

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: P777950

Luminaire Tested: LERS4D10D010-EC4DR200210IC9030-4LBS1LI

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P777950
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-EC4DR200210IC9030-4LBS1LI
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 20° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1170.5 lumens
Efficiency: N/A
Efficacy: 100.0 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 (A_{in}): 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



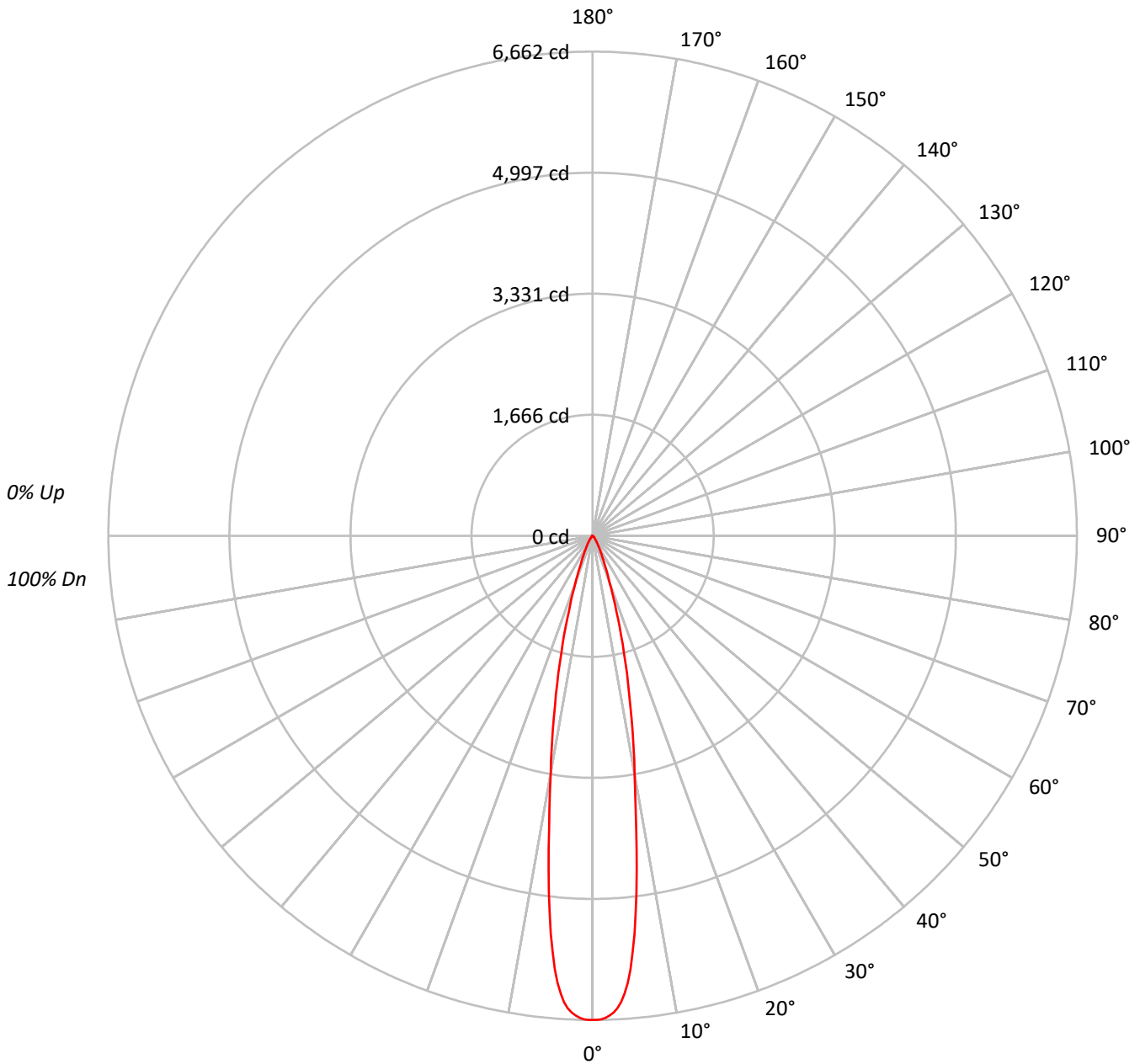
Downlight



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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									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	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	100	100	100	100	100	100	100																
	1	115	113	111	109	113	111	109	108	107	106	104	103	102	101	100	99	98	97	97	96	95	94	94	93	92	91	91	90																
	2	111	108	105	102	109	106	104	101	103	101	99	100	99	97	98	96	95	94	94	93	92	91	91	90	89	88	88	87																
	3	108	103	100	97	106	102	99	96	100	97	95	97	95	93	95	93	92	91	91	90	89	88	88	87	86	85	85	84																
	4	105	99	96	93	103	98	95	92	96	93	91	95	92	90	93	91	89	88	88	87	86	85	85	84	83	83	82	81																
	5	102	96	92	89	100	95	91	89	94	90	88	92	89	87	91	88	86	85	85	84	83	82	81	81	80	79	79	78																
	6	99	93	89	86	98	92	88	86	91	87	85	90	87	84	88	86	84	83	83	82	81	80	80	79	78	78	77	77																
	7	96	90	86	83	95	89	86	83	88	85	82	87	84	82	86	84	82	81	81	80	79	78	78	77	76	76	75	75																
	8	94	87	83	81	93	87	83	80	86	83	80	85	82	80	84	82	80	79	79	78	77	77	76	76	75	75	74	74																
	9	91	85	81	78	91	85	81	78	84	80	78	83	80	78	82	80	78	77	77	76	75	75	74	74	73	73	72	72																
	10	89	83	79	76	88	82	79	76	82	78	76	81	78	76	81	78	76	75	75	74	73	73	72	72	71	71	70	70																

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	727895
5°	656698
10°	368575
15°	187352
20°	79321
25°	36613
30°	19379
35°	10444
40°	5591
45°	3307
50°	1921
55°	1010
60°	656
65°	465
70°	192
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3307 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	474.3	40.5
10°-20°	467.1	39.9
20°-30°	152.6	13.0
30°-40°	51.9	4.4
40°-50°	17.5	1.5
50°-60°	5.3	0.4
60°-70°	1.8	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°	1094.0	93.5
0°-40°	1145.9	97.9
0°-60°	1168.7	99.8
0°-90°	1170.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1170.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6662	
5°	5988	474
15°	1656	467
25°	304	153
35°	78	52
45°	21	17
55°	5	5
65°	2	2
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	6662.0
0.5°	6662.0
1°	6653.7
1.5°	6637.1
2°	6606.9
2.5°	6566.5
3°	6509.6
3.5°	6430.1
4°	6312.0
4.5°	6168.5
5°	5987.5
5.5°	5749.6
6°	5505.8
6.5°	5226.4
7°	4952.9
7.5°	4632.6
8°	4346.6
8.5°	4058.9
9°	3793.2
9.5°	3549.3
10°	3322.1
12.5°	2385.4
15°	1656.3
17.5°	1082.1
20°	682.2
22.5°	442.0
25°	303.7
27.5°	213.6
30°	153.6
32.5°	110.3
35°	78.3
37.5°	54.6
40°	39.2
42.5°	28.5
45°	21.4
47.5°	16.6
50°	11.3
52.5°	7.1
55°	5.3
57.5°	4.2
60°	3.0
62.5°	2.4
65°	1.8



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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°		1.2
70°		0.6

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(END OF REPORT)