

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: P755192

Luminaire Tested: LD4D85BD010-EU4DR7070959027-4LBS1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P755192
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-76)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D85BD010-EU4DR7070959027-4LBS1MW
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7934.7 lumens
Efficiency: N/A
Efficacy: 90.5 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.1 / 1.04
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

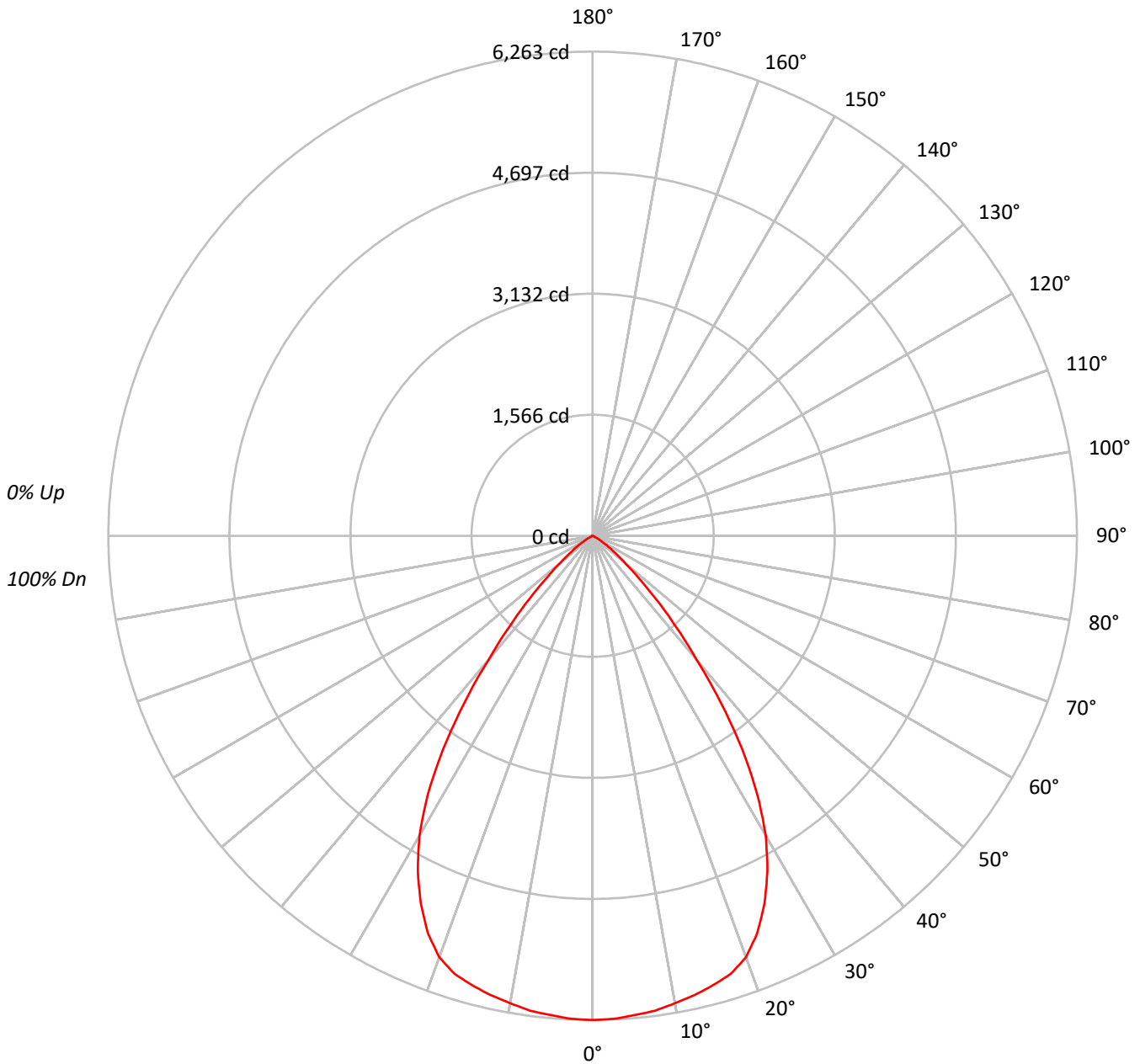


Downlight

TEST NUMBER: P755192

CATALOG NUMBER: LD4D85BD010-EU4DR7070959027-4LBS1MW

Luminous Intensity Polar Plot





TEST NUMBER: P755192

CATALOG NUMBER: LD4D85BD010-EU4DR7070959027-4LBS1MW

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
RC	80				70				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			100
1	113	110	107	105	111	108	106	103	104	102	100	100	99	97	97	95	94	93			93
2	107	102	97	94	105	100	96	92	97	93	90	94	91	88	91	89	87	85			85
3	101	94	88	84	99	92	87	83	90	85	82	87	84	81	85	82	79	78			78
4	95	87	81	76	93	86	80	76	83	78	75	81	77	74	79	76	73	71			71
5	89	80	74	69	88	79	73	69	78	72	68	76	71	68	74	70	67	65			65
6	84	75	68	63	83	74	68	63	72	67	63	71	66	62	69	65	62	60			60
7	80	69	63	58	78	69	62	58	67	62	58	66	61	57	65	61	57	56			56
8	75	65	58	54	74	64	58	54	63	57	53	62	57	53	61	56	53	51			51
9	71	61	54	50	70	60	54	50	59	53	50	58	53	49	57	53	49	48			48
10	67	57	50	46	66	56	50	46	55	50	46	55	50	46	54	49	46	44			44

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	684278
5°	682571
10°	681088
15°	680896
20°	674243
25°	633365
30°	564645
35°	450193
40°	298938
45°	178716
50°	92656
55°	48689
60°	17219
65°	284
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 178716 cd/sqm



TEST NUMBER: P755192

CATALOG NUMBER: LD4D85BD010-EU4DR7070959027-4LBS1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	591.8	7.5
10°-20°	1697.4	21.4
20°-30°	2394.6	30.2
30°-40°	2067.1	26.1
40°-50°	925.7	11.7
50°-60°	242.4	3.1
60°-70°	15.8	0.2
70°-80°	0.0	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°	4683.8	59.0
0°-40°	6750.9	85.1
0°-60°	7918.9	99.8
0°-90°	7934.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7934.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6263	
5°	6223	592
15°	6020	1697
25°	5254	2395
35°	3375	2067
45°	1157	926
55°	256	242
65°	1	16
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P755192

CATALOG NUMBER: LD4D85BD010-EU4DR7070959027-4LBS1MW

CANDELA DISTRIBUTION (FULL):

	0°
0°	6262.8
2.5°	6256.0
5°	6223.4
7.5°	6196.3
10°	6138.9
12.5°	6087.1
15°	6019.5
17.5°	5941.8
20°	5798.8
22.5°	5563.4
25°	5253.7
27.5°	4894.5
30°	4475.5
32.5°	3963.1
35°	3375.2
37.5°	2726.5
40°	2095.9
42.5°	1592.4
45°	1156.6
47.5°	797.3
50°	545.1
52.5°	376.2
55°	255.6
57.5°	154.3
60°	78.8
62.5°	24.8
65°	1.1
67.5°	0.0
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
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)