

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: P742896

Luminaire Tested: LD4D15D010-EU4DR1515309027-4LBS1H

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P742896
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: LD4D15D010-EU4DR1515309027-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-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: 1382.6 lumens
Efficiency: N/A
Efficacy: 87.5 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

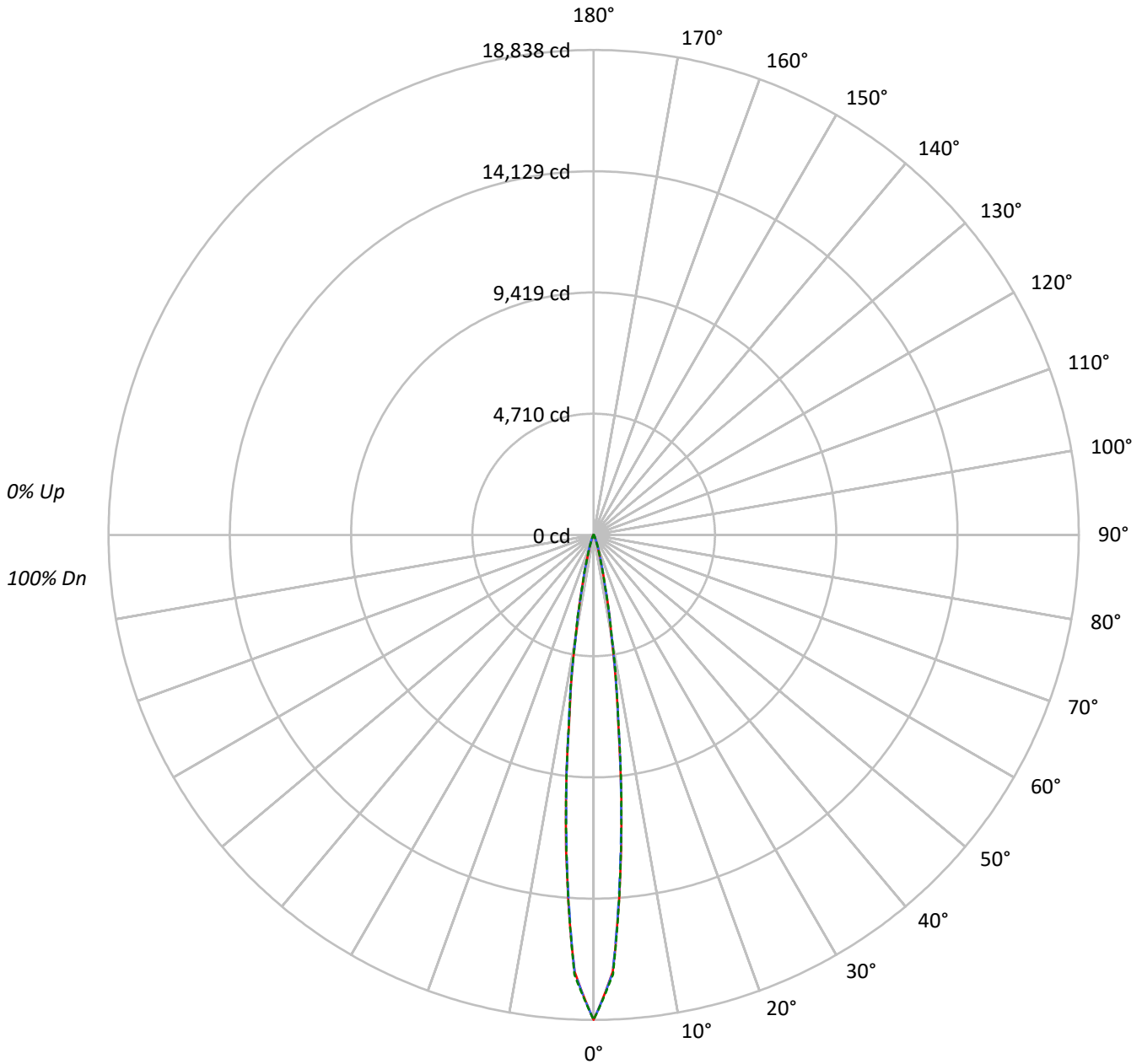


Downlight



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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	87	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°	2119595	2119595	2119595
5°	1245574	1229446	1239171
10°	371747	374350	380079
15°	92468	94266	91356
20°	27664	32042	28253
25°	9753	12425	9878
30°	3579	4718	3639
35°	1794	2026	1736
40°	1129	1243	1129
45°	840	896	840
50°	668	668	668
55°	557	557	557
60°	449	449	449
65°	343	343	343
70°	293	293	293
75°	181	181	242
80°	126	126	126
85°	66	66	66

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 896 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	896.7	64.9
10°-20°	368.8	26.7
20°-30°	73.3	5.3
30°-40°	18.3	1.3
40°-50°	9.6	0.7
50°-60°	7.1	0.5
60°-70°	5.0	0.4
70°-80°	2.9	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°	1338.8	96.8
0°-40°	1357.1	98.2
0°-60°	1373.9	99.4
0°-90°	1382.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1382.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	18838	18838	18838	18838	18838	
5°	12256	12130	12097	12181	12193	895
15°	1065	1084	1085	1066	1052	365
25°	125	142	160	141	127	66
35°	25	26	28	26	24	17
45°	12	12	13	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°	18837.5	18837.5	18837.5	18837.5	18837.5
2.5°	16992.2	17006.5	17012.1	17028.9	17091.1
5°	12256.1	12130.1	12097.4	12181.1	12193.1
7.5°	7260.0	7285.6	7378.9	7399.6	7324.6
10°	3984.1	4016.8	4012.0	4040.7	4073.4
12.5°	2037.5	2012.0	2004.0	2036.7	1991.2
15°	1064.6	1084.5	1085.3	1066.2	1051.8
17.5°	572.6	595.7	634.0	602.9	555.0
20°	338.1	358.9	391.6	366.0	345.3
22.5°	208.9	225.7	248.8	228.9	212.1
25°	125.2	141.9	159.5	141.1	126.8
27.5°	74.2	88.5	99.7	87.7	73.4
30°	47.8	55.8	63.0	55.0	48.6
32.5°	33.5	36.7	39.9	36.7	33.5
35°	24.7	26.3	27.9	26.3	23.9
37.5°	19.1	20.7	21.5	19.9	18.3
40°	15.9	16.7	17.5	16.7	15.9
42.5°	13.6	14.4	14.4	14.4	13.6
45°	12.0	12.0	12.8	12.0	12.0
47.5°	10.4	10.4	11.2	10.4	10.4
50°	9.6	9.6	9.6	9.6	9.6
52.5°	8.8	8.8	8.8	8.8	8.8
55°	8.0	8.0	8.0	8.0	8.0
57.5°	7.2	7.2	7.2	7.2	7.2
60°	6.4	6.4	6.4	6.4	6.4
62.5°	5.6	5.6	5.6	5.6	5.6
65°	4.8	4.8	4.8	4.8	4.8
67.5°	4.8	4.8	4.8	4.8	4.8
70°	4.0	4.0	4.0	4.0	4.0
72.5°	3.2	3.2	3.2	3.2	3.2
75°	2.4	2.4	2.4	2.4	3.2
77.5°	2.4	2.4	2.4	2.4	2.4
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

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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