

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: P755238

Luminaire Tested: LD4D85BD010-EU4DR7070959050-4LBDP1H

Issue Date: 2/5/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P755238  
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-EU4DR7070959050-4LBDP1H  
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-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: 8712.5 lumens  
Efficiency: N/A  
Efficacy: 99.3 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

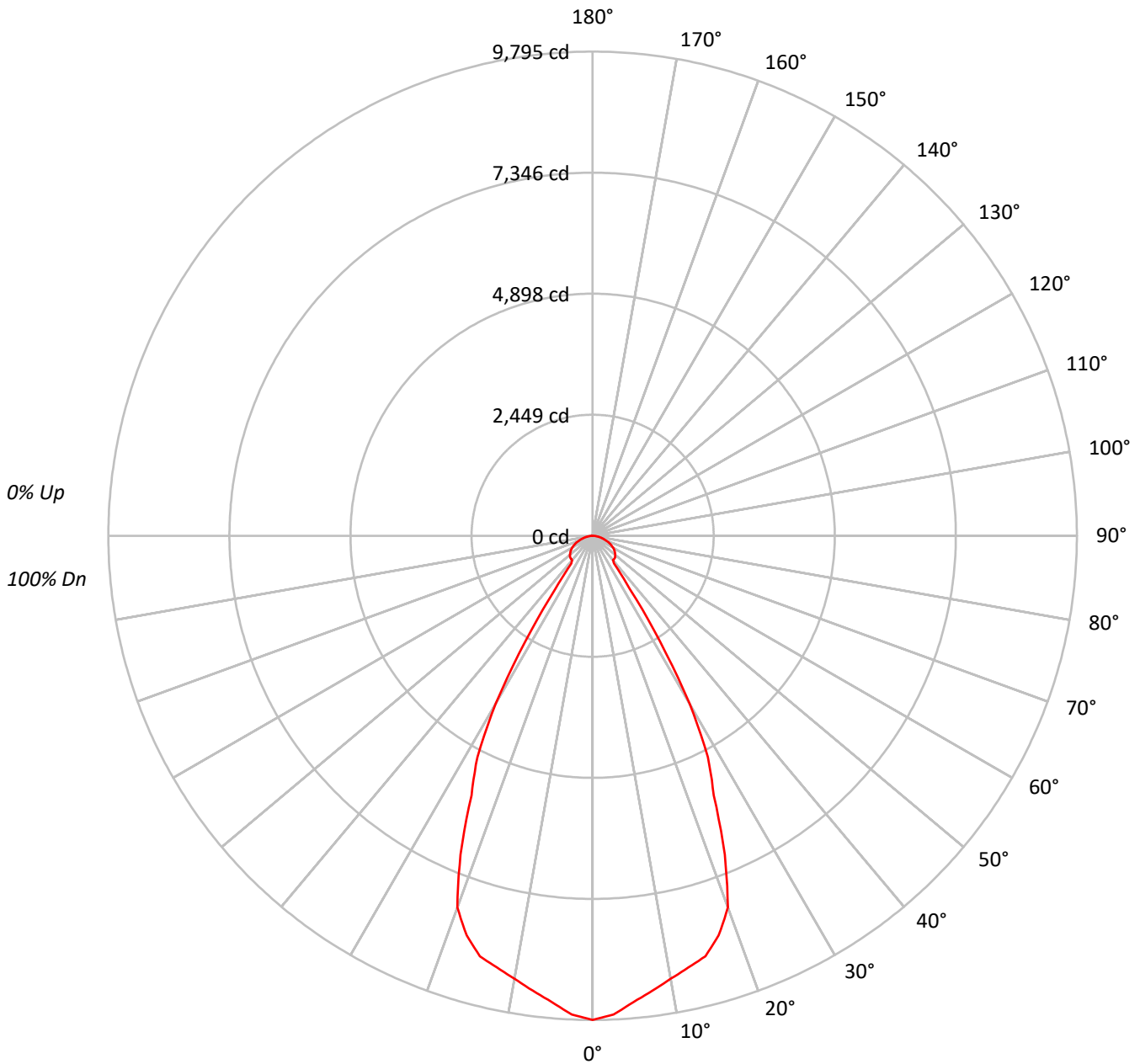
Input Watts (W): 87.7  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



Downlight

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### Luminous Intensity Polar Plot





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**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
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°	1070242
5°	1038443
10°	1009500
15°	996250
20°	930299
25°	698887
30°	494056
35°	174998
40°	92025
45°	98011
50°	101495
55°	103398
60°	104038
65°	101836
70°	96125
75°	89032
80°	79028
85°	64186

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 57.5°  
 Luminance: 104075 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	893.0	10.3
10°-20°	2449.6	28.1
20°-30°	2697.9	31.0
30°-40°	1030.8	11.8
40°-50°	486.7	5.6
50°-60°	483.9	5.6
60°-70°	387.4	4.4
70°-80°	222.6	2.6
80°-90°	60.5	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°	6040.5	69.3
0°-40°	7071.3	81.2
0°-60°	8041.9	92.3
0°-90°	8712.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8712.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	9795	
5°	9468	893
15°	8807	2450
25°	5797	2698
35°	1312	1031
45°	634	487
55°	543	484
65°	394	387
75°	211	223
85°	51	61
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	9795.3
2.5°	9693.0
5°	9468.1
7.5°	9280.5
10°	9099.0
12.5°	8945.5
15°	8807.4
17.5°	8474.0
20°	8001.0
22.5°	6980.5
25°	5797.2
27.5°	5046.6
30°	3916.0
32.5°	2529.5
35°	1312.0
37.5°	708.8
40°	645.2
42.5°	640.5
45°	634.3
47.5°	620.4
50°	597.1
52.5°	570.7
55°	542.8
57.5°	511.8
60°	476.1
62.5°	435.8
65°	393.9
67.5°	347.4
70°	300.9
72.5°	254.3
75°	210.9
77.5°	165.9
80°	125.6
82.5°	88.4
85°	51.2
87.5°	20.2
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

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— 0°-180°

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(END OF REPORT)