

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: P755213

Luminaire Tested: LD4D85BD010-EU4DR7070959035-4LBDP1LI

Issue Date: 2/5/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P755213  
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-EU4DR7070959035-4LBDP1LI  
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 70° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8677.5 lumens  
Efficiency: N/A  
Efficacy: 98.9 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

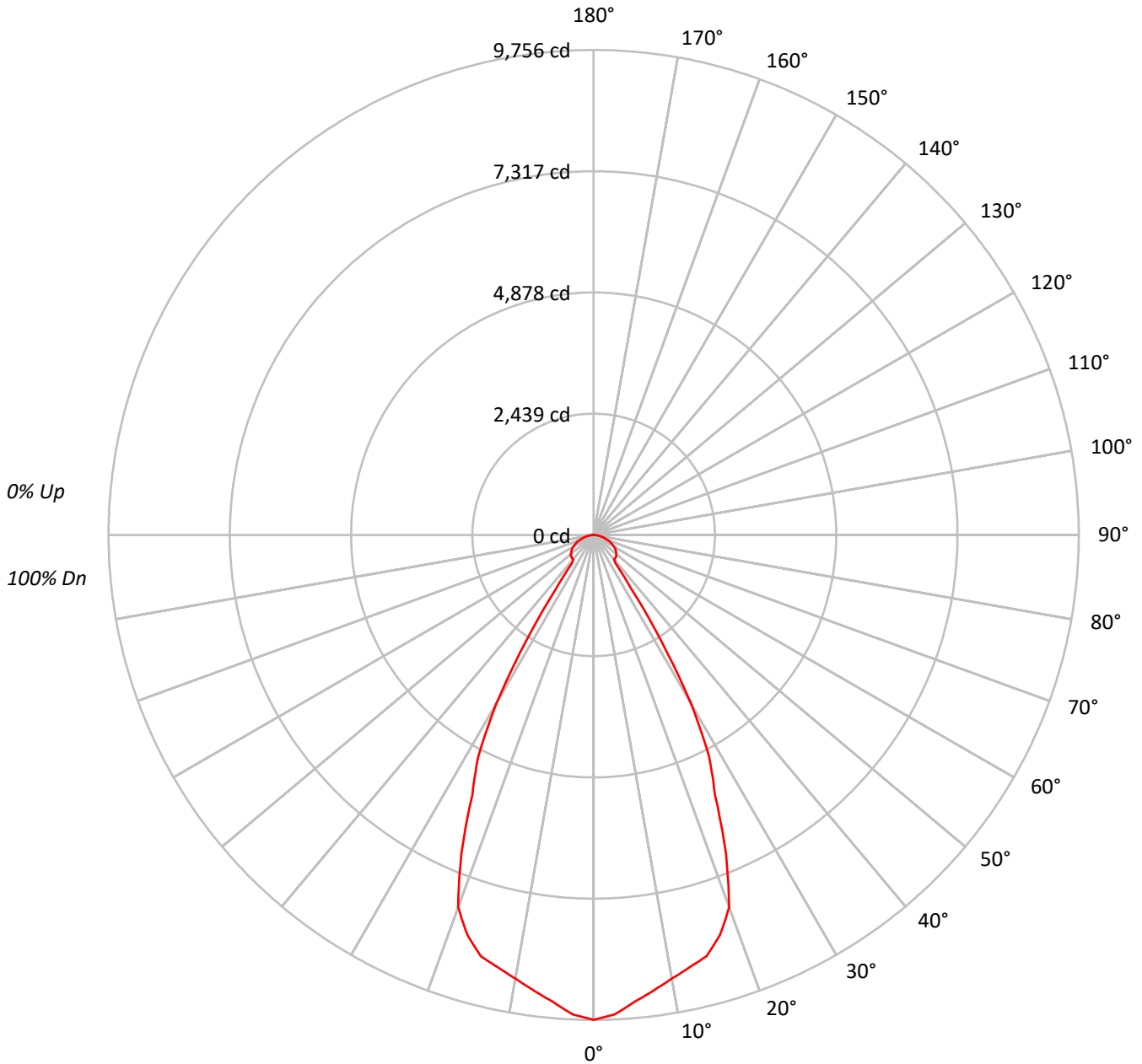
Input Watts (W): 87.7  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



Downlight

TEST NUMBER: P755213  
CATALOG NUMBER: LD4D85BD010-EU4DR7070959035-4LBDP1LI

### Luminous Intensity Polar Plot





TEST NUMBER: P755213

CATALOG NUMBER: LD4D85BD010-EU4DR7070959035-4LBDP1LI

**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	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°	1065948
5°	1034276
10°	1005451
15°	992257
20°	926567
25°	696078
30°	492075
35°	174305
40°	91654
45°	97624
50°	101087
55°	102979
60°	103623
65°	101422
70°	95741
75°	88694
80°	78714
85°	63935

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 57.5°  
 Luminance: 103648 cd/sqm



TEST NUMBER: P755213

CATALOG NUMBER: LD4D85BD010-EU4DR7070959035-4LBDP1LI

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	889.5	10.3
10°-20°	2439.8	28.1
20°-30°	2687.1	31.0
30°-40°	1026.7	11.8
40°-50°	484.8	5.6
50°-60°	481.9	5.6
60°-70°	385.8	4.4
70°-80°	221.8	2.6
80°-90°	60.3	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°	6016.3	69.3
0°-40°	7042.9	81.2
0°-60°	8009.6	92.3
0°-90°	8677.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8677.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	9756	
5°	9430	889
15°	8772	2440
25°	5774	2687
35°	1307	1027
45°	632	485
55°	541	482
65°	392	386
75°	210	222
85°	51	60
90°	0	



TEST NUMBER: P755213

CATALOG NUMBER: LD4D85BD010-EU4DR7070959035-4LBDP1LI

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	9756.0
2.5°	9654.1
5°	9430.1
7.5°	9243.2
10°	9062.5
12.5°	8909.6
15°	8772.1
17.5°	8440.0
20°	7968.9
22.5°	6952.5
25°	5773.9
27.5°	5026.3
30°	3900.3
32.5°	2519.3
35°	1306.8
37.5°	705.9
40°	642.6
42.5°	637.9
45°	631.8
47.5°	617.9
50°	594.7
52.5°	568.4
55°	540.6
57.5°	509.7
60°	474.2
62.5°	434.0
65°	392.3
67.5°	346.0
70°	299.7
72.5°	253.3
75°	210.1
77.5°	165.3
80°	125.1
82.5°	88.0
85°	51.0
87.5°	20.1
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)