

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: P776981

Luminaire Tested: LERS4D02D010-EC4DR150210IC9024-4LBS1H

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P776981
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2310-195-21)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LERS4D02D010-EC4DR150210IC9024-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 323.3 lumens
Efficiency: N/A
Efficacy: 63.4 lumens/watt
Spacing Criteria (0/90/45): 0.22 / 0.22 / 0.23
Luminous Opening: Vertical Cylinder (Dia: 0.35' x H: 0.35')
CIE Type: Direct

Input Watts (W): 5.1
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



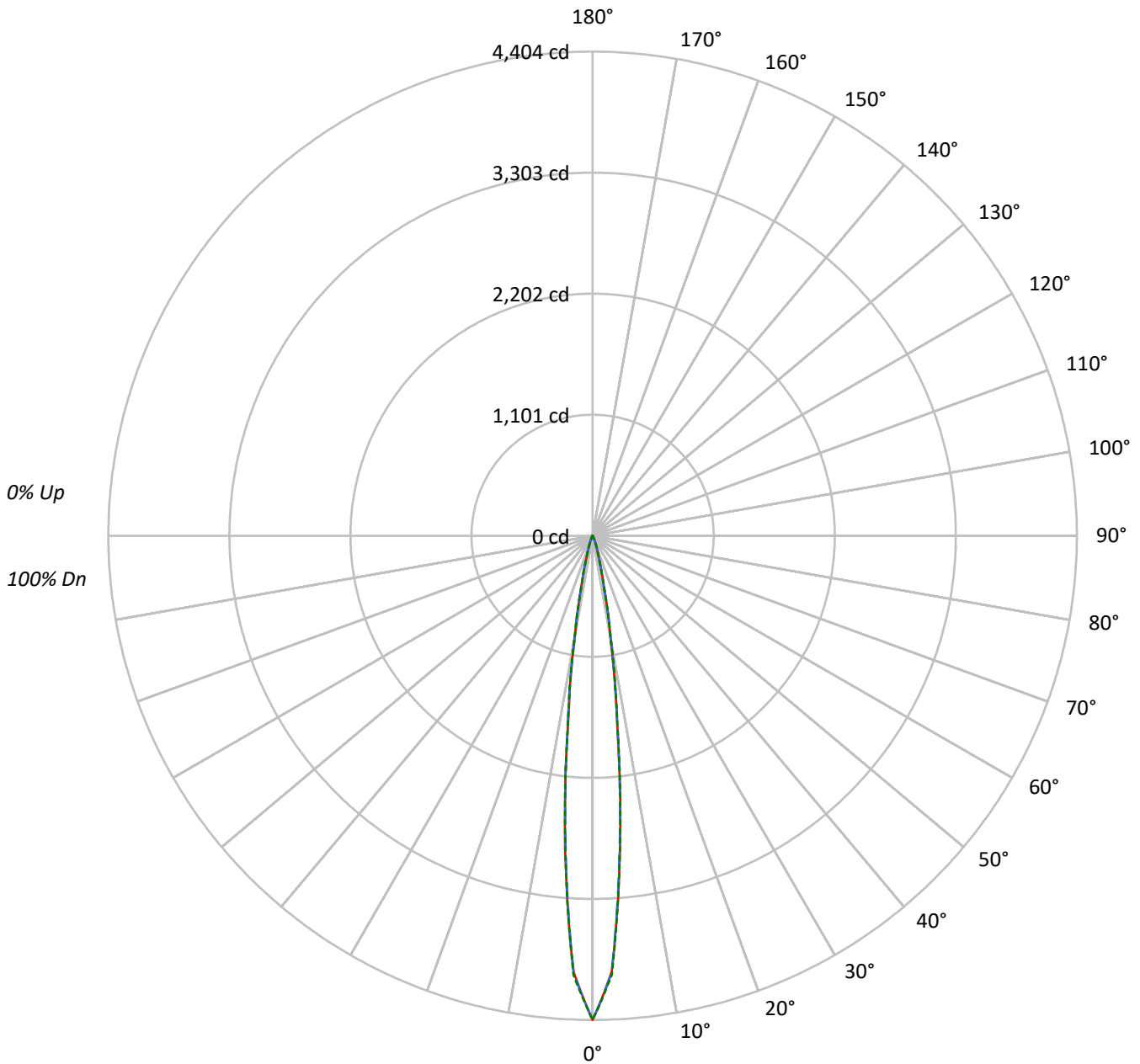
Downlight



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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	0													
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100						100													
1	116	114	112	111	113	112	110	109	108	107	106	104	103	103	101	100	100	98						98													
2	113	110	107	105	111	108	106	104	105	103	102	102	101	100	100	98	98	96						96													
3	110	106	103	101	108	105	102	100	103	100	99	100	99	97	98	97	96	94						94													
4	108	103	100	98	106	102	99	97	100	98	96	99	97	95	97	95	94	93						93													
5	106	101	98	95	104	100	97	95	98	96	94	97	95	93	96	94	92	92						92													
6	104	99	95	93	102	98	95	93	97	94	92	96	93	92	95	93	91	90						90													
7	102	97	93	91	101	96	93	91	95	93	91	94	92	90	93	91	90	89						89													
8	100	95	92	90	99	95	92	90	94	91	89	93	91	89	92	90	89	88						88													
9	99	93	90	88	98	93	90	88	92	90	88	92	89	88	91	89	87	87						87													
10	97	92	89	87	96	92	89	87	91	89	87	91	88	87	90	88	86	86						86													

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	495549	495549	495549
5°	291207	287437	289714
10°	86916	87523	88857
15°	21619	22036	21358
20°	6472	7487	6603
25°	2282	2906	2306
30°	839	1101	854
35°	421	472	407
40°	263	291	263
45°	196	210	196
50°	153	153	153
55°	132	132	132
60°	105	105	105
65°	79	79	79
70°	66	66	66
75°	45	45	53
80°	32	32	32
85°	17	17	17

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 210 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.6	64.8
10°-20°	86.2	26.7
20°-30°	17.1	5.3
30°-40°	4.3	1.3
40°-50°	2.2	0.7
50°-60°	1.7	0.5
60°-70°	1.2	0.4
70°-80°	0.7	0.2
80°-90°	0.2	0.1
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°	313.0	96.8
0°-40°	317.3	98.1
0°-60°	321.2	99.4
0°-90°	323.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	323.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4404	4404	4404	4404	4404	
5°	2865	2836	2828	2848	2851	209
15°	249	254	254	249	246	85
25°	29	33	37	33	30	15
35°	6	6	6	6	6	4
45°	3	3	3	3	3	2
55°	2	2	2	2	2	2
65°	1	1	1	1	1	1
75°	1	1	1	1	1	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4404.1	4404.1	4404.1	4404.1	4404.1
2.5°	3972.7	3976.0	3977.3	3981.2	3995.8
5°	2865.4	2835.9	2828.3	2847.9	2850.7
7.5°	1697.3	1703.3	1725.1	1730.0	1712.5
10°	931.5	939.1	938.0	944.7	952.3
12.5°	476.4	470.4	468.5	476.2	465.5
15°	248.9	253.6	253.7	249.3	245.9
17.5°	133.9	139.3	148.2	140.9	129.8
20°	79.1	83.9	91.5	85.6	80.7
22.5°	48.8	52.8	58.2	53.5	49.6
25°	29.3	33.2	37.3	33.0	29.6
27.5°	17.3	20.7	23.3	20.5	17.2
30°	11.2	13.1	14.7	12.9	11.4
32.5°	7.8	8.6	9.3	8.6	7.8
35°	5.8	6.2	6.5	6.2	5.6
37.5°	4.5	4.8	5.0	4.7	4.3
40°	3.7	3.9	4.1	3.9	3.7
42.5°	3.2	3.4	3.4	3.4	3.2
45°	2.8	2.8	3.0	2.8	2.8
47.5°	2.4	2.4	2.6	2.4	2.4
50°	2.2	2.2	2.2	2.2	2.2
52.5°	2.1	2.1	2.1	2.1	2.1
55°	1.9	1.9	1.9	1.9	1.9
57.5°	1.7	1.7	1.7	1.7	1.7
60°	1.5	1.5	1.5	1.5	1.5
62.5°	1.3	1.3	1.3	1.3	1.3
65°	1.1	1.1	1.1	1.1	1.1
67.5°	1.1	1.1	1.1	1.1	1.1
70°	0.9	0.9	0.9	0.9	0.9
72.5°	0.7	0.7	0.7	0.7	0.7
75°	0.6	0.6	0.6	0.6	0.7
77.5°	0.6	0.6	0.6	0.6	0.6
80°	0.4	0.4	0.4	0.4	0.4
82.5°	0.4	0.4	0.4	0.4	0.4
85°	0.2	0.2	0.2	0.2	0.2
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



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Scaled Data Report





— 0°-180° - - 45°-225° - - - - 90°-270°

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