

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: P777938

Luminaire Tested: LERS4D10D010-EC4DR150210IC9050-4LBS1LI

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P777938
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: LERS4D10D010-EC4DR150210IC9050-4LBS1LI
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1196.0 lumens
Efficiency: N/A
Efficacy: 102.2 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): 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



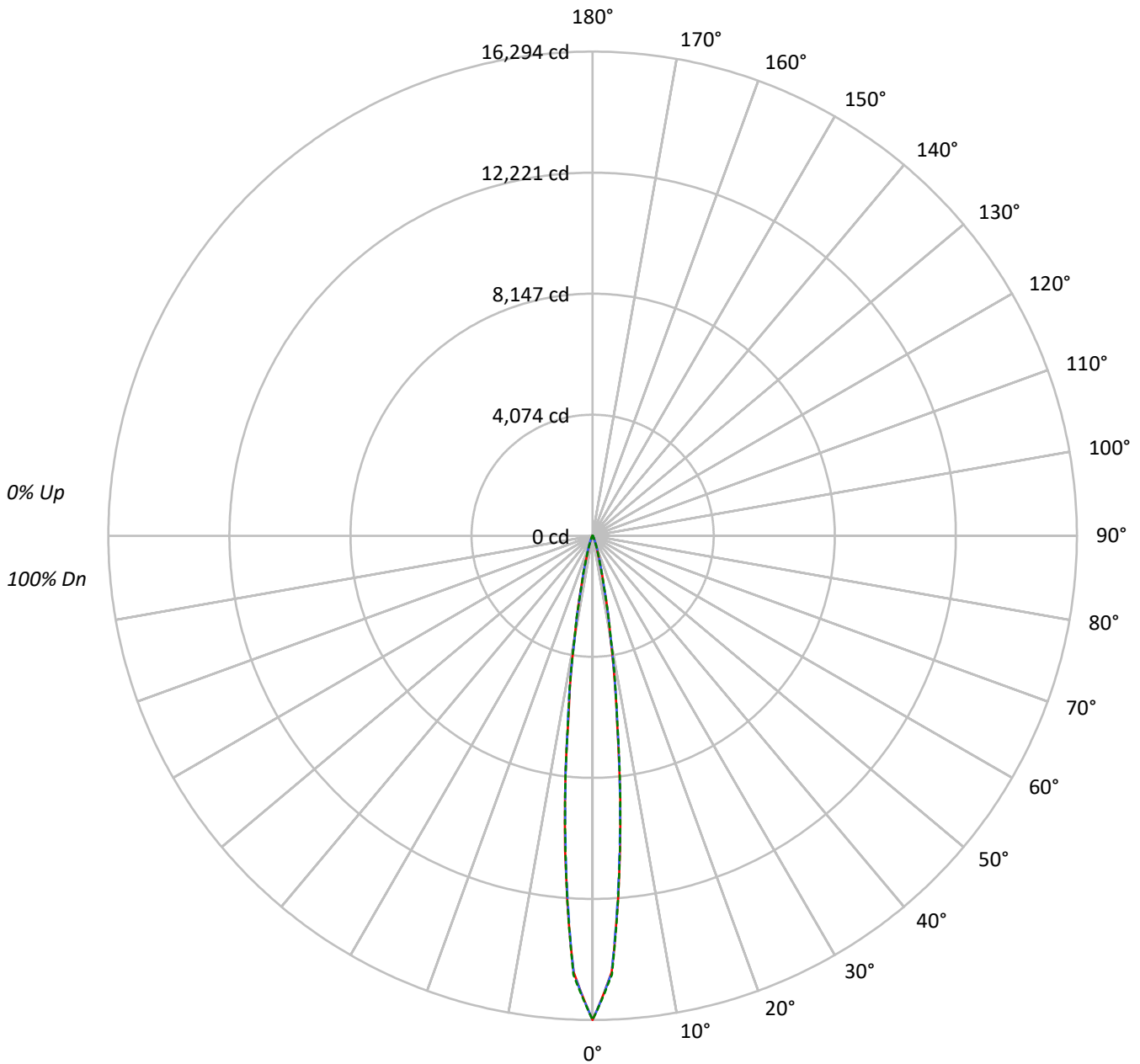
Downlight



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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	94	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	88	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°	1833456	1833456	1833456
5°	1077429	1063475	1071890
10°	321566	323815	328769
15°	79986	81541	79031
20°	23933	27713	24440
25°	8437	10750	8546
30°	3100	4081	3153
35°	1554	1750	1503
40°	980	1079	980
45°	721	770	721
50°	577	577	577
55°	480	480	480
60°	386	386	386
65°	293	293	293
70°	249	249	249
75°	159	159	212
80°	110	110	110
85°	58	58	58

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 770 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	775.7	64.9
10°-20°	319.0	26.7
20°-30°	63.4	5.3
30°-40°	15.8	1.3
40°-50°	8.3	0.7
50°-60°	6.2	0.5
60°-70°	4.3	0.4
70°-80°	2.5	0.2
80°-90°	0.8	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°	1158.1	96.8
0°-40°	1173.9	98.2
0°-60°	1188.4	99.4
0°-90°	1196.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1196.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	16294	16294	16294	16294	16294	
5°	10602	10493	10464	10537	10547	774
15°	921	938	939	922	910	316
25°	108	123	138	122	110	57
35°	21	23	24	23	21	15
45°	10	10	11	10	10	8
55°	7	7	7	7	7	6
65°	4	4	4	4	4	4
75°	2	2	2	2	3	2
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	16294.5	16294.5	16294.5	16294.5	16294.5
2.5°	14698.3	14710.8	14715.6	14730.1	14783.9
5°	10601.6	10492.6	10464.3	10536.8	10547.1
7.5°	6280.0	6302.0	6382.8	6400.7	6335.8
10°	3446.3	3474.5	3470.4	3495.2	3523.5
12.5°	1762.4	1740.4	1733.5	1761.8	1722.4
15°	920.9	938.1	938.8	922.3	909.9
17.5°	495.3	515.3	548.4	521.5	480.1
20°	292.5	310.4	338.7	316.6	298.7
22.5°	180.7	195.2	215.2	198.0	183.5
25°	108.3	122.8	138.0	122.1	109.7
27.5°	64.2	76.6	86.2	75.9	63.5
30°	41.4	48.3	54.5	47.6	42.1
32.5°	29.0	31.7	34.5	31.7	29.0
35°	21.4	22.8	24.1	22.8	20.7
37.5°	16.6	17.9	18.6	17.2	15.9
40°	13.8	14.5	15.2	14.5	13.8
42.5°	11.7	12.4	12.4	12.4	11.7
45°	10.3	10.3	11.0	10.3	10.3
47.5°	9.0	9.0	9.7	9.0	9.0
50°	8.3	8.3	8.3	8.3	8.3
52.5°	7.6	7.6	7.6	7.6	7.6
55°	6.9	6.9	6.9	6.9	6.9
57.5°	6.2	6.2	6.2	6.2	6.2
60°	5.5	5.5	5.5	5.5	5.5
62.5°	4.8	4.8	4.8	4.8	4.8
65°	4.1	4.1	4.1	4.1	4.1
67.5°	4.1	4.1	4.1	4.1	4.1
70°	3.4	3.4	3.4	3.4	3.4
72.5°	2.8	2.8	2.8	2.8	2.8
75°	2.1	2.1	2.1	2.1	2.8
77.5°	2.1	2.1	2.1	2.1	2.1
80°	1.4	1.4	1.4	1.4	1.4
82.5°	1.4	1.4	1.4	1.4	1.4
85°	0.7	0.7	0.7	0.7	0.7
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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