

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: P742098

Luminaire Tested: LD4D10D010-EU4DR300210IC9024-4LBCSSQMMS

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P742098
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D10D010-EU4DR300210IC9024-4LBCSSQMMS
Description: 4 INCH SQAURE SHALLOW CAST MATTE METALLIC SILVER TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 777.5 lumens
Efficiency: N/A
Efficacy: 66.5 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

Input Watts (W): 11.7
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



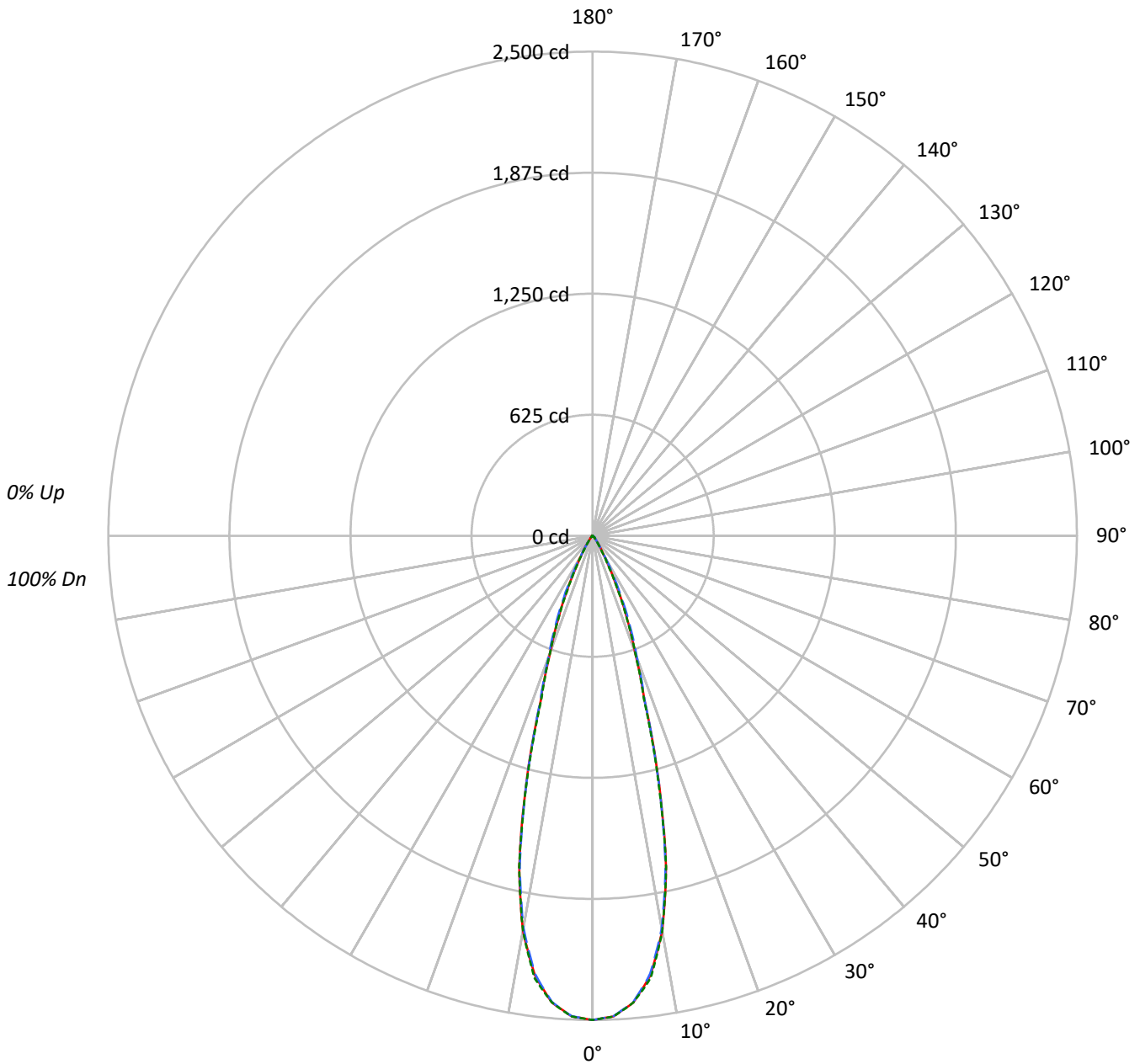
Downlight



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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	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96																			
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92																			
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89																			
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85																			
5	100	94	89	86	98	93	89	86	91	88	85	90	87	84	88	86	83	82																			
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79																			
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77																			
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74																			
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72																			
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	191358	191358	191358
5°	185866	185651	185881
10°	160990	159855	160951
15°	105037	104475	103952
20°	52229	54193	52156
25°	26308	29669	25776
30°	10535	11481	9174
35°	4887	4681	3925
40°	2108	2338	1988
45°	1494	1851	1505
50°	512	1346	536
55°	294	560	307
60°	214	245	214
65°	127	127	127
70°	67	45	67
75°	0	30	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 1851 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.8	28.3
10°-20°	354.1	45.5
20°-30°	153.0	19.7
30°-40°	34.9	4.5
40°-50°	12.0	1.5
50°-60°	2.9	0.4
60°-70°	0.7	0.1
70°-80°	0.1	0.0
80°-90°	0.0	0.0
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°	726.9	93.5
0°-40°	761.8	98.0
0°-60°	776.7	99.9
0°-90°	777.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	777.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2500	2500	2500	2500	2500	
5°	2419	2417	2416	2421	2419	220
15°	1326	1310	1318	1314	1312	355
25°	312	323	351	315	305	149
35°	52	53	50	50	42	35
45°	14	17	17	17	14	10
55°	2	2	4	2	2	2
65°	1	1	1	1	1	1
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2500.0	2500.0	2500.0	2500.0	2500.0
2.5°	2483.5	2481.7	2482.7	2484.0	2484.4
5°	2419.0	2416.7	2416.2	2421.2	2419.2
7.5°	2289.1	2285.7	2280.7	2292.1	2302.8
10°	2071.3	2067.6	2056.7	2062.1	2070.8
12.5°	1749.8	1737.9	1737.7	1754.8	1752.5
15°	1325.5	1309.5	1318.4	1314.1	1311.8
17.5°	891.3	885.2	897.0	893.5	878.1
20°	641.2	642.8	665.3	654.0	640.3
22.5°	467.9	473.7	500.3	471.2	460.5
25°	311.5	323.3	351.3	315.1	305.2
27.5°	191.6	197.0	225.3	189.1	183.7
30°	119.2	116.5	129.9	111.4	103.8
32.5°	78.2	74.8	79.1	70.9	64.8
35°	52.3	53.4	50.1	49.7	42.0
37.5°	32.7	37.6	33.1	35.4	27.0
40°	21.1	27.3	23.4	25.9	19.9
42.5°	17.3	21.0	19.3	20.5	17.6
45°	13.8	17.1	17.1	17.1	13.9
47.5°	7.6	11.4	14.6	11.7	8.1
50°	4.3	5.8	11.3	6.0	4.5
52.5°	2.9	3.3	7.7	3.4	3.1
55°	2.2	2.3	4.2	2.5	2.3
57.5°	1.7	1.8	2.2	1.8	1.7
60°	1.4	1.4	1.6	1.5	1.4
62.5°	1.0	1.0	1.1	1.0	1.0
65°	0.7	0.7	0.7	0.7	0.7
67.5°	0.3	0.5	0.5	0.5	0.5
70°	0.3	0.2	0.2	0.2	0.3
72.5°	0.2	0.1	0.1	0.1	0.1
75°	0.0	0.0	0.1	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
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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