

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: P755100

Luminaire Tested: LD4D85BD010-EU4DR6570959024-4LBS1LI

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P755100
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-EU4DR6570959024-4LBS1LI
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6723.7 lumens
Efficiency: N/A
Efficacy: 76.7 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

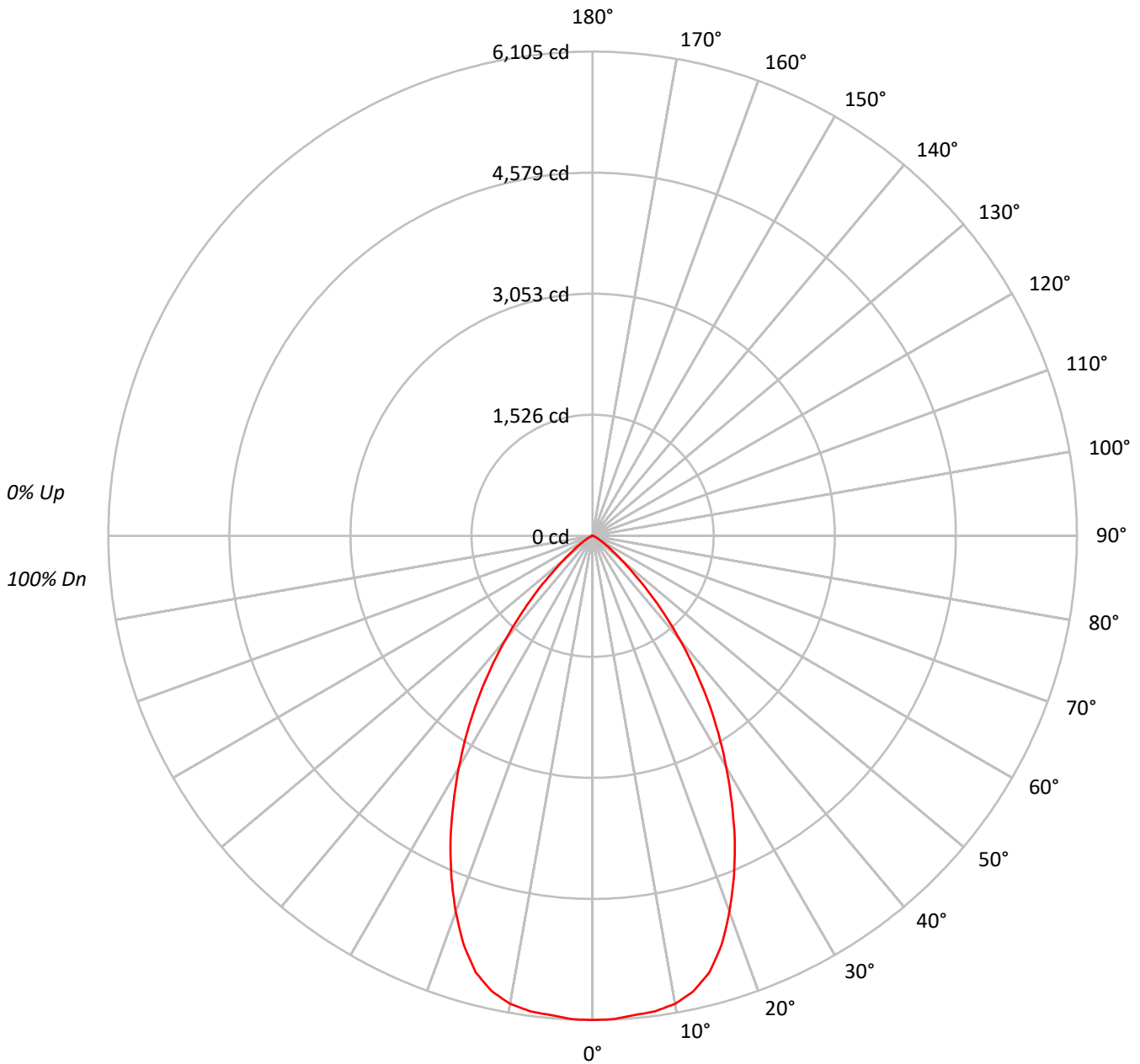


Downlight

TEST NUMBER: P755100

CATALOG NUMBER: LD4D85BD010-EU4DR6570959024-4LBS1LI

Luminous Intensity Polar Plot





TEST NUMBER: P755100

CATALOG NUMBER: LD4D85BD010-EU4DR6570959024-4LBS1LI

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°	356550
5°	355649
10°	355349
15°	344392
20°	313526
25°	273219
30°	227242
35°	180056
40°	129953
45°	82100
50°	42795
55°	22747
60°	11949
65°	6564
70°	2749
75°	3046
80°	2119
85°	1809

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 82100 cd/sqm



TEST NUMBER: P755100

CATALOG NUMBER: LD4D85BD010-EU4DR6570959024-4LBS1LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	577.3	8.6
10°-20°	1580.9	23.5
20°-30°	1932.5	28.7
30°-40°	1567.9	23.3
40°-50°	781.3	11.6
50°-60°	217.9	3.2
60°-70°	49.5	0.7
70°-80°	12.9	0.2
80°-90°	3.3	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°	4090.7	60.8
0°-40°	5658.7	84.2
0°-60°	6657.9	99.0
0°-90°	6723.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6723.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6105	
5°	6066	577
15°	5696	1581
25°	4240	1932
35°	2525	1568
45°	994	781
55°	223	218
65°	48	50
75°	14	13
85°	3	3
90°	0	



TEST NUMBER: P755100

CATALOG NUMBER: LD4D85BD010-EU4DR6570959024-4LBS1LI

CANDELA DISTRIBUTION (FULL):

	0°
0°	6104.9
2.5°	6100.4
5°	6066.3
7.5°	6046.6
10°	5991.9
12.5°	5880.6
15°	5695.8
17.5°	5406.9
20°	5044.5
22.5°	4653.4
25°	4239.8
27.5°	3797.5
30°	3369.6
32.5°	2947.0
35°	2525.4
37.5°	2104.6
40°	1704.5
42.5°	1329.5
45°	994.0
47.5°	692.6
50°	471.0
52.5°	324.8
55°	223.4
57.5°	150.7
60°	102.3
62.5°	70.9
65°	47.5
67.5°	24.2
70°	16.1
72.5°	15.3
75°	13.5
77.5°	9.0
80°	6.3
82.5°	4.5
85°	2.7
87.5°	1.8
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)