

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: P777647

Luminaire Tested: LERS4D08D010-EC4DR200210IC9040-4LBS1MW

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P777647  
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: LERS4D08D010-EC4DR200210IC9040-4LBS1MW  
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 20° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 859.3 lumens  
Efficiency: N/A  
Efficacy: 96.6 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): 8.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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



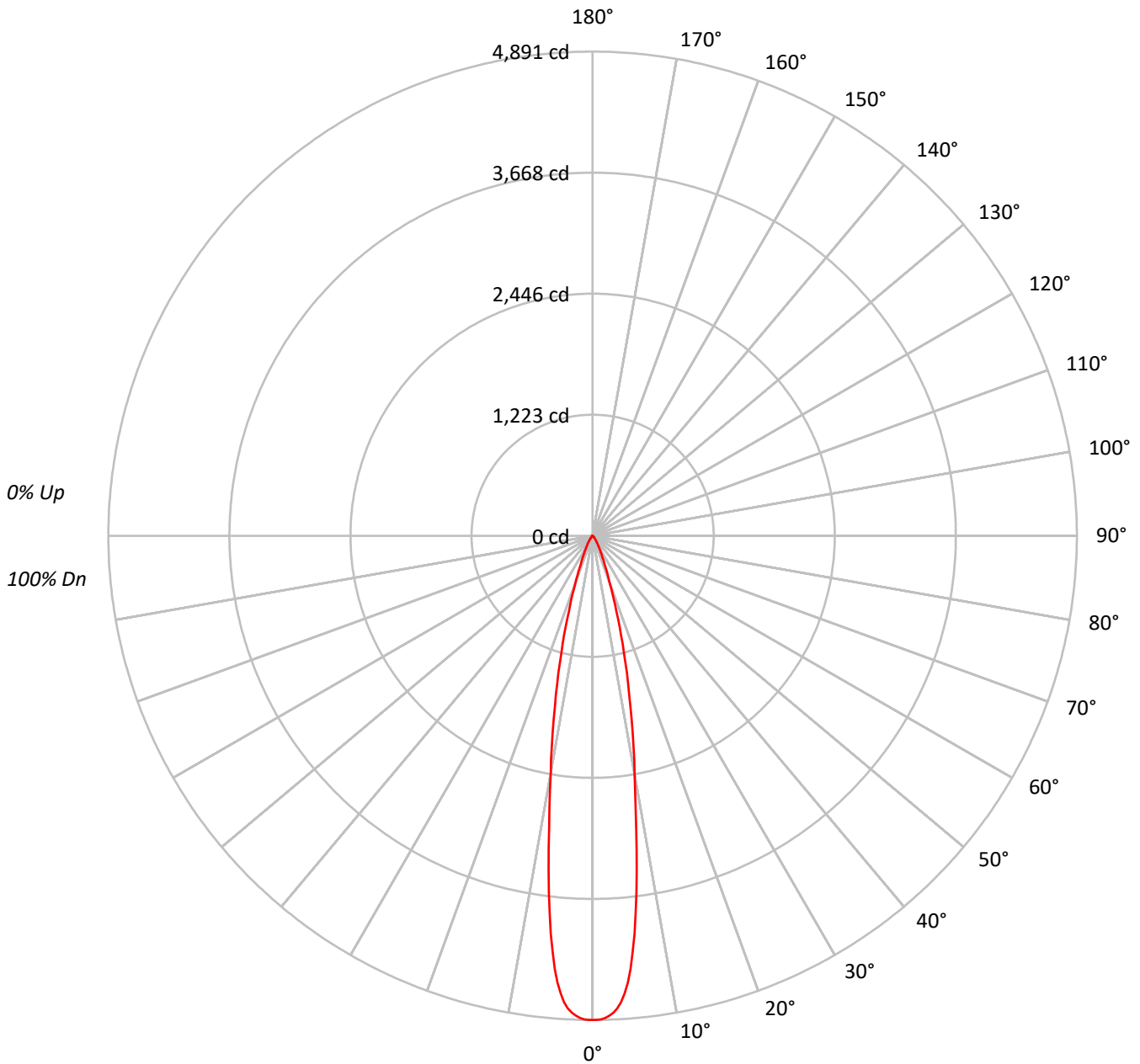
Downlight



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20									
RC	80									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	113	111	109	108	107	106	104	103	102	101	100	99	98	97	97	98	97																
2	111	108	105	102	109	106	104	101	103	101	99	100	99	97	98	96	95	94	94	98	94																
3	108	103	100	97	106	102	99	96	100	97	95	97	95	93	95	93	92	91	91	98	91																
4	105	99	96	93	103	98	95	92	96	93	91	95	92	90	93	91	89	88	88	93	89																
5	102	96	92	89	100	95	91	89	94	90	88	92	89	87	91	88	86	85	85	91	86																
6	99	93	89	86	98	92	88	86	91	87	85	90	87	84	88	86	84	83	83	88	84																
7	96	90	86	83	95	89	86	83	88	85	82	87	84	82	86	84	82	81	81	86	82																
8	94	87	83	81	93	87	83	80	86	83	80	85	82	80	84	82	80	79	79	84	80																
9	91	85	81	78	91	85	81	78	84	80	78	83	80	78	82	80	78	77	77	82	78																
10	89	83	79	76	88	82	79	76	82	78	76	81	78	76	81	78	76	75	75	81	76																

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

	0°
0°	534427
5°	482156
10°	270609
15°	137559
20°	58241
25°	26884
30°	14231
35°	7670
40°	4093
45°	2426
50°	1411
55°	743
60°	481
65°	336
70°	128
75°	0
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 2426 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	348.3	40.5
10°-20°	342.9	39.9
20°-30°	112.0	13.0
30°-40°	38.1	4.4
40°-50°	12.8	1.5
50°-60°	3.8	0.4
60°-70°	1.3	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°	803.2	93.5
0°-40°	841.3	97.9
0°-60°	858.0	99.8
0°-90°	859.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	859.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4891	
5°	4396	348
15°	1216	343
25°	223	112
35°	58	38
45°	16	13
55°	4	4
65°	1	1
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	4891.3
0.5°	4891.3
1°	4885.2
1.5°	4873.0
2°	4850.8
2.5°	4821.2
3°	4779.4
3.5°	4721.0
4°	4634.3
4.5°	4528.9
5°	4396.1
5.5°	4221.4
6°	4042.4
6.5°	3837.3
7°	3636.5
7.5°	3401.3
8°	3191.3
8.5°	2980.1
9°	2785.0
9.5°	2605.9
10°	2439.1
12.5°	1751.4
15°	1216.1
17.5°	794.5
20°	500.9
22.5°	324.5
25°	223.0
27.5°	156.8
30°	112.8
32.5°	81.0
35°	57.5
37.5°	40.1
40°	28.7
42.5°	20.9
45°	15.7
47.5°	12.2
50°	8.3
52.5°	5.2
55°	3.9
57.5°	3.0
60°	2.2
62.5°	1.7
65°	1.3



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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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— 0°-180°

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67.5°		0.9
70°		0.4

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(END OF REPORT)