

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: P743925

Luminaire Tested: LD4D20D010-EU4DR1515309050-4LBCSSQMMS

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P743925
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: LD4D20D010-EU4DR1515309050-4LBCSSQMMS
Description: 4 INCH SQAURE SHALLOW CAST MATTE METALLIC SILVER TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1828.2 lumens
Efficiency: N/A
Efficacy: 79.1 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): 23.1
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



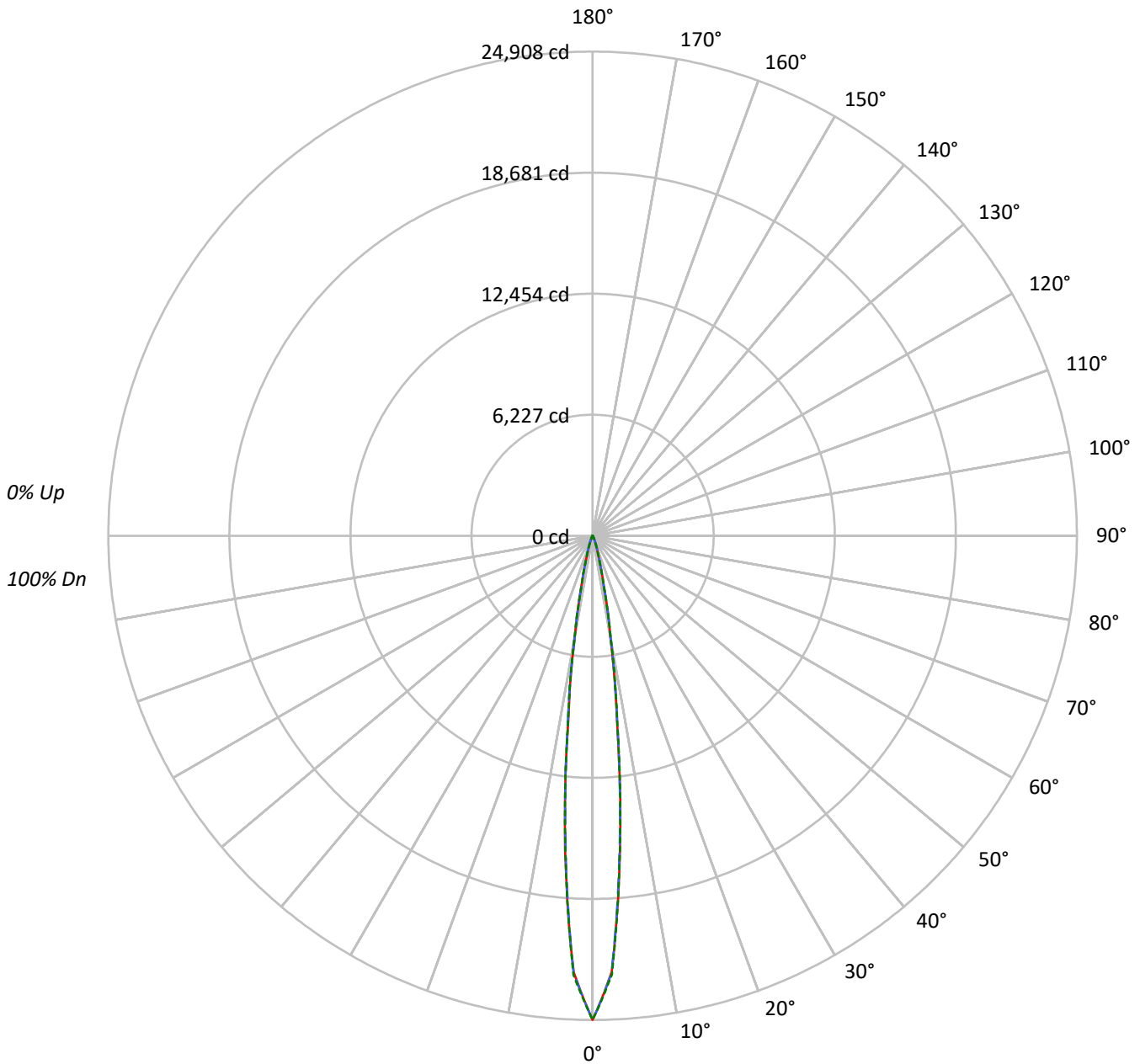
Downlight



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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	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°	2802647	2802647	2802647
5°	1646968	1625646	1638502
10°	491544	494987	502564
15°	122268	124648	120800
20°	36583	42360	37360
25°	12893	16429	13064
30°	4740	6238	4815
35°	2375	2680	2295
40°	1498	1648	1498
45°	1106	1183	1106
50°	883	883	883
55°	731	731	731
60°	590	590	590
65°	450	450	450
70°	388	388	388
75°	242	242	317
80°	166	166	166
85°	91	91	91

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 1183 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1185.7	64.9
10°-20°	487.7	26.7
20°-30°	96.9	5.3
30°-40°	24.2	1.3
40°-50°	12.7	0.7
50°-60°	9.4	0.5
60°-70°	6.6	0.4
70°-80°	3.8	0.2
80°-90°	1.2	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°	1770.2	96.8
0°-40°	1794.4	98.2
0°-60°	1816.5	99.4
0°-90°	1828.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1828.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	24908	24908	24908	24908	24908	
5°	16206	16039	15996	16107	16122	1183
15°	1408	1434	1435	1410	1391	483
25°	166	188	211	187	168	87
35°	33	35	37	35	32	22
45°	16	16	17	16	16	12
55°	10	10	10	10	10	9
65°	6	6	6	6	6	7
75°	3	3	3	3	4	4
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°	24908.0	24908.0	24908.0	24908.0	24908.0
2.5°	22468.0	22487.0	22494.4	22516.5	22598.8
5°	16205.7	16039.1	15995.9	16106.6	16122.4
7.5°	9599.6	9633.4	9756.7	9784.1	9685.0
10°	5268.0	5311.2	5304.9	5342.8	5386.1
12.5°	2694.1	2660.4	2649.8	2693.0	2632.9
15°	1407.7	1434.0	1435.1	1409.8	1390.8
17.5°	757.1	787.7	838.3	797.2	733.9
20°	447.1	474.5	517.7	484.0	456.6
22.5°	276.3	298.4	329.0	302.6	280.5
25°	165.5	187.7	210.9	186.6	167.7
27.5°	98.1	117.0	131.8	116.0	97.0
30°	63.3	73.8	83.3	72.8	64.3
32.5°	44.3	48.5	52.7	48.5	44.3
35°	32.7	34.8	36.9	34.8	31.6
37.5°	25.3	27.4	28.5	26.4	24.3
40°	21.1	22.1	23.2	22.1	21.1
42.5°	17.9	19.0	19.0	19.0	17.9
45°	15.8	15.8	16.9	15.8	15.8
47.5°	13.7	13.7	14.8	13.7	13.7
50°	12.7	12.7	12.7	12.7	12.7
52.5°	11.6	11.6	11.6	11.6	11.6
55°	10.5	10.5	10.5	10.5	10.5
57.5°	9.5	9.5	9.5	9.5	9.5
60°	8.4	8.4	8.4	8.4	8.4
62.5°	7.4	7.4	7.4	7.4	7.4
65°	6.3	6.3	6.3	6.3	6.3
67.5°	6.3	6.3	6.3	6.3	6.3
70°	5.3	5.3	5.3	5.3	5.3
72.5°	4.2	4.2	4.2	4.2	4.2
75°	3.2	3.2	3.2	3.2	4.2
77.5°	3.2	3.2	3.2	3.2	3.2
80°	2.1	2.1	2.1	2.1	2.1
82.5°	2.1	2.1	2.1	2.1	2.1
85°	1.1	1.1	1.1	1.1	1.1
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



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Scaled Data Report





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

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