093.1	21072.7	21068.4	21112.3	21094.1
7.5°	19959.6	19930.7	19886.9	19986.4	20079.5
10°	18061.0	18028.8	17933.6	17980.7	18056.7
12.5°	15257.9	15154.1	15151.9	15301.8	15281.4
15°	11557.9	11418.8	11495.9	11458.4	11438.1
17.5°	7772.4	7718.9	7821.6	7790.6	7656.8
20°	5591.1	5605.1	5800.9	5702.4	5583.6
22.5°	4079.9	4130.2	4362.5	4108.8	4015.7
25°	2716.4	2819.1	3063.1	2747.4	2660.7
27.5°	1670.7	1717.8	1965.0	1649.3	1602.2
30°	1039.2	1015.7	1132.4	971.8	905.5
32.5°	681.8	651.8	689.3	618.6	565.1
35°	455.9	465.6	436.7	433.5	366.0
37.5°	284.7	327.5	289.0	308.2	235.5
40°	184.1	237.6	204.4	225.8	173.4
42.5°	150.9	183.0	168.0	178.7	154.1
45°	119.9	148.8	148.8	148.8	120.9
47.5°	66.4	99.5	127.4	101.7	70.6
50°	37.5	50.3	98.5	52.4	39.6
52.5°	25.7	28.9	67.4	30.0	26.8
55°	19.3	20.3	36.4	21.4	20.3
57.5°	15.0	16.1	19.3	16.1	15.0
60°	11.8	11.8	13.9	12.8	11.8
62.5°	8.6	8.6	9.6	8.6	8.6
65°	6.4	6.4	6.4	6.4	6.4
67.5°	3.2	4.3	4.3	4.3	4.3
70°	3.2	2.1	2.1	2.1	3.2
72.5°	2.1	1.1	1.1	1.1	1.1
75°	0.0	0.0	1.1	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)