

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: P777918

Luminaire Tested: LERS4D10D010-EC4DR150210IC9024-4LBS1LI

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P777918
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-EC4DR150210IC9024-4LBS1LI
Description: 4 INCH ROUND SHALLOW 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: 973.2 lumens
Efficiency: N/A
Efficacy: 83.2 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



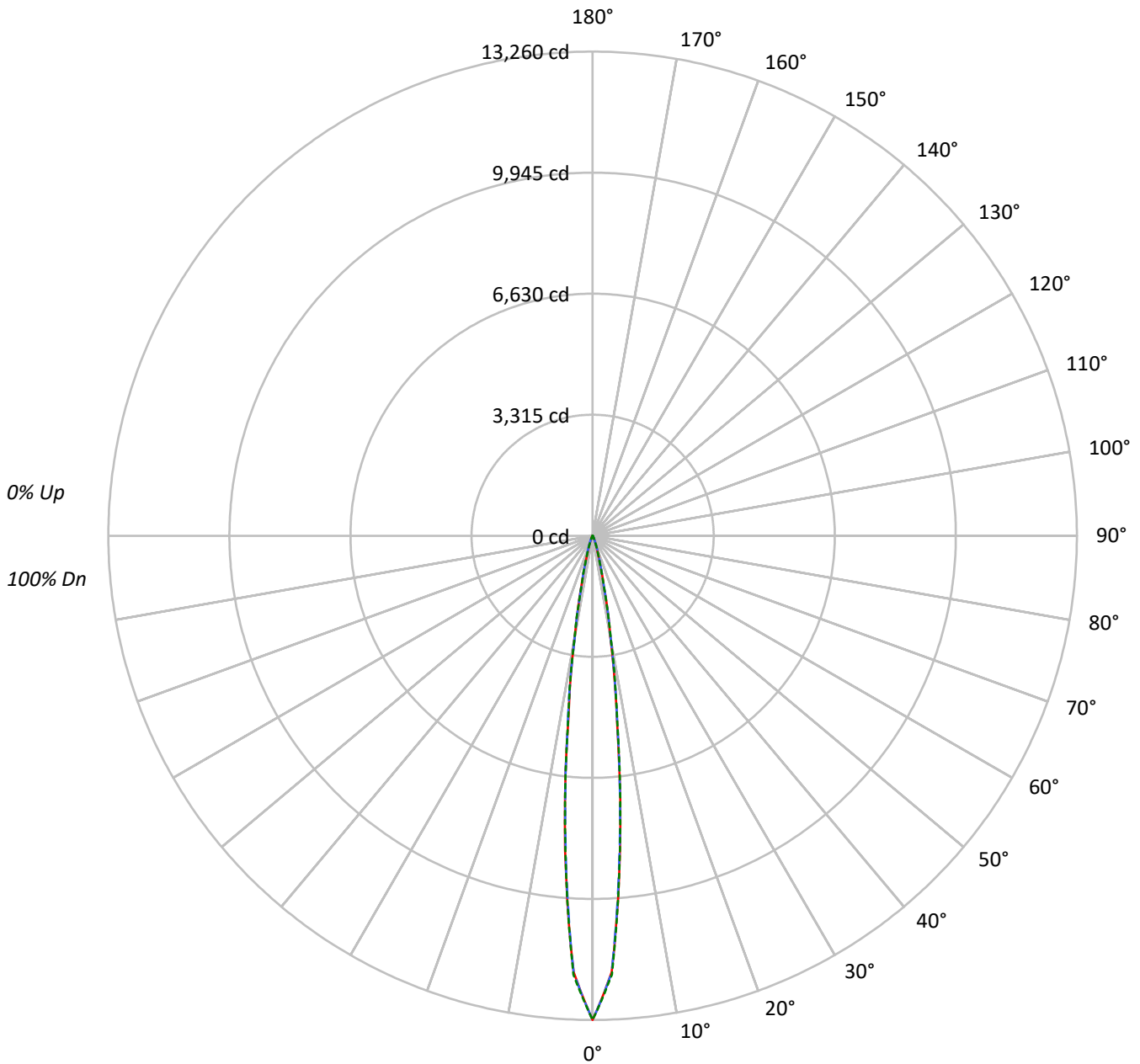
Downlight



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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°	1492037	1492037	1492037
5°	876793	865441	872281
10°	261681	263510	267550
15°	65091	66359	64309
20°	19474	22550	19891
25°	6863	8748	6957
30°	2523	3317	2561
35°	1264	1423	1220
40°	795	873	795
45°	588	630	588
50°	466	466	466
55°	390	390	390
60°	316	316	316
65°	243	243	243
70°	205	205	205
75°	128	128	166
80°	87	87	87
85°	50	50	50

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 630 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	631.2	64.9
10°-20°	259.6	26.7
20°-30°	51.6	5.3
30°-40°	12.9	1.3
40°-50°	6.8	0.7
50°-60°	5.0	0.5
60°-70°	3.6	0.4
70°-80°	2.0	0.2
80°-90°	0.6	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°	942.4	96.8
0°-40°	955.3	98.2
0°-60°	967.1	99.4
0°-90°	973.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	973.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13260	13260	13260	13260	13260	
5°	8627	8539	8516	8575	8583	630
15°	749	763	764	750	740	257
25°	88	100	112	99	89	46
35°	17	18	20	18	17	12
45°	8	8	9	8	8	7
55°	6	6	6	6	6	5
65°	3	3	3	3	3	4
75°	2	2	2	2	2	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°	13260.2	13260.2	13260.2	13260.2	13260.2
2.5°	11961.2	11971.3	11975.3	11987.1	12030.8
5°	8627.4	8538.7	8515.7	8574.6	8583.0
7.5°	5110.5	5128.5	5194.2	5208.8	5156.0
10°	2804.5	2827.5	2824.1	2844.4	2867.4
12.5°	1434.2	1416.3	1410.7	1433.7	1401.7
15°	749.4	763.4	764.0	750.5	740.4
17.5°	403.0	419.3	446.3	424.4	390.7
20°	238.0	252.6	275.6	257.7	243.1
22.5°	147.1	158.9	175.1	161.1	149.3
25°	88.1	99.9	112.3	99.4	89.3
27.5°	52.2	62.3	70.2	61.7	51.6
30°	33.7	39.3	44.3	38.7	34.2
32.5°	23.6	25.8	28.1	25.8	23.6
35°	17.4	18.5	19.6	18.5	16.8
37.5°	13.5	14.6	15.2	14.0	12.9
40°	11.2	11.8	12.3	11.8	11.2
42.5°	9.5	10.1	10.1	10.1	9.5
45°	8.4	8.4	9.0	8.4	8.4
47.5°	7.3	7.3	7.9	7.3	7.3
50°	6.7	6.7	6.7	6.7	6.7
52.5°	6.2	6.2	6.2	6.2	6.2
55°	5.6	5.6	5.6	5.6	5.6
57.5°	5.1	5.1	5.1	5.1	5.1
60°	4.5	4.5	4.5	4.5	4.5
62.5°	3.9	3.9	3.9	3.9	3.9
65°	3.4	3.4	3.4	3.4	3.4
67.5°	3.4	3.4	3.4	3.4	3.4
70°	2.8	2.8	2.8	2.8	2.8
72.5°	2.2	2.2	2.2	2.2	2.2
75°	1.7	1.7	1.7	1.7	2.2
77.5°	1.7	1.7	1.7	1.7	1.7
80°	1.1	1.1	1.1	1.1	1.1
82.5°	1.1	1.1	1.1	1.1	1.1
85°	0.6	0.6	0.6	0.6	0.6
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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