

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



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: P778239

Luminaire Tested: LERS4D15D010-EC4DR1515309030-4LBS1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P778239
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: LERS4D15D010-EC4DR1515309030-4LBS1MW
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1356.2 lumens
Efficiency: N/A
Efficacy: 85.8 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): 15.8
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

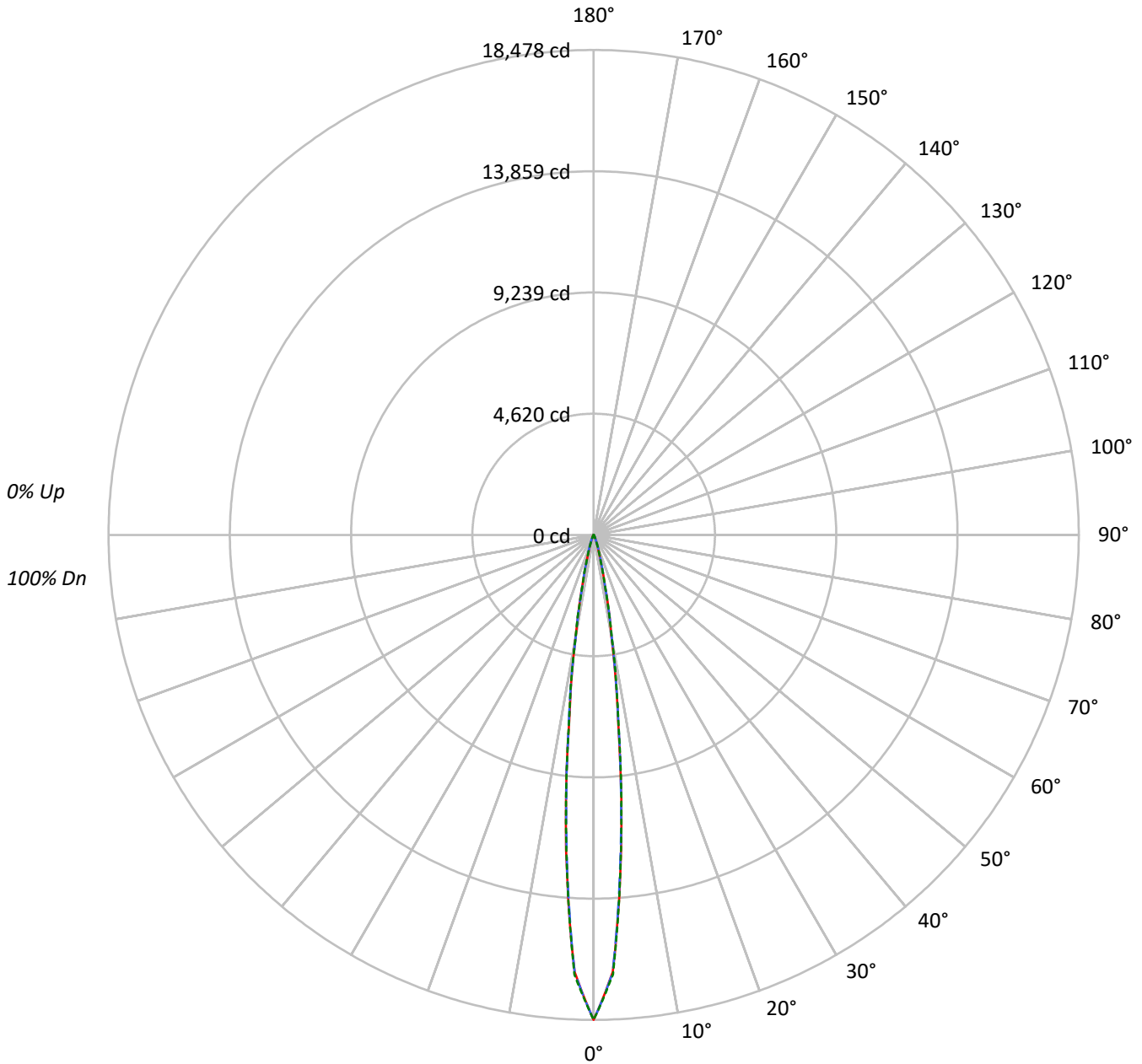


Downlight



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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	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°	2079166	2079166	2079166
5°	1221813	1206000	1215533
10°	364655	367212	372829
15°	90705	92468	89619
20°	27141	31428	27713
25°	9566	12184	9691
30°	3512	4628	3572
35°	1757	1990	1707
40°	1108	1221	1108
45°	819	875	819
50°	654	654	654
55°	543	543	543
60°	442	442	442
65°	335	335	335
70°	285	285	285
75°	174	174	234
80°	126	126	126
85°	66	66	66

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 875 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	879.6	64.9
10°-20°	361.8	26.7
20°-30°	71.9	5.3
30°-40°	17.9	1.3
40°-50°	9.4	0.7
50°-60°	7.0	0.5
60°-70°	4.9	0.4
70°-80°	2.8	0.2
80°-90°	0.9	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°	1313.3	96.8
0°-40°	1331.2	98.2
0°-60°	1347.6	99.4
0°-90°	1356.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1356.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	18478	18478	18478	18478	18478	
5°	12022	11899	11867	11949	11960	878
15°	1044	1064	1065	1046	1032	358
25°	123	139	156	138	124	64
35°	24	26	27	26	24	16
45°	12	12	12	12	12	9
55°	8	8	8	8	8	7
65°	5	5	5	5	5	5
75°	2	2	2	2	3	3
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°	18478.2	18478.2	18478.2	18478.2	18478.2
2.5°	16668.1	16682.2	16687.6	16704.1	16765.1
5°	12022.3	11898.7	11866.7	11948.8	11960.5
7.5°	7121.6	7146.6	7238.1	7258.5	7184.9
10°	3908.1	3940.2	3935.5	3963.6	3995.7
12.5°	1998.6	1973.6	1965.8	1997.9	1953.3
15°	1044.3	1063.9	1064.6	1045.9	1031.8
17.5°	561.7	584.3	621.9	591.4	544.4
20°	331.7	352.0	384.1	359.1	338.7
22.5°	204.9	221.4	244.1	224.5	208.1
25°	122.8	139.2	156.4	138.5	124.4
27.5°	72.7	86.8	97.8	86.0	72.0
30°	46.9	54.8	61.8	54.0	47.7
32.5°	32.9	36.0	39.1	36.0	32.9
35°	24.2	25.8	27.4	25.8	23.5
37.5°	18.8	20.3	21.1	19.6	18.0
40°	15.6	16.4	17.2	16.4	15.6
42.5°	13.3	14.1	14.1	14.1	13.3
45°	11.7	11.7	12.5	11.7	11.7
47.5°	10.2	10.2	11.0	10.2	10.2
50°	9.4	9.4	9.4	9.4	9.4
52.5°	8.6	8.6	8.6	8.6	8.6
55°	7.8	7.8	7.8	7.8	7.8
57.5°	7.0	7.0	7.0	7.0	7.0
60°	6.3	6.3	6.3	6.3	6.3
62.5°	5.5	5.5	5.5	5.5	5.5
65°	4.7	4.7	4.7	4.7	4.7
67.5°	4.7	4.7	4.7	4.7	4.7
70°	3.9	3.9	3.9	3.9	3.9
72.5°	3.1	3.1	3.1	3.1	3.1
75°	2.3	2.3	2.3	2.3	3.1
77.5°	2.3	2.3	2.3	2.3	2.3
80°	1.6	1.6	1.6	1.6	1.6
82.5°	1.6	1.6	1.6	1.6	1.6
85°	0.8	0.8	0.8	0.8	0.8
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

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Scaled Data Report





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

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