

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: P778235

Luminaire Tested: LERS4D15D010-EC4DR1515309027-4LBS1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P778235
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-EC4DR1515309027-4LBS1MW
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1313.4 lumens
Efficiency: N/A
Efficacy: 83.1 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 (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

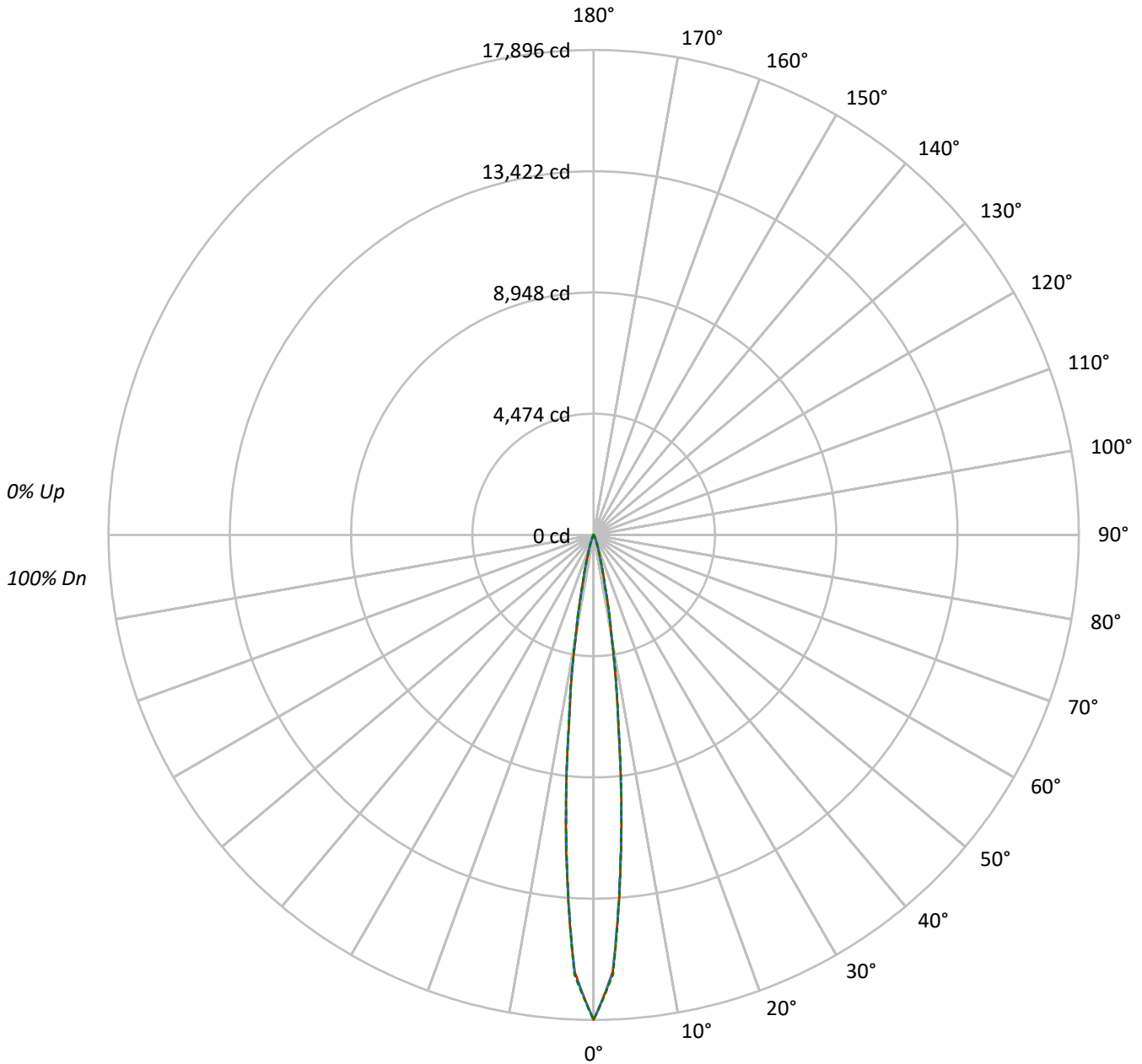


Downlight



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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°	2013601	2013601	2013601
5°	1183286	1167970	1177208
10°	353160	355633	361072
15°	87847	89558	86787
20°	26281	30438	26838
25°	9262	11802	9387
30°	3407	4478	3460
35°	1707	1924	1648
40°	1079	1186	1079
45°	798	847	798
50°	633	633	633
55°	529	529	529
60°	428	428	428
65°	321	321	321
70°	278	278	278
75°	174	174	227
80°	118	118	118
85°	66	66	66

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 847 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	851.9	64.9
10°-20°	350.4	26.7
20°-30°	69.6	5.3
30°-40°	17.4	1.3
40°-50°	9.1	0.7
50°-60°	6.8	0.5
60°-70°	4.8	0.4
70°-80°	2.7	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°	1271.9	96.8
0°-40°	1289.2	98.2
0°-60°	1305.1	99.4
0°-90°	1313.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1313.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	17896	17896	17896	17896	17896	
5°	11643	11524	11492	11572	11583	850
15°	1011	1030	1031	1013	999	347
25°	119	135	152	134	120	62
35°	24	25	26	25	23	16
45°	11	11	12	11	11	9
55°	8	8	8	8	8	7
65°	4	4	4	4	4	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°	17895.5	17895.5	17895.5	17895.5	17895.5
2.5°	16142.5	16156.1	16161.4	16177.4	16236.4
5°	11643.2	11523.5	11492.5	11572.0	11583.4
7.5°	6897.0	6921.2	7009.9	7029.6	6958.4
10°	3784.9	3815.9	3811.4	3838.7	3869.7
12.5°	1935.6	1911.4	1903.8	1934.9	1891.7
15°	1011.4	1030.3	1031.1	1012.9	999.2
17.5°	543.9	565.9	602.3	572.7	527.3
20°	321.2	340.9	372.0	347.7	328.0
22.5°	198.5	214.4	236.4	217.4	201.5
25°	118.9	134.8	151.5	134.1	120.5
27.5°	70.5	84.1	94.7	83.3	69.7
30°	45.5	53.0	59.8	52.3	46.2
32.5°	31.8	34.8	37.9	34.8	31.8
35°	23.5	25.0	26.5	25.0	22.7
37.5°	18.2	19.7	20.5	18.9	17.4
40°	15.2	15.9	16.7	15.9	15.2
42.5°	12.9	13.6	13.6	13.6	12.9
45°	11.4	11.4	12.1	11.4	11.4
47.5°	9.8	9.8	10.6	9.8	9.8
50°	9.1	9.1	9.1	9.1	9.1
52.5°	8.3	8.3	8.3	8.3	8.3
55°	7.6	7.6	7.6	7.6	7.6
57.5°	6.8	6.8	6.8	6.8	6.8
60°	6.1	6.1	6.1	6.1	6.1
62.5°	5.3	5.3	5.3	5.3	5.3
65°	4.5	4.5	4.5	4.5	4.5
67.5°	4.5	4.5	4.5	4.5	4.5
70°	3.8	3.8	3.8	3.8	3.8
72.5°	3.0	3.0	3.0	3.0	3.0
75°	2.3	2.3	2.3	2.3	3.0
77.5°	2.3	2.3	2.3	2.3	2.3
80°	1.5	1.5	1.5	1.5	1.5
82.5°	1.5	1.5	1.5	1.5	1.5
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

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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