

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: P747512

Luminaire Tested: LD4D40BD010-EU4DR2540509050-4LBCSSQMB

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P747512  
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: LD4D40BD010-EU4DR2540509050-4LBCSSQMB  
Description: 4 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 25° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

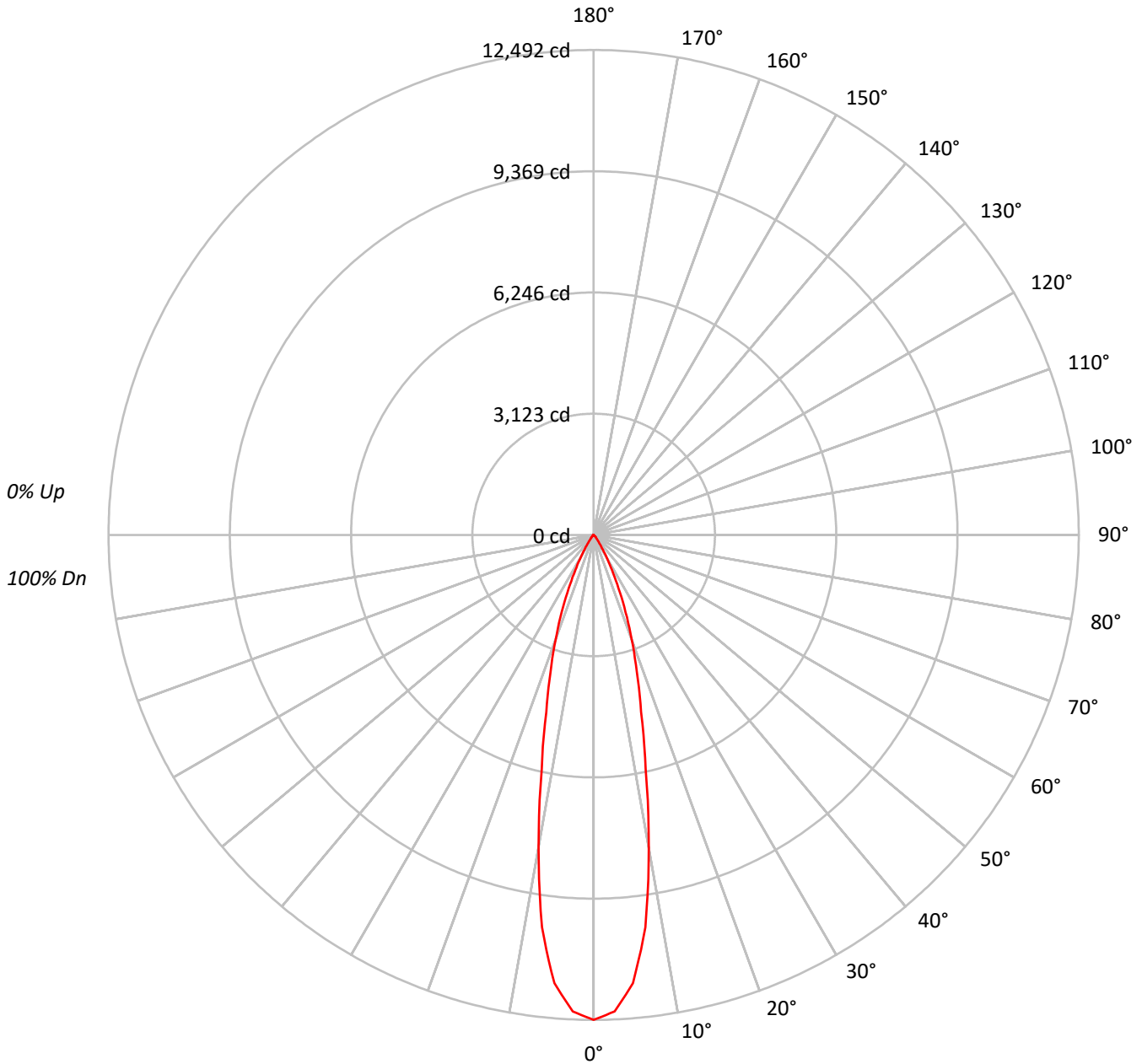
Lumens per Lamp: N/A  
Luminaire Lumens: 3293.8 lumens  
Efficiency: N/A  
Efficacy: 93.6 lumens/watt  
Spacing Criteria (0/90/45): 0.42 / 0.42 / 0.45  
Luminous Opening: Circular (Dia: 0.35' x H: 0')  
CIE Type: Direct

Input Watts (W): 35.2  
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				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			100
1	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96			96
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92			92
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89			89
4	103	97	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85			85
5	100	93	89	86	98	93	89	86	91	87	85	89	86	84	88	85	83	82			82
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79			79
7	93	87	82	79	92	86	82	79	85	81	78	84	80	78	83	80	78	77			77
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74			74
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72			72
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69			69

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

	0°
0°	1364940
5°	1271268
10°	906830
15°	534084
20°	332319
25°	182377
30°	83407
35°	31585
40°	14306
45°	8607
50°	3570
55°	2305
60°	1617
65°	1086
70°	160
75°	0
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 8607 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	996.1	30.2
10°-20°	1349.2	41.0
20°-30°	714.0	21.7
30°-40°	176.2	5.4
40°-50°	43.0	1.3
50°-60°	11.3	0.3
60°-70°	3.8	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°	3059.3	92.9
0°-40°	3235.6	98.2
0°-60°	3289.9	99.9
0°-90°	3293.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3293.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	12492	
5°	11591	996
15°	4722	1349
25°	1513	714
35°	237	176
45°	56	43
55°	12	11
65°	4	4
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	12492.5
2.5°	12287.1
5°	11590.9
7.5°	10192.0
10°	8173.6
12.5°	6178.8
15°	4721.6
17.5°	3679.8
20°	2858.1
22.5°	2143.4
25°	1512.8
27.5°	1014.5
30°	661.1
32.5°	402.2
35°	236.8
37.5°	144.9
40°	100.3
42.5°	76.7
45°	55.7
47.5°	33.6
50°	21.0
52.5°	15.2
55°	12.1
57.5°	9.5
60°	7.4
62.5°	5.8
65°	4.2
67.5°	1.6
70°	0.5
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)