

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: P777610

Luminaire Tested: LERS4D08D010-EC4DR150210IC9027-4LBS1LI

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P777610
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: LERS4D08D010-EC4DR150210IC9027-4LBS1LI
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 808.1 lumens
Efficiency: N/A
Efficacy: 90.8 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): 8.9
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



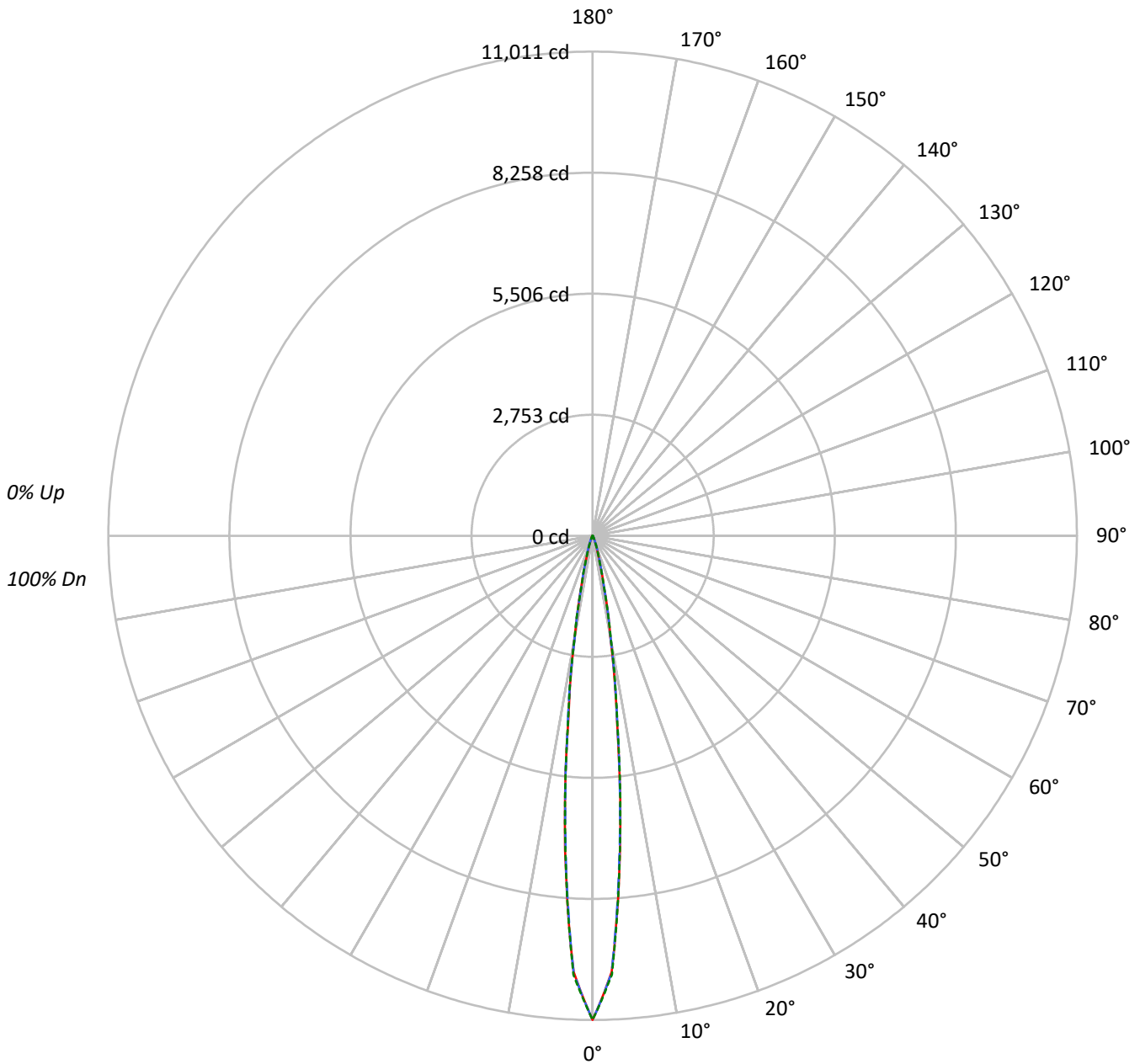
Downlight



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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	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°	1238912	1238912	1238912
5°	728039	718618	724299
10°	217285	218806	222156
15°	54051	55102	53400
20°	16168	18729	16512
25°	5702	7260	5772
30°	2097	2756	2127
35°	1046	1184	1017
40°	660	731	660
45°	490	525	490
50°	389	389	389
55°	327	327	327
60°	260	260	260
65°	200	200	200
70°	168	168	168
75°	106	106	144
80°	71	71	71
85°	42	42	42

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 525 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	524.1	64.9
10°-20°	215.6	26.7
20°-30°	42.8	5.3
30°-40°	10.7	1.3
40°-50°	5.6	0.7
50°-60°	4.2	0.5
60°-70°	2.9	0.4
70°-80°	1.7	0.2
80°-90°	0.5	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°	782.5	96.8
0°-40°	793.2	98.2
0°-60°	803.0	99.4
0°-90°	808.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	808.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11011	11011	11011	11011	11011	
5°	7164	7090	7071	7120	7127	523
15°	622	634	634	623	615	213
25°	73	83	93	82	74	38
35°	14	15	16	15	14	10
45°	7	7	8	7	7	5
55°	5	5	5	5	5	4
65°	3	3	3	3	3	3
75°	1	1	1	1	2	2
85°	0	0	0	0	0	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	11010.6	11010.6	11010.6	11010.6	11010.6
2.5°	9932.0	9940.4	9943.7	9953.5	9989.8
5°	7163.7	7090.1	7071.0	7119.9	7126.9
7.5°	4243.5	4258.4	4313.0	4325.1	4281.3
10°	2328.7	2347.8	2345.0	2361.8	2380.9
12.5°	1190.9	1176.0	1171.4	1190.5	1163.9
15°	622.3	633.9	634.4	623.2	614.8
17.5°	334.7	348.2	370.6	352.4	324.4
20°	197.6	209.8	228.9	213.9	201.8
22.5°	122.1	131.9	145.4	133.8	124.0
25°	73.2	83.0	93.2	82.5	74.1
27.5°	43.3	51.7	58.3	51.3	42.9
30°	28.0	32.6	36.8	32.2	28.4
32.5°	19.6	21.4	23.3	21.4	19.6
35°	14.4	15.4	16.3	15.4	14.0
37.5°	11.2	12.1	12.6	11.7	10.7
40°	9.3	9.8	10.3	9.8	9.3
42.5°	7.9	8.4	8.4	8.4	7.9
45°	7.0	7.0	7.5	7.0	7.0
47.5°	6.1	6.1	6.5	6.1	6.1
50°	5.6	5.6	5.6	5.6	5.6
52.5°	5.1	5.1	5.1	5.1	5.1
55°	4.7	4.7	4.7	4.7	4.7
57.5°	4.2	4.2	4.2	4.2	4.2
60°	3.7	3.7	3.7	3.7	3.7
62.5°	3.3	3.3	3.3	3.3	3.3
65°	2.8	2.8	2.8	2.8	2.8
67.5°	2.8	2.8	2.8	2.8	2.8
70°	2.3	2.3	2.3	2.3	2.3
72.5°	1.9	1.9	1.9	1.9	1.9
75°	1.4	1.4	1.4	1.4	1.9
77.5°	1.4	1.4	1.4	1.4	1.4
80°	0.9	0.9	0.9	0.9	0.9
82.5°	0.9	0.9	0.9	0.9	0.9
85°	0.5	0.5	0.5	0.5	0.5
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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