

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: P755246

Luminaire Tested: LD4D85BD010-EU4DR7070959050-4LBSQW1MW

Issue Date: 2/5/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P755246  
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-EU4DR7070959050-4LBSQW1MW  
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 70° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

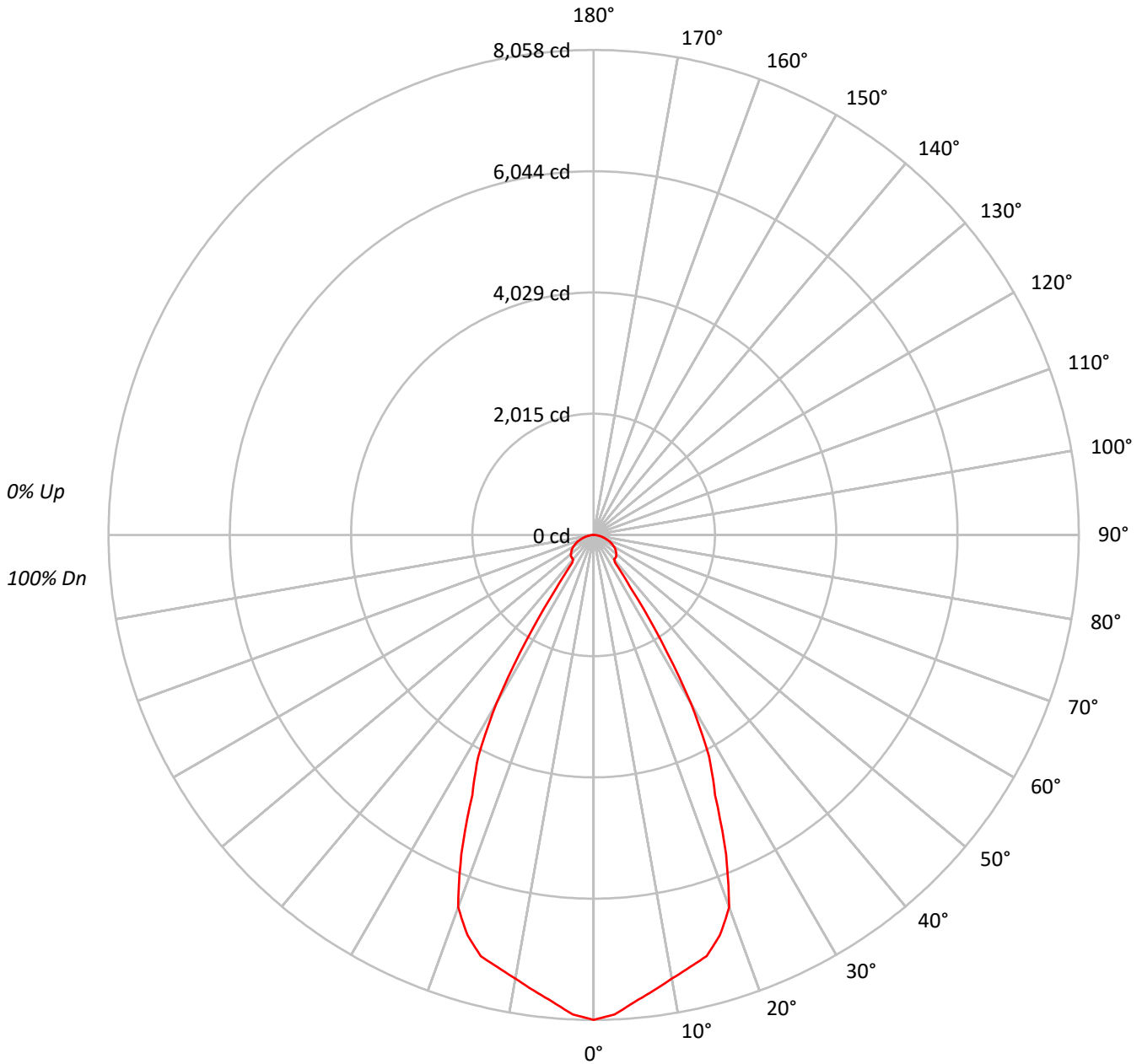
Lumens per Lamp: N/A  
Luminaire Lumens: 7167.5 lumens  
Efficiency: N/A  
Efficacy: 81.7 lumens/watt  
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.82  
Luminous Opening: Circular (Dia: 0.35' x H: 0')  
CIE Type: Direct

Input Watts (W): 87.7  
Input Voltage (V): NR  
Input Current (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	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°	880467
5°	854294
10°	830488
15°	819586
20°	765331
25°	574955
30°	406448
35°	143973
40°	75708
45°	80628
50°	83494
55°	85073
60°	85595
65°	83791
70°	79066
75°	73243
80°	64997
85°	52778

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 57.5°  
 Luminance: 85611 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	734.7	10.3
10°-20°	2015.2	28.1
20°-30°	2219.5	31.0
30°-40°	848.0	11.8
40°-50°	400.4	5.6
50°-60°	398.1	5.6
60°-70°	318.7	4.4
70°-80°	183.1	2.6
80°-90°	49.8	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°	4969.4	69.3
0°-40°	5817.4	81.2
0°-60°	6615.8	92.3
0°-90°	7167.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7167.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	8058	
5°	7789	735
15°	7246	2015
25°	4769	2219
35°	1079	848
45°	522	400
55°	447	398
65°	324	319
75°	174	183
85°	42	50
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	8058.4
2.5°	7974.1
5°	7789.1
7.5°	7634.8
10°	7485.5
12.5°	7359.2
15°	7245.6
17.5°	6971.3
20°	6582.2
22.5°	5742.7
25°	4769.2
27.5°	4151.7
30°	3221.6
32.5°	2080.9
35°	1079.4
37.5°	583.1
40°	530.8
42.5°	526.9
45°	521.8
47.5°	510.3
50°	491.2
52.5°	469.5
55°	446.6
57.5°	421.0
60°	391.7
62.5°	358.5
65°	324.1
67.5°	285.8
70°	247.5
72.5°	209.2
75°	173.5
77.5°	136.5
80°	103.3
82.5°	72.7
85°	42.1
87.5°	16.6
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)