

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: P754550

Luminaire Tested: LD4D85BD010-EU4DR3070959024-4LBDP1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P754550
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-EU4DR3070959024-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF 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: 7118.5 lumens
Efficiency: N/A
Efficacy: 81.2 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

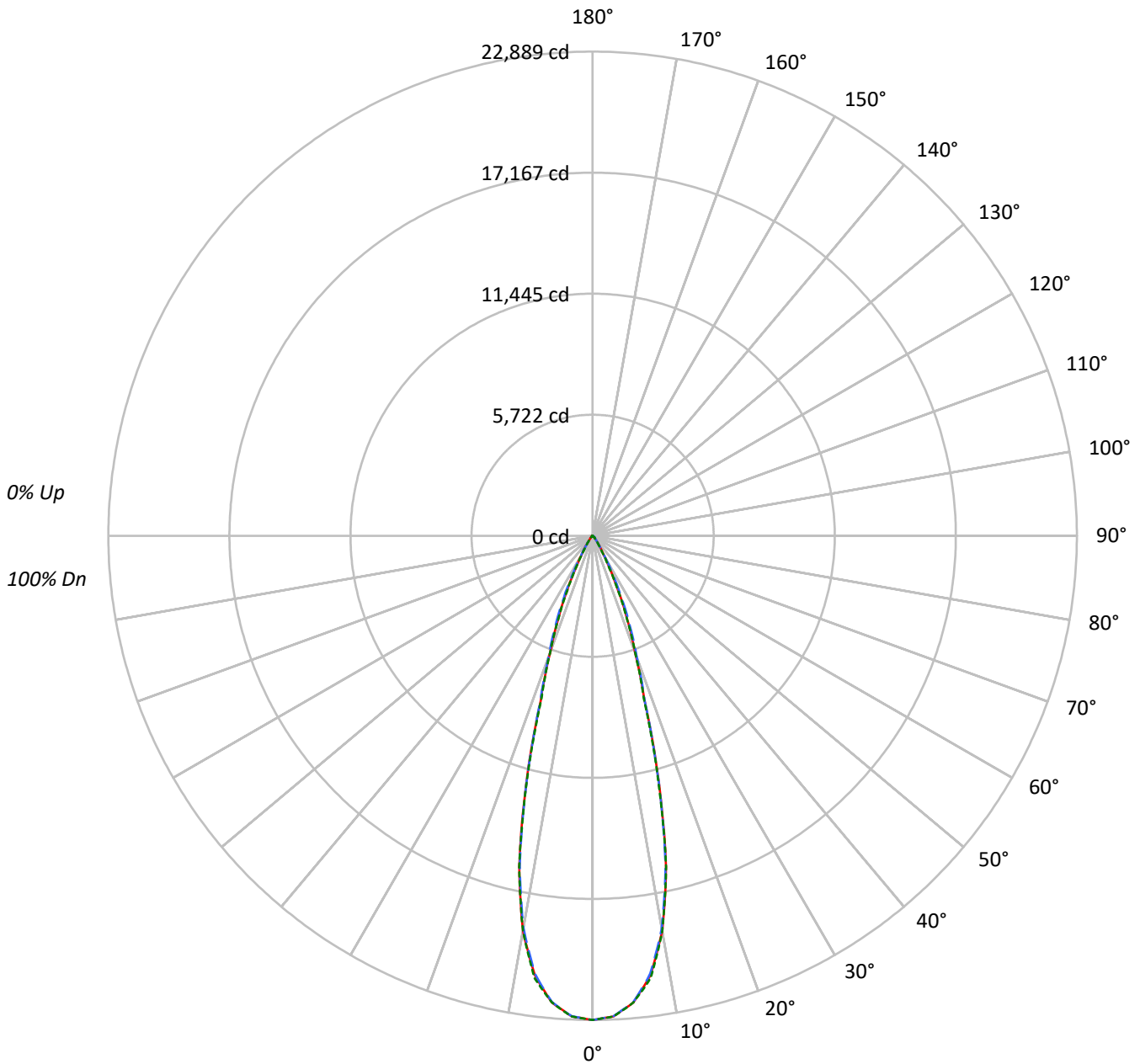


Downlight

TEST NUMBER: P754550

CATALOG NUMBER: LD4D85BD010-EU4DR3070959024-4LBDP1LI

Luminous Intensity Polar Plot





TEST NUMBER: P754550

CATALOG NUMBER: LD4D85BD010-EU4DR3070959024-4LBDP1LI

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°	1752032	1752032	1752032
5°	1701736	1699753	1701820
10°	1473962	1463570	1473612
15°	961684	956525	951715
20°	478202	496147	477559
25°	240886	271637	235946
30°	96445	105089	84027
35°	44731	42843	35910
40°	19315	21443	18195
45°	13629	16908	13748
50°	4680	12313	4954
55°	2696	5098	2856
60°	1898	2235	1898
65°	1213	1213	1213
70°	761	492	761
75°	0	325	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 16908 cd/sqm



TEST NUMBER: P754550

CATALOG NUMBER: LD4D85BD010-EU4DR3070959024-4LBDP1LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2012.8	28.3
10°-20°	3241.6	45.5
20°-30°	1400.8	19.7
30°-40°	319.3	4.5
40°-50°	109.6	1.5
50°-60°	26.8	0.4
60°-70°	6.9	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°	6655.2	93.5
0°-40°	6974.4	98.0
0°-60°	7110.8	99.9
0°-90°	7118.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7118.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	22889	22889	22889	22889	22889	
5°	22148	22126	22122	22168	22149	2014
15°	12136	11990	12071	12031	12010	3250
25°	2852	2960	3216	2885	2794	1365
35°	479	489	458	455	384	325
45°	126	156	156	156	127	89
55°	20	21	38	22	21	20
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: P754550

CATALOG NUMBER: LD4D85BD010-EU4DR3070959024-4LBDP1LI

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	22889.4	22889.4	22889.4	22889.4	22889.4
2.5°	22737.7	22722.0	22731.0	22742.2	22746.7
5°	22147.7	22126.4	22121.9	22167.9	22148.8
7.5°	20957.6	20927.3	20881.2	20985.7	21083.5
10°	18964.0	18930.3	18830.3	18879.7	18959.5
12.5°	16020.8	15911.8	15909.5	16066.9	16045.5
15°	12135.8	11989.7	12070.7	12031.3	12010.0
17.5°	8161.0	8104.8	8212.7	8180.1	8039.6
20°	5870.7	5885.3	6091.0	5987.6	5862.8
22.5°	4283.9	4336.7	4580.6	4314.2	4216.5
25°	2852.2	2960.1	3216.3	2884.8	2793.7
27.5°	1754.2	1803.7	2063.3	1731.8	1682.3
30°	1091.2	1066.5	1189.0	1020.4	950.7
32.5°	715.9	684.4	723.7	649.6	593.4
35°	478.7	488.8	458.5	455.1	384.3
37.5°	298.9	343.9	303.4	323.7	247.2
40°	193.3	249.5	214.6	237.1	182.1
42.5°	158.5	192.2	176.4	187.7	161.8
45°	125.9	156.2	156.2	156.2	127.0
47.5°	69.7	104.5	133.7	106.8	74.2
50°	39.3	52.8	103.4	55.1	41.6
52.5°	27.0	30.3	70.8	31.5	28.1
55°	20.2	21.4	38.2	22.5	21.4
57.5°	15.7	16.9	20.2	16.9	15.7
60°	12.4	12.4	14.6	13.5	12.4
62.5°	9.0	9.0	10.1	9.0	9.0
65°	6.7	6.7	6.7	6.7	6.7
67.5°	3.4	4.5	4.5	4.5	4.5
70°	3.4	2.2	2.2	2.2	3.4
72.5°	2.2	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)