

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: P744002

Luminaire Tested: LD4D20D010-EU4DR2015309050-4LBCSSQMB

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P744002  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2310-195-36)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/2/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LD4D20D010-EU4DR2015309050-4LBCSSQMB  
Description: 4 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 20° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1957.8 lumens  
Efficiency: N/A  
Efficacy: 84.8 lumens/watt  
Spacing Criteria (0/90/45): 0.34 / 0.34 / 0.36  
Luminous Opening: Circular (Dia: 0.35' x H: 0')  
CIE Type: Direct

Input Watts (W): 23.1  
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

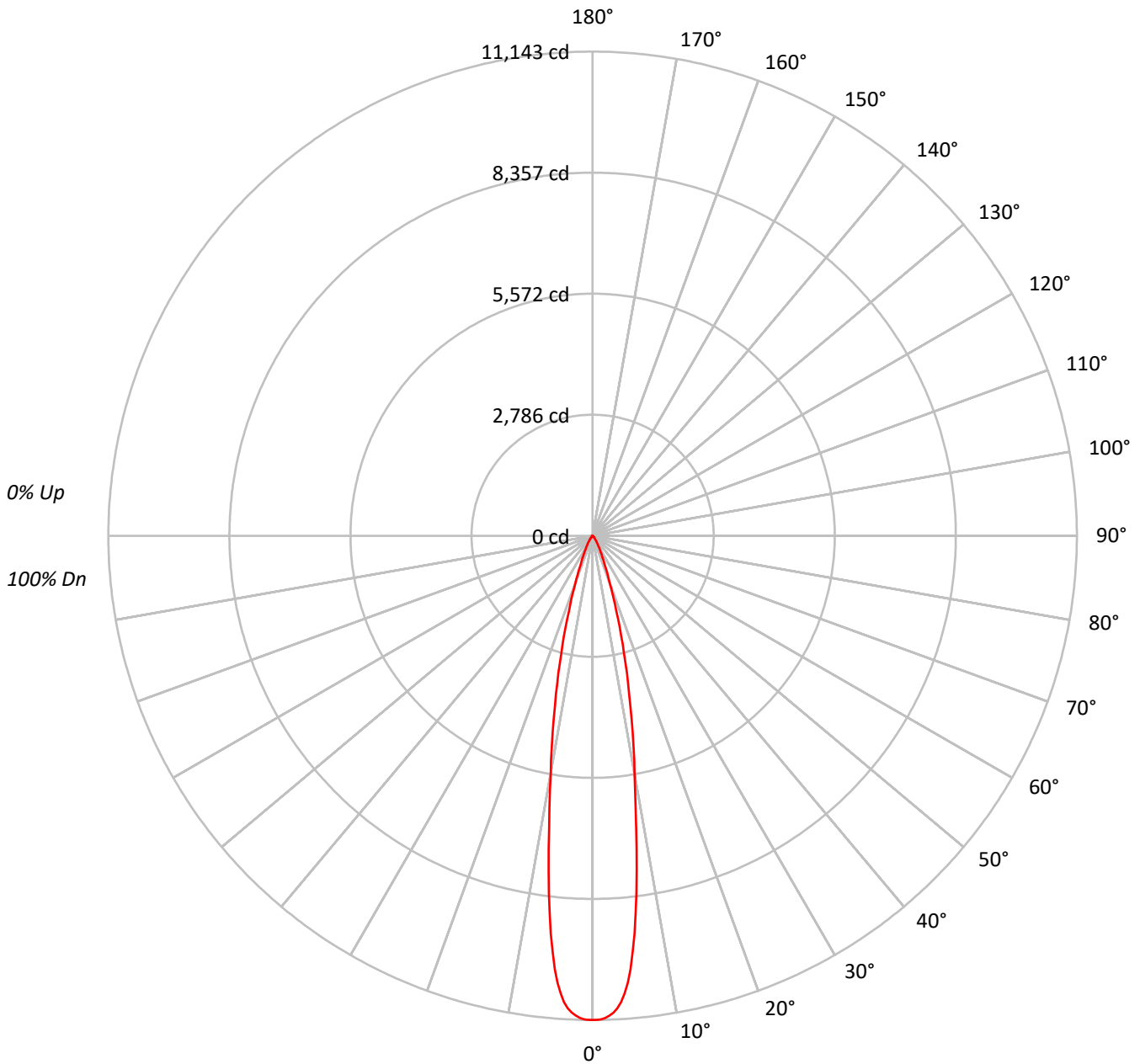


Downlight



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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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100
1	115	113	111	109	113	111	109	108	107	106	104	103	102	101	100	99	98	97	97	97	97
2	111	108	105	102	109	106	104	101	103	101	99	100	99	97	98	96	95	94	94	94	94
3	108	103	100	97	106	102	99	96	100	97	95	97	95	93	95	93	92	91	91	91	91
4	105	99	96	93	103	98	95	92	96	93	91	95	92	90	93	91	89	88	88	88	88
5	102	96	92	89	100	95	91	89	94	90	88	92	89	87	91	88	86	85	85	85	85
6	99	93	89	86	98	92	88	86	91	87	85	90	87	84	88	86	84	83	83	83	83
7	96	90	86	83	95	89	86	83	88	85	82	87	84	82	86	84	82	81	81	81	81
8	94	87	83	81	93	87	83	80	86	83	80	85	82	80	84	82	80	79	79	79	79
9	91	85	81	78	91	85	81	78	84	80	78	83	80	78	82	80	78	77	77	77	77
10	89	83	79	76	88	82	79	76	82	78	76	81	78	76	81	78	76	75	75	75	75

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

	0°
0°	1217536
5°	1098448
10°	616506
15°	313385
20°	132679
25°	61254
30°	32424
35°	17473
40°	9342
45°	5516
50°	3213
55°	1695
60°	1093
65°	776
70°	319
75°	0
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 5516 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	793.4	40.5
10°-20°	781.2	39.9
20°-30°	255.2	13.0
30°-40°	86.9	4.4
40°-50°	29.2	1.5
50°-60°	8.8	0.4
60°-70°	3.0	0.2
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°	1829.9	93.5
0°-40°	1916.8	97.9
0°-60°	1954.8	99.8
0°-90°	1957.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1957.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	11143	
5°	10015	793
15°	2770	781
25°	508	255
35°	131	87
45°	36	29
55°	9	9
65°	3	3
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	11143.4
0.5°	11143.4
1°	11129.5
1.5°	11101.8
2°	11051.2
2.5°	10983.7
3°	10888.4
3.5°	10755.5
4°	10558.0
4.5°	10317.9
5°	10015.2
5.5°	9617.3
6°	9209.5
6.5°	8742.1
7°	8284.6
7.5°	7748.8
8°	7270.5
8.5°	6789.3
9°	6344.7
9.5°	5936.9
10°	5556.8
12.5°	3990.0
15°	2770.5
17.5°	1809.9
20°	1141.1
22.5°	739.3
25°	508.1
27.5°	357.2
30°	257.0
32.5°	184.6
35°	131.0
37.5°	91.3
40°	65.5
42.5°	47.6
45°	35.7
47.5°	27.8
50°	18.9
52.5°	11.9
55°	8.9
57.5°	6.9
60°	5.0
62.5°	4.0
65°	3.0



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**CANDELA DISTRIBUTION (continued):**

	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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Scaled Data Report





— 0°-180°

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Scaled Data Report



67.5°		2.0
70°		1.0

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Scaled Data Report



(END OF REPORT)