

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: P777948

Luminaire Tested: LERS4D10D010-EC4DR200210IC9030-4LBS1B

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P777948  
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: LERS4D10D010-EC4DR200210IC9030-4LBS1B  
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 20° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1043.1 lumens  
Efficiency: N/A  
Efficacy: 89.2 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): 11.7  
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



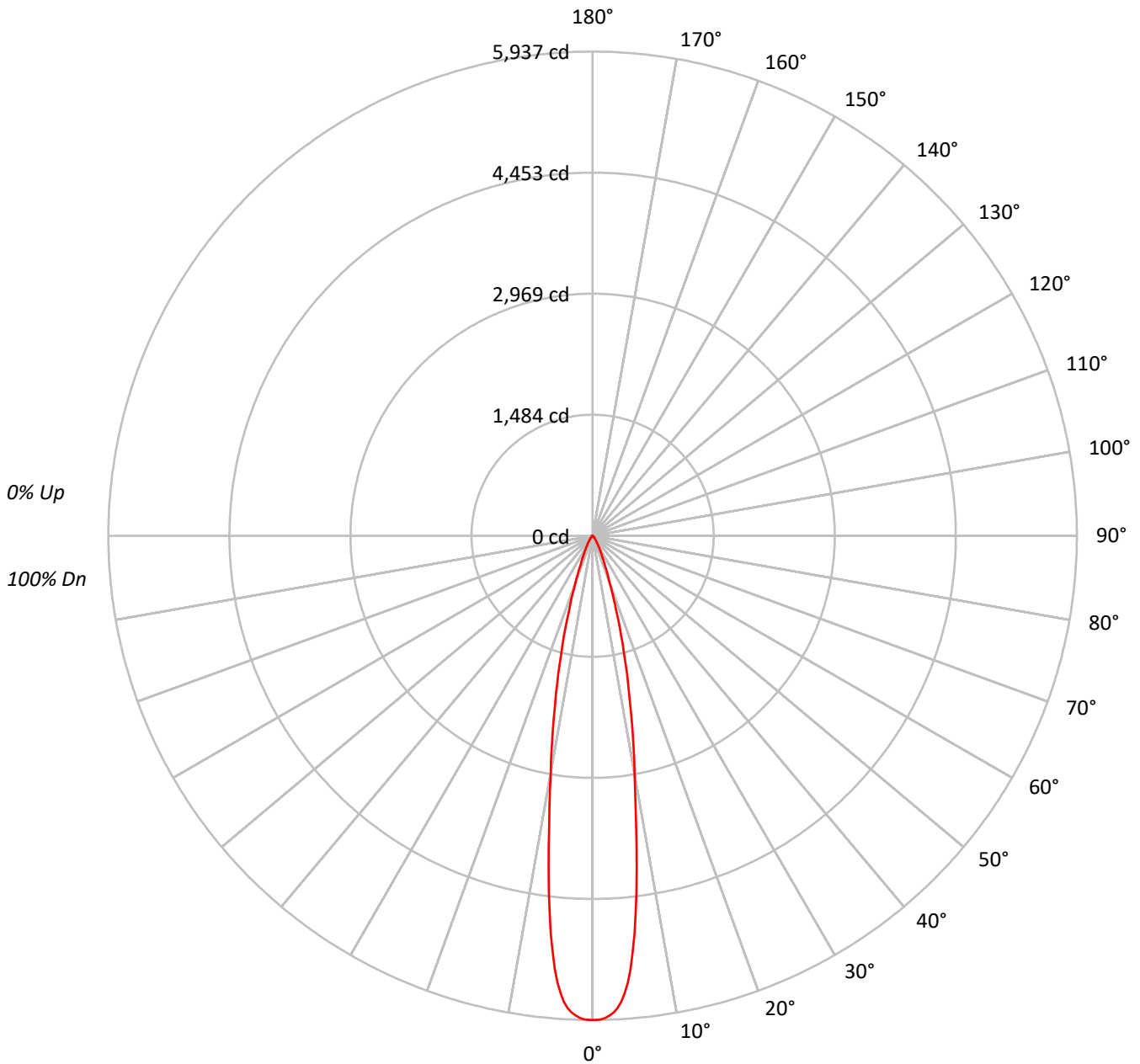
Downlight



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

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

	0°
0°	648714
5°	585264
10°	328479
15°	166969
20°	70694
25°	32634
30°	17272
35°	9310
40°	4978
45°	2936
50°	1700
55°	914
60°	568
65°	414
70°	160
75°	0
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 2936 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	422.7	40.5
10°-20°	416.2	39.9
20°-30°	136.0	13.0
30°-40°	46.3	4.4
40°-50°	15.6	1.5
50°-60°	4.7	0.4
60°-70°	1.6	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°	974.9	93.5
0°-40°	1021.2	97.9
0°-60°	1041.5	99.8
0°-90°	1043.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1043.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	5937	
5°	5336	423
15°	1476	416
25°	271	136
35°	70	46
45°	19	16
55°	5	5
65°	2	2
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	5937.3
0.5°	5937.3
1°	5929.9
1.5°	5915.1
2°	5888.1
2.5°	5852.2
3°	5801.4
3.5°	5730.6
4°	5625.4
4.5°	5497.4
5°	5336.2
5.5°	5124.1
6°	4906.9
6.5°	4657.8
7°	4414.1
7.5°	4128.6
8°	3873.8
8.5°	3617.4
9°	3380.5
9.5°	3163.2
10°	2960.7
12.5°	2125.9
15°	1476.1
17.5°	964.3
20°	608.0
22.5°	393.9
25°	270.7
27.5°	190.3
30°	136.9
32.5°	98.3
35°	69.8
37.5°	48.6
40°	34.9
42.5°	25.4
45°	19.0
47.5°	14.8
50°	10.0
52.5°	6.3
55°	4.8
57.5°	3.7
60°	2.6
62.5°	2.1
65°	1.6



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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°		1.1
70°		0.5

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Scaled Data Report



(END OF REPORT)