

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: P755239

Luminaire Tested: LD4D85BD010-EU4DR7070959050-4LBDP1LI

Issue Date: 2/5/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P755239  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-73)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LD4D85BD010-EU4DR7070959050-4LBDP1LI  
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 70° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9148.1 lumens  
Efficiency: N/A  
Efficacy: 104.3 lumens/watt  
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.82  
Luminous Opening: Circular (Dia: 0.35' 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

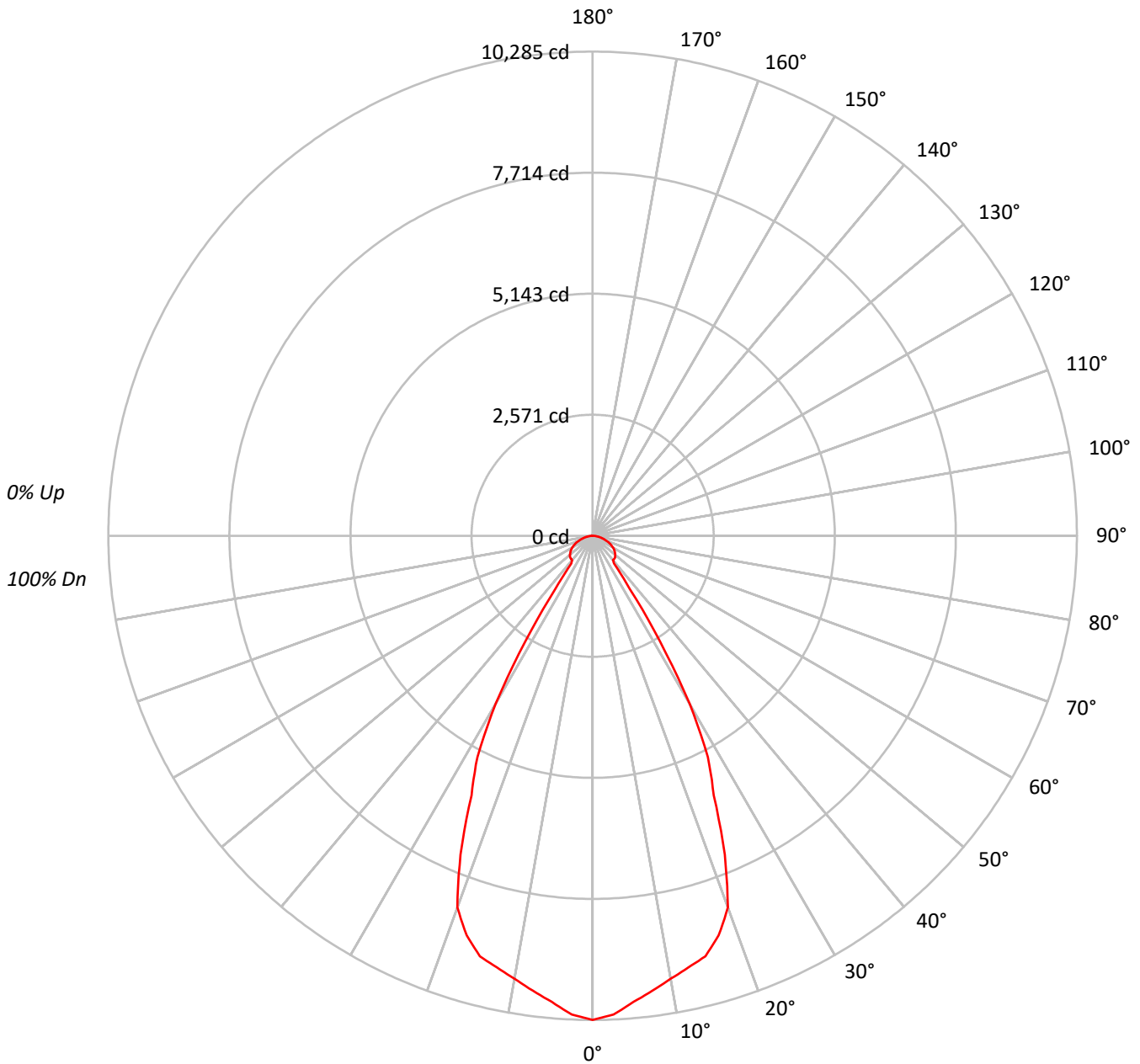


Downlight

TEST NUMBER: P755239

CATALOG NUMBER: LD4D85BD010-EU4DR7070959050-4LBDP1LI

### Luminous Intensity Polar Plot





TEST NUMBER: P755239

CATALOG NUMBER: LD4D85BD010-EU4DR7070959050-4LBDP1LI

**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			
1	112	109	106	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83			
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	78	76			
4	94	86	80	75	92	85	79	74	82	77	73	80	76	73	78	75	72	70			
5	89	80	74	69	87	79	73	69	77	72	68	75	71	67	74	70	67	65			
6	85	75	68	64	83	74	68	64	73	67	63	71	66	63	70	66	62	61			
7	80	70	64	59	79	70	64	59	68	63	59	67	62	59	66	62	58	57			
8	77	66	60	56	75	66	60	56	65	59	55	64	59	55	63	58	55	53			
9	73	63	57	52	72	62	56	52	61	56	52	60	55	52	60	55	52	50			
10	70	59	53	49	69	59	53	49	58	53	49	57	52	49	57	52	49	48			

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

	0°
0°	1123758
5°	1090365
10°	1059970
15°	1046065
20°	976808
25°	733824
30°	518759
35°	183748
40°	96617
45°	102909
50°	106560
55°	108560
60°	109239
65°	106929
70°	100916
75°	93506
80°	82992
85°	67320

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 57.5°  
 Luminance: 109281 cd/sqm



TEST NUMBER: P755239

CATALOG NUMBER: LD4D85BD010-EU4DR7070959050-4LBDP1LI

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	937.7	10.3
10°-20°	2572.1	28.1
20°-30°	2832.8	31.0
30°-40°	1082.3	11.8
40°-50°	511.0	5.6
50°-60°	508.1	5.6
60°-70°	406.8	4.4
70°-80°	233.8	2.6
80°-90°	63.6	0.7
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°	6342.5	69.3
0°-40°	7424.9	81.2
0°-60°	8444.0	92.3
0°-90°	9148.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9148.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	10285	
5°	9942	938
15°	9248	2572
25°	6087	2833
35°	1378	1082
45°	666	511
55°	570	508
65°	414	407
75°	222	234
85°	54	64
90°	0	



TEST NUMBER: P755239

CATALOG NUMBER: LD4D85BD010-EU4DR7070959050-4LBDP1LI

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	10285.1
2.5°	10177.6
5°	9941.5
7.5°	9744.5
10°	9553.9
12.5°	9392.7
15°	9247.8
17.5°	8897.7
20°	8401.0
22.5°	7329.5
25°	6087.0
27.5°	5298.9
30°	4111.8
32.5°	2656.0
35°	1377.6
37.5°	744.2
40°	677.4
42.5°	672.5
45°	666.0
47.5°	651.4
50°	626.9
52.5°	599.3
55°	569.9
57.5°	537.4
60°	499.9
62.5°	457.6
65°	413.6
67.5°	364.8
70°	315.9
72.5°	267.1
75°	221.5
77.5°	174.2
80°	131.9
82.5°	92.8
85°	53.7
87.5°	21.2
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)