

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: P749852

Luminaire Tested: LD4D55D010-EU4DR2555659050-4LBCSSQMB

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P749852  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-4)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/30/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LD4D55D010-EU4DR2555659050-4LBCSSQMB  
Description: 4 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 25° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

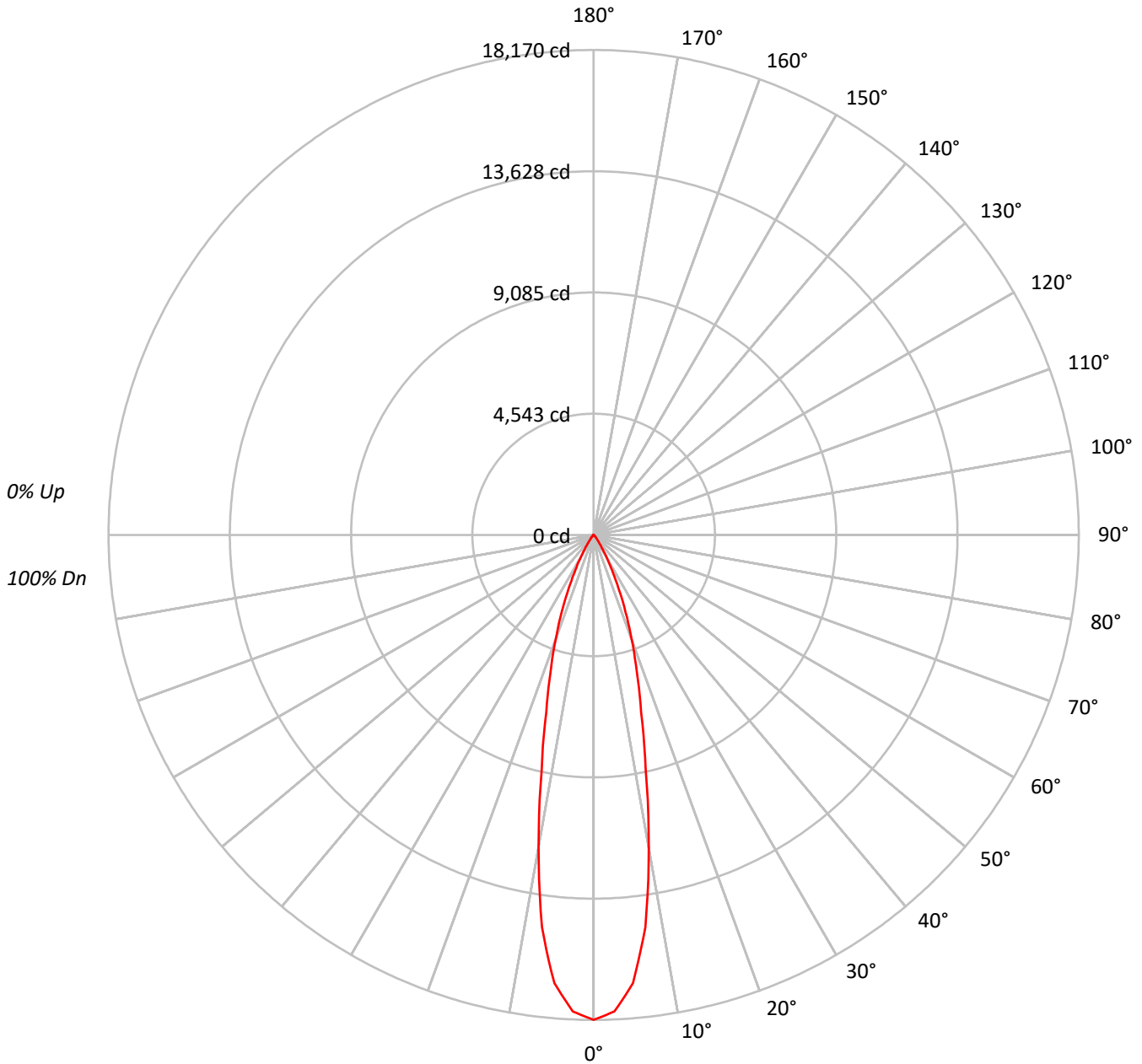
Lumens per Lamp: N/A  
Luminaire Lumens: 4790.6 lumens  
Efficiency: N/A  
Efficacy: 82.3 lumens/watt  
Spacing Criteria (0/90/45): 0.42 / 0.42 / 0.45  
Luminous Opening: Circular (Dia: 0.35' x H: 0')  
CIE Type: Direct

Input Watts (W): 58.2  
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																		
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	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	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96																												
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92																												
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89																												
4	103	97	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85																												
5	100	93	89	86	98	93	89	86	91	87	85	89	86	84	88	85	83	82																												
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79																												
7	93	87	82	79	92	86	82	79	85	81	78	84	80	78	83	80	78	77																												
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74																												
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72																												
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69																												

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

	0°
0°	1985213
5°	1848976
10°	1318929
15°	776795
20°	483335
25°	265259
30°	121306
35°	45937
40°	20810
45°	12516
50°	5184
55°	3353
60°	2338
65°	1577
70°	256
75°	0
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 12516 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1448.8	30.2
10°-20°	1962.3	41.0
20°-30°	1038.4	21.7
30°-40°	256.3	5.4
40°-50°	62.6	1.3
50°-60°	16.4	0.3
60°-70°	5.5	0.1
70°-80°	0.1	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°	4449.6	92.9
0°-40°	4705.9	98.2
0°-60°	4784.9	99.9
0°-90°	4790.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4790.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	18170	
5°	16858	###
15°	6867	1962
25°	2200	1038
35°	344	256
45°	81	63
55°	18	16
65°	6	6
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	18169.5
2.5°	17870.9
5°	16858.2
7.5°	14823.7
10°	11888.0
12.5°	8986.6
15°	6867.3
17.5°	5352.1
20°	4156.9
22.5°	3117.5
25°	2200.3
27.5°	1475.5
30°	961.5
32.5°	585.0
35°	344.4
37.5°	210.8
40°	145.9
42.5°	111.5
45°	81.0
47.5°	48.9
50°	30.5
52.5°	22.1
55°	17.6
57.5°	13.7
60°	10.7
62.5°	8.4
65°	6.1
67.5°	2.3
70°	0.8
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)