

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: P742893

Luminaire Tested: LD4D15D010-EU4DR1515309027-4LBDP1LI

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P742893
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-EU4DR1515309027-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF 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: 1379.2 lumens
Efficiency: N/A
Efficacy: 87.3 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

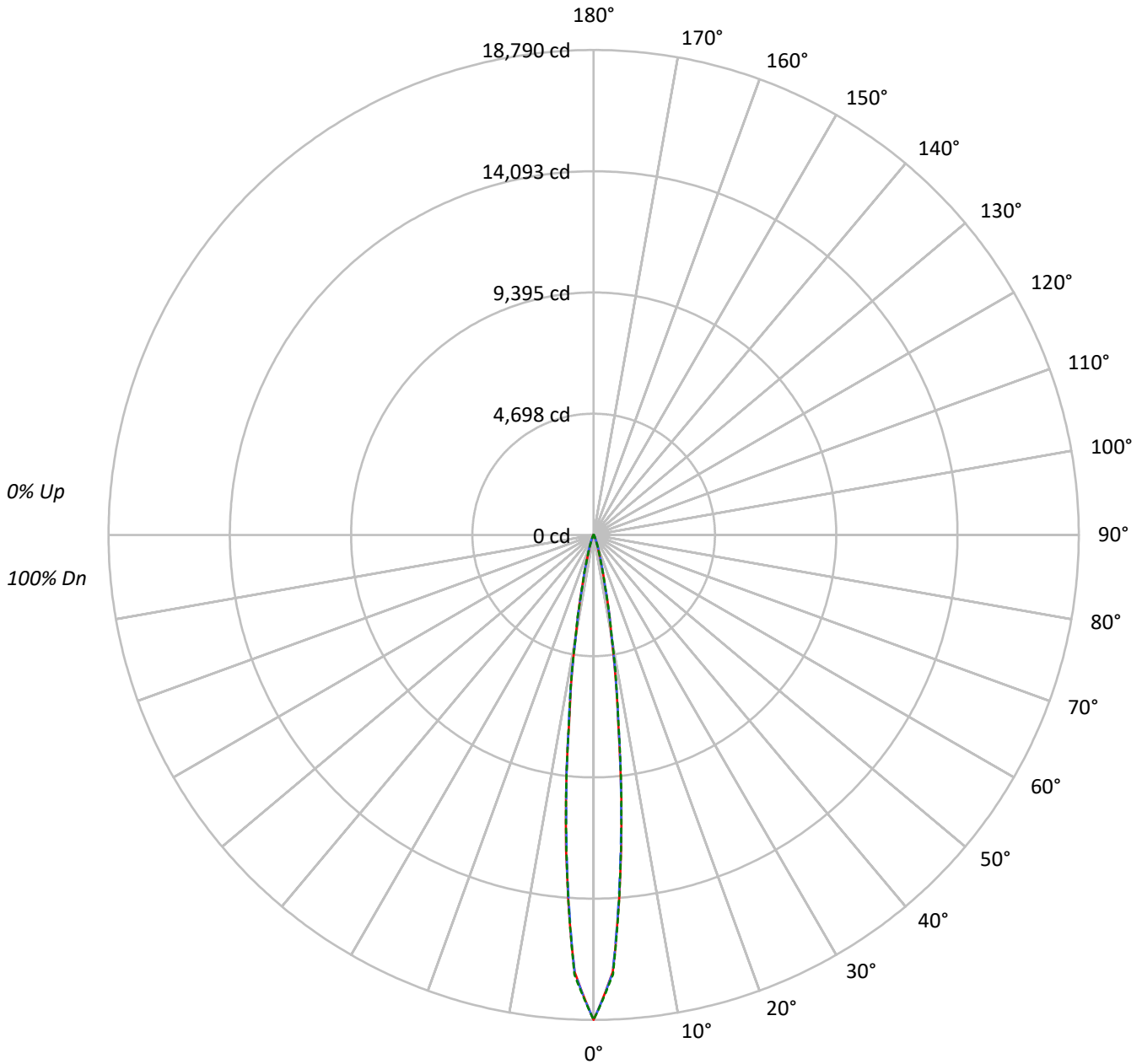


Downlight



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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					70					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°	2114295	2114295	2114295
5°	1242464	1226376	1236072
10°	370814	373417	379127
15°	92233	94031	91130
20°	27599	31960	28180
25°	9730	12394	9854
30°	3572	4703	3632
35°	1794	2019	1736
40°	1129	1243	1129
45°	833	889	833
50°	661	661	661
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: 889 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	894.5	64.9
10°-20°	367.9	26.7
20°-30°	73.1	5.3
30°-40°	18.2	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°	1335.5	96.8
0°-40°	1353.7	98.2
0°-60°	1370.4	99.4
0°-90°	1379.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1379.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	18790	18790	18790	18790	18790	
5°	12226	12100	12067	12151	12163	893
15°	1062	1082	1083	1064	1049	364
25°	125	142	159	141	126	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°	18790.4	18790.4	18790.4	18790.4	18790.4
2.5°	16949.7	16964.0	16969.6	16986.3	17048.3
5°	12225.5	12099.8	12067.2	12150.7	12162.6
7.5°	7241.9	7267.3	7360.4	7381.1	7306.3
10°	3974.1	4006.7	4002.0	4030.6	4063.2
12.5°	2032.4	2007.0	1999.0	2031.6	1986.3
15°	1061.9	1081.8	1082.6	1063.5	1049.2
17.5°	571.1	594.2	632.4	601.4	553.6
20°	337.3	358.0	390.6	365.1	344.4
22.5°	208.4	225.1	248.2	228.3	211.6
25°	124.9	141.6	159.1	140.8	126.5
27.5°	74.0	88.3	99.4	87.5	73.2
30°	47.7	55.7	62.8	54.9	48.5
32.5°	33.4	36.6	39.8	36.6	33.4
35°	24.7	26.3	27.8	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°	13.5	14.3	14.3	14.3	13.5
45°	11.9	11.9	12.7	11.9	11.9
47.5°	10.3	10.3	11.1	10.3	10.3
50°	9.5	9.5	9.5	9.5	9.5
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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