

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: P755166

Luminaire Tested: LD4D85BD010-EU4DR6570959050-4LBS1MW

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P755166  
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-EU4DR6570959050-4LBS1MW  
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 65° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7564.9 lumens  
Efficiency: N/A  
Efficacy: 86.3 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<sub>in</sub>): 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

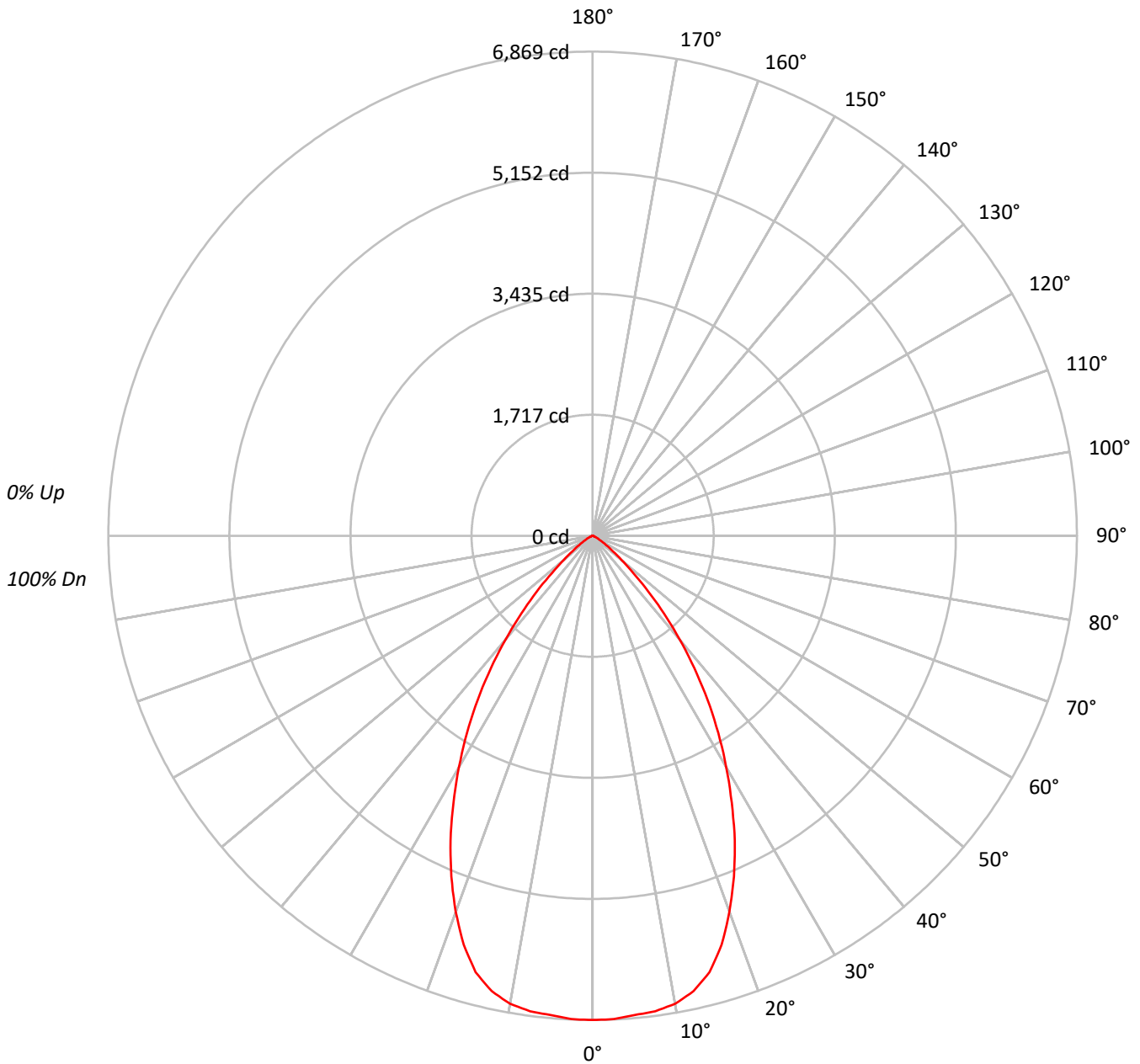


Downlight

TEST NUMBER: P755166

CATALOG NUMBER: LD4D85BD010-EU4DR6570959050-4LBS1MW

### Luminous Intensity Polar Plot





TEST NUMBER: P755166

CATALOG NUMBER: LD4D85BD010-EU4DR6570959050-4LBS1MW

**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			100																
1	113	110	107	105	111	108	105	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	86	82	87	84	81	85	82	80	78			78																
4	95	87	81	76	93	86	80	76	84	79	75	82	77	74	80	76	73	72			72																
5	90	81	74	70	88	80	74	69	78	73	69	76	72	68	75	71	68	66			66																
6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	62	61			61																
7	80	70	64	59	79	69	63	59	68	63	59	67	62	58	66	61	58	56			56																
8	76	66	59	55	75	65	59	55	64	58	54	63	58	54	62	57	54	52			52																
9	72	61	55	51	71	61	55	51	60	54	51	59	54	50	58	54	50	49			49																
10	68	58	52	47	67	57	51	47	57	51	47	56	51	47	55	50	47	46			46																

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	401159
5°	400147
10°	399804
15°	387484
20°	352757
25°	307405
30°	255675
35°	202586
40°	146215
45°	92375
50°	48147
55°	25588
60°	13445
65°	7393
70°	3108
75°	3407
80°	2388
85°	2010

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 92375 cd/sqm



TEST NUMBER: P755166

CATALOG NUMBER: LD4D85BD010-EU4DR6570959050-4LBS1MW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	649.6	8.6
10°-20°	1778.8	23.5
20°-30°	2174.2	28.7
30°-40°	1764.1	23.3
40°-50°	879.1	11.6
50°-60°	245.2	3.2
60°-70°	55.7	0.7
70°-80°	14.5	0.2
80°-90°	3.7	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°	4602.6	60.8
0°-40°	6366.7	84.2
0°-60°	7491.0	99.0
0°-90°	7564.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7564.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	6869	
5°	6825	650
15°	6408	1779
25°	4770	2174
35°	2841	1764
45°	1118	879
55°	251	245
65°	54	56
75°	15	15
85°	3	4
90°	0	



TEST NUMBER: P755166

CATALOG NUMBER: LD4D85BD010-EU4DR6570959050-4LBS1MW

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	6868.7
2.5°	6863.7
5°	6825.3
7.5°	6803.1
10°	6741.5
12.5°	6616.4
15°	6408.5
17.5°	6083.4
20°	5675.7
22.5°	5235.6
25°	4770.3
27.5°	4272.6
30°	3791.2
32.5°	3315.8
35°	2841.4
37.5°	2368.0
40°	1917.8
42.5°	1495.9
45°	1118.4
47.5°	779.2
50°	529.9
52.5°	365.4
55°	251.3
57.5°	169.6
60°	115.1
62.5°	79.7
65°	53.5
67.5°	27.3
70°	18.2
72.5°	17.2
75°	15.1
77.5°	10.1
80°	7.1
82.5°	5.0
85°	3.0
87.5°	2.0
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)