

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: P755127

Luminaire Tested: LD4D85BD010-EU4DR6570959030-4LBS1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P755127
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-147)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D85BD010-EU4DR6570959030-4LBS1MW
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7100.9 lumens
Efficiency: N/A
Efficacy: 81.0 lumens/watt
Spacing Criteria (0/90/45): 0.95 / 0.95 / 0.96
Luminous Opening: Circular (Dia: 0.48' 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

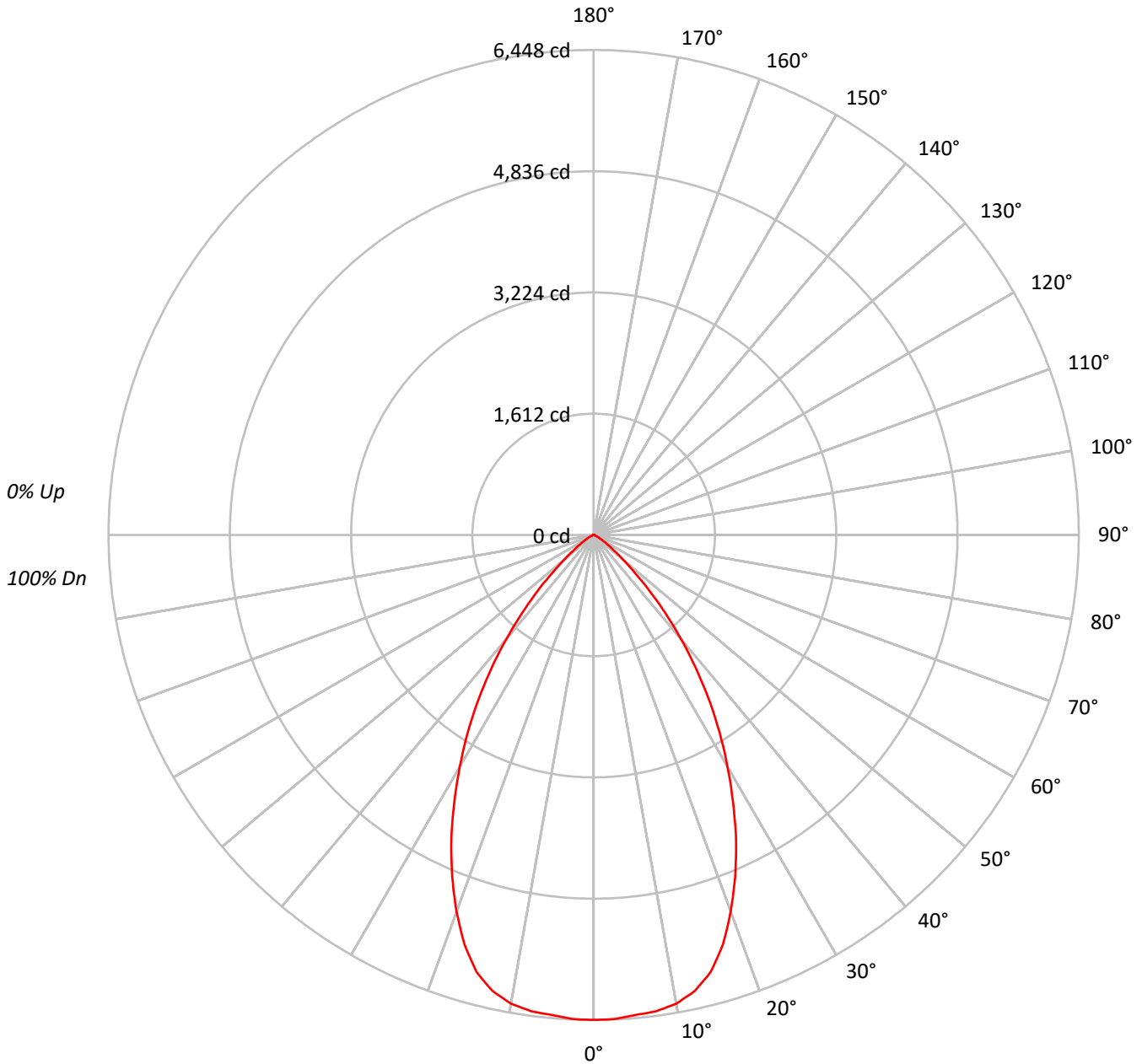


Downlight

TEST NUMBER: P755127

CATALOG NUMBER: LD4D85BD010-EU4DR6570959030-4LBS1MW

Luminous Intensity Polar Plot





TEST NUMBER: P755127

CATALOG NUMBER: LD4D85BD010-EU4DR6570959030-4LBS1MW

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	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	93																			
2	107	102	97	94	105	100	96	92	97	93	90	94	91	88	91	89	87	85																			
3	101	94	88	84	99	92	87	83	90	86	82	87	84	81	85	82	80	78																			
4	95	87	81	76	93	86	80	76	84	79	75	82	77	74	80	76	73	72																			
5	90	81	74	70	88	80	74	69	78	73	69	76	72	68	75	71	68	66																			
6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	62	61																			
7	80	70	64	59	79	69	63	59	68	63	59	67	62	58	66	61	58	56																			
8	76	66	59	55	75	65	59	55	64	58	54	63	58	54	62	57	54	52																			
9	72	61	55	51	71	61	55	51	60	54	51	59	54	50	58	54	50	49																			
10	68	58	52	47	67	57	51	47	57	51	47	56	51	47	55	50	47	46																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	376559
5°	375605
10°	375287
15°	363716
20°	331122
25°	288550
30°	239995
35°	190159
40°	137249
45°	86709
50°	45194
55°	24020
60°	12615
65°	6937
70°	2920
75°	3204
80°	2220
85°	1876

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 86709 cd/sqm



TEST NUMBER: P755127

CATALOG NUMBER: LD4D85BD010-EU4DR6570959030-4LBS1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	609.7	8.6
10°-20°	1669.7	23.5
20°-30°	2040.9	28.7
30°-40°	1655.9	23.3
40°-50°	825.2	11.6
50°-60°	230.2	3.2
60°-70°	52.3	0.7
70°-80°	13.6	0.2
80°-90°	3.5	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°	4320.3	60.8
0°-40°	5976.2	84.2
0°-60°	7031.6	99.0
0°-90°	7100.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7100.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6448	
5°	6407	610
15°	6015	1670
25°	4478	2041
35°	2667	1656
45°	1050	825
55°	236	230
65°	50	52
75°	14	14
85°	3	3
90°	0	



TEST NUMBER: P755127

CATALOG NUMBER: LD4D85BD010-EU4DR6570959030-4LBS1MW

CANDELA DISTRIBUTION (FULL):

	0°
0°	6447.5
2.5°	6442.7
5°	6406.7
7.5°	6385.9
10°	6328.1
12.5°	6210.6
15°	6015.4
17.5°	5710.4
20°	5327.6
22.5°	4914.5
25°	4477.7
27.5°	4010.6
30°	3558.7
32.5°	3112.4
35°	2667.1
37.5°	2222.7
40°	1800.2
42.5°	1404.1
45°	1049.8
47.5°	731.4
50°	497.4
52.5°	343.0
55°	235.9
57.5°	159.2
60°	108.0
62.5°	74.8
65°	50.2
67.5°	25.6
70°	17.1
72.5°	16.1
75°	14.2
77.5°	9.5
80°	6.6
82.5°	4.7
85°	2.8
87.5°	1.9
90°	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



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

Scaled Data Report



— 0°-180°

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)