

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: P755110

Luminaire Tested: LD4D85BD010-EU4DR6570959027-4LBDP1MW

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P755110
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-59)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D85BD010-EU4DR6570959027-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5945.5 lumens
Efficiency: N/A
Efficacy: 67.8 lumens/watt
Spacing Criteria (0/90/45): 0.98 / 0.98 / 0.92
Luminous Opening: Circular (Dia: 0.35' 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

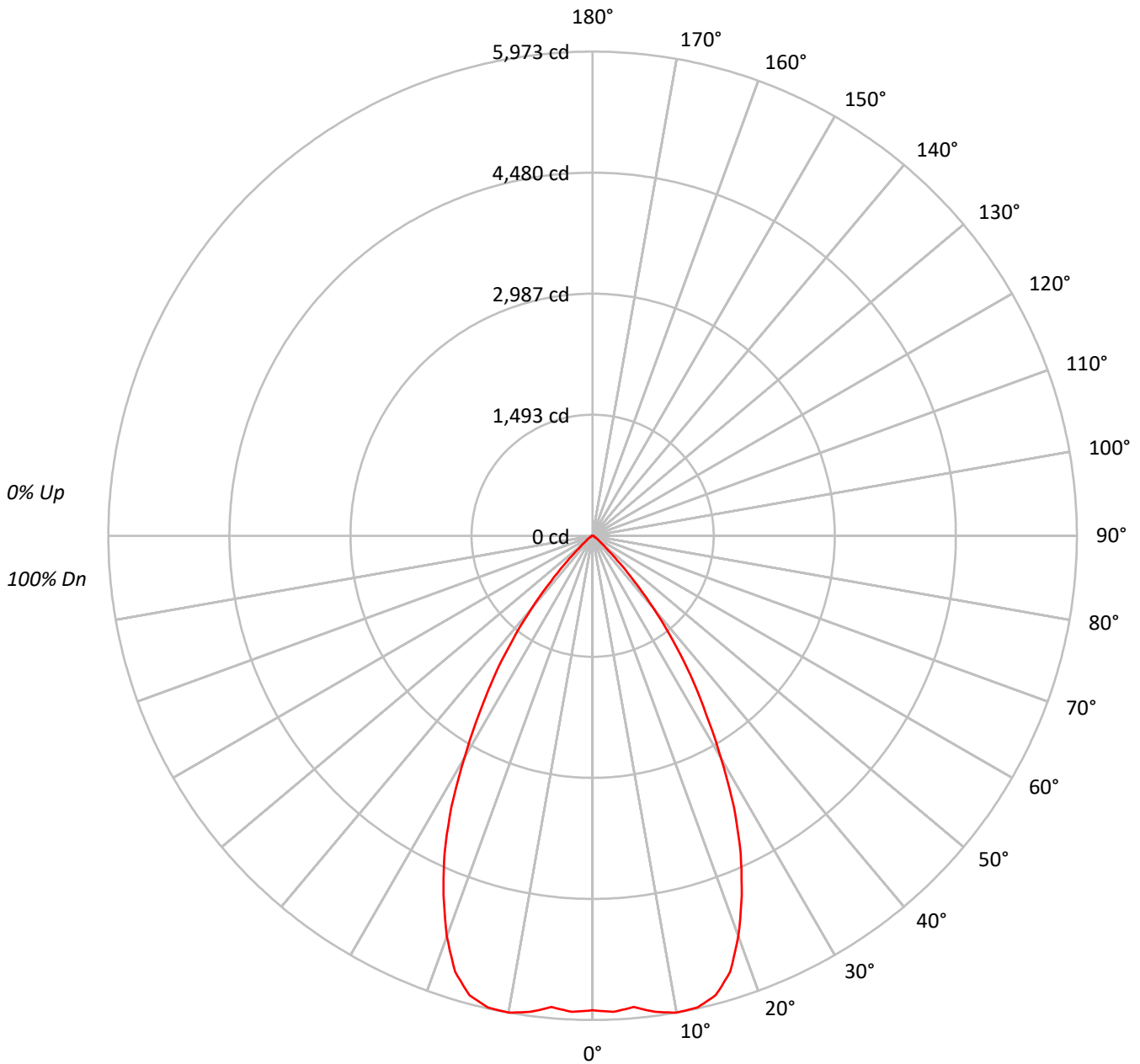


Downlight

TEST NUMBER: P755110

CATALOG NUMBER: LD4D85BD010-EU4DR6570959027-4LBDP1MW

Luminous Intensity Polar Plot





TEST NUMBER: P755110

CATALOG NUMBER: LD4D85BD010-EU4DR6570959027-4LBDP1MW

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	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93																			
2	108	103	99	95	106	101	97	94	98	95	92	95	92	90	92	90	88	87																			
3	102	96	91	87	100	94	90	86	92	88	85	89	86	83	87	84	82	80																			
4	97	89	84	79	95	88	83	79	86	82	78	84	80	77	82	79	76	75																			
5	92	83	78	73	90	83	77	73	81	76	72	79	75	72	77	74	71	69																			
6	87	78	72	68	86	77	72	68	76	71	67	74	70	67	73	69	66	65																			
7	83	73	67	63	81	73	67	63	71	66	62	70	66	62	69	65	62	60																			
8	79	69	63	59	77	68	63	59	67	62	58	66	62	58	65	61	58	57																			
9	75	65	59	55	74	65	59	55	64	58	55	63	58	55	62	58	54	53																			
10	71	61	56	52	70	61	55	52	60	55	51	59	55	51	59	54	51	50																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	639591
5°	640114
10°	662660
15°	663748
20°	611095
25°	520681
30°	398601
35°	281611
40°	166221
45°	67478
50°	24460
55°	13620
60°	7823
65°	4292
70°	4504
75°	3504
80°	3649
85°	3134

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 67478 cd/sqm



TEST NUMBER: P755110

CATALOG NUMBER: LD4D85BD010-EU4DR6570959027-4LBDP1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	563.7	9.5
10°-20°	1625.9	27.3
20°-30°	1950.8	32.8
30°-40°	1311.0	22.1
40°-50°	392.5	6.6
50°-60°	69.3	1.2
60°-70°	19.7	0.3
70°-80°	9.6	0.2
80°-90°	3.1	0.1
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°	4140.4	69.6
0°-40°	5451.4	91.7
0°-60°	5913.1	99.5
0°-90°	5945.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5945.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5854	
5°	5836	564
15°	5868	1626
25°	4319	1951
35°	2111	1311
45°	437	392
55°	72	69
65°	17	20
75°	8	10
85°	2	3
90°	0	



TEST NUMBER: P755110

CATALOG NUMBER: LD4D85BD010-EU4DR6570959027-4LBDP1MW

CANDELA DISTRIBUTION (FULL):

0°	
0°	5853.8
2.5°	5878.8
5°	5836.3
7.5°	5924.5
10°	5972.8
12.5°	5961.1
15°	5867.9
17.5°	5640.0
20°	5255.7
22.5°	4803.2
25°	4319.0
27.5°	3772.5
30°	3159.4
32.5°	2603.7
35°	2111.3
37.5°	1624.6
40°	1165.4
42.5°	761.2
45°	436.7
47.5°	231.3
50°	143.9
52.5°	99.8
55°	71.5
57.5°	51.6
60°	35.8
62.5°	23.3
65°	16.6
67.5°	15.0
70°	14.1
72.5°	10.8
75°	8.3
77.5°	7.5
80°	5.8
82.5°	4.2
85°	2.5
87.5°	1.7
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)