

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: P755011

Luminaire Tested: LD4D85BD010-EU4DR5570959050-4LBSQW1B

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P755011  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-52)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/30/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LD4D85BD010-EU4DR5570959050-4LBSQW1B  
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 55° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

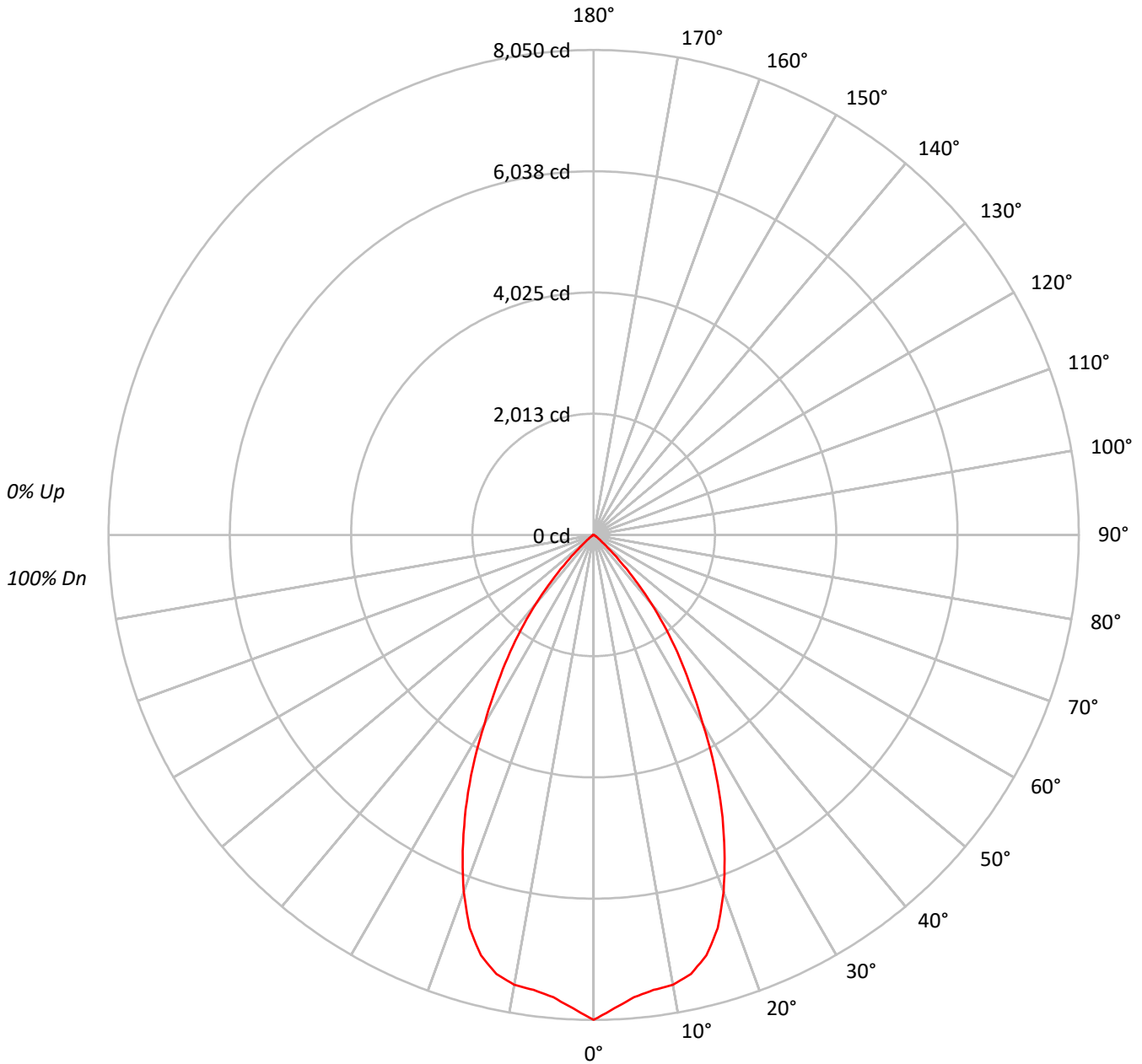
Lumens per Lamp: N/A  
Luminaire Lumens: 7178.4 lumens  
Efficiency: N/A  
Efficacy: 81.9 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 0.89 / 0.87  
Luminous Opening: Circular (Dia: 0.35' x H: 0')  
CIE Type: Direct

Input Watts (W): 87.7  
Input Voltage (V): NR  
Input Current (Ain): 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



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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	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				
1	114	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	94				
2	108	103	99	96	106	101	98	95	98	95	92	95	93	90	92	90	89	87				
3	102	96	91	87	100	95	90	86	92	88	85	90	86	84	87	85	82	81				
4	97	90	84	80	95	88	83	79	86	82	78	84	81	78	82	79	77	75				
5	92	84	78	74	91	83	77	73	81	76	73	79	75	72	78	74	71	70				
6	88	79	73	68	86	78	72	68	76	71	68	75	70	67	74	70	67	65				
7	83	74	68	64	82	73	67	63	72	67	63	71	66	63	70	65	62	61				
8	79	69	63	59	78	69	63	59	68	63	59	67	62	59	66	62	58	57				
9	75	66	60	56	74	65	59	55	64	59	55	63	58	55	62	58	55	54				
10	72	62	56	52	71	61	56	52	61	56	52	60	55	52	59	55	52	50				

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

	0°
0°	879494
5°	844565
10°	841383
15°	817211
20°	732740
25°	605576
30°	457431
35°	331683
40°	212262
45°	96945
50°	31701
55°	13677
60°	5878
65°	776
70°	0
75°	0
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 96945 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	732.7	10.2
10°-20°	1999.8	27.9
20°-30°	2278.9	31.7
30°-40°	1551.4	21.6
40°-50°	534.6	7.4
50°-60°	73.9	1.0
60°-70°	7.1	0.1
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°	5011.4	69.8
0°-40°	6562.8	91.4
0°-60°	7171.3	99.9
0°-90°	7178.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7178.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	8050	
5°	7700	733
15°	7225	2000
25°	5023	2279
35°	2487	1551
45°	627	535
55°	72	74
65°	3	7
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	8049.5
2.5°	7864.9
5°	7700.4
7.5°	7619.6
10°	7583.7
12.5°	7464.0
15°	7224.6
17.5°	6844.5
20°	6301.9
22.5°	5675.5
25°	5023.2
27.5°	4343.9
30°	3625.7
32.5°	3017.3
35°	2486.7
37.5°	1981.9
40°	1488.2
42.5°	1031.4
45°	627.4
47.5°	338.1
50°	186.5
52.5°	110.7
55°	71.8
57.5°	45.9
60°	26.9
62.5°	12.0
65°	3.0
67.5°	1.0
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

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— 0°-180°

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(END OF REPORT)