

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: P739082

Luminaire Tested: LD4D02D010-EU4DR300210IC9030-4LBCSSQMMS

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P739082
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: LD4D02D010-EU4DR300210IC9030-4LBCSSQMMS
Description: 4 INCH SQAURE SHALLOW CAST MATTE METALLIC SILVER TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 310.8 lumens
Efficiency: N/A
Efficacy: 60.9 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): 5.1
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

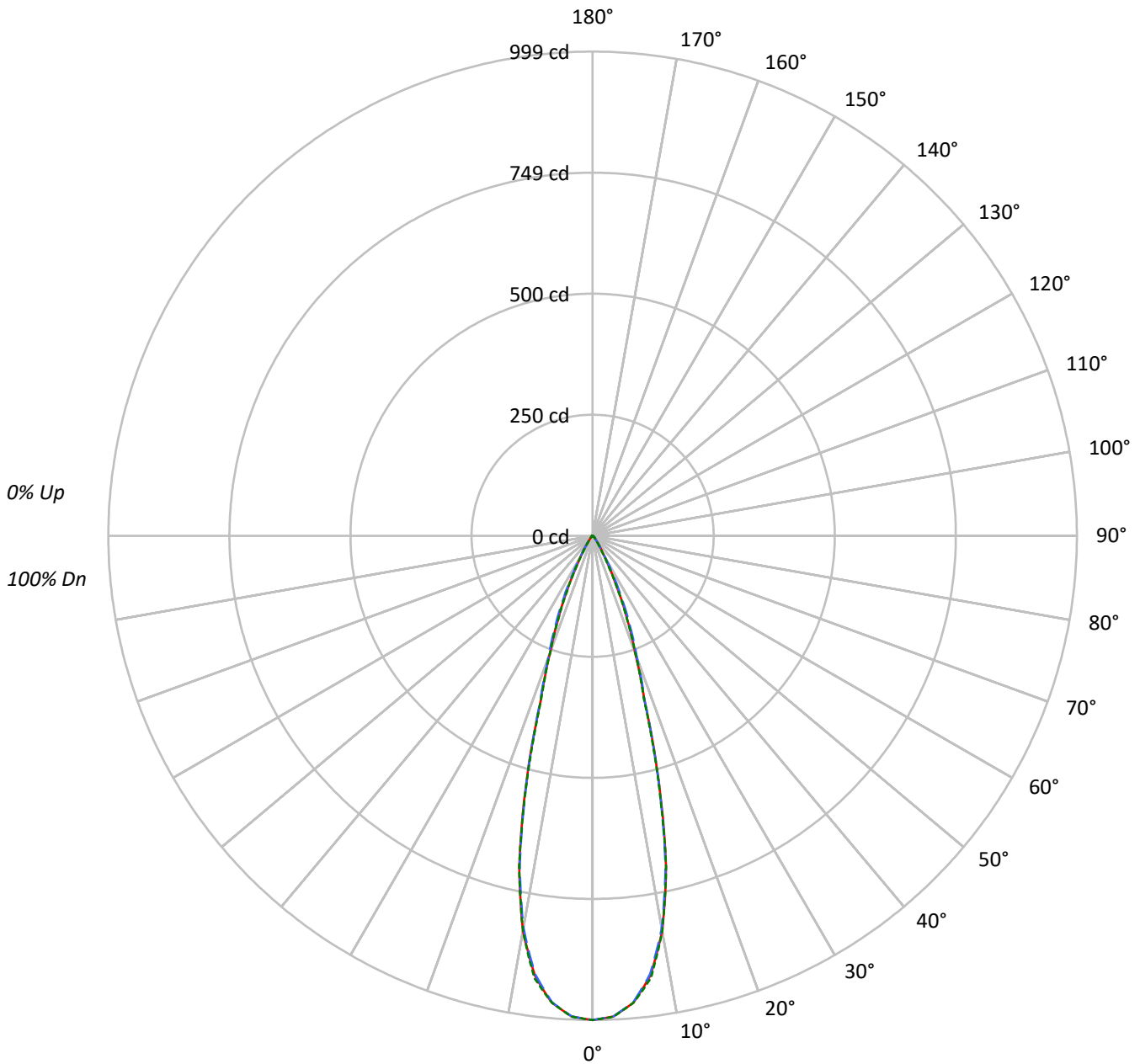


Downlight



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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	86	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°	76490	76490	76490
5°	74300	74208	74300
10°	64356	63897	64332
15°	41991	41761	41555
20°	20877	21659	20853
25°	10515	11858	10304
30°	4216	4587	3668
35°	1953	1869	1570
40°	839	939	799
45°	595	736	606
50°	202	536	214
55°	120	227	120
60°	77	92	77
65°	54	54	54
70°	45	22	45
75°	0	30	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 736 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.9	28.3
10°-20°	141.5	45.5
20°-30°	61.2	19.7
30°-40°	13.9	4.5
40°-50°	4.8	1.5
50°-60°	1.2	0.4
60°-70°	0.3	0.1
70°-80°	0.0	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°	290.6	93.5
0°-40°	304.5	98.0
0°-60°	310.5	99.9
0°-90°	310.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	310.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	999	999	999	999	999	
5°	967	966	966	968	967	88
15°	530	523	527	525	524	142
25°	124	129	140	126	122	60
35°	21	21	20	20	17	14
45°	6	7	7	7	6	4
55°	1	1	2	1	1	1
65°	0	0	0	0	0	0
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°	999.3	999.3	999.3	999.3	999.3
2.5°	992.7	992.0	992.4	992.9	993.1
5°	967.0	966.0	965.8	967.8	967.0
7.5°	915.0	913.7	911.7	916.2	920.5
10°	828.0	826.5	822.1	824.2	827.7
12.5°	699.5	694.7	694.6	701.5	700.5
15°	529.9	523.4	527.0	525.3	524.4
17.5°	356.3	353.9	358.6	357.1	351.0
20°	256.3	257.0	265.9	261.4	256.0
22.5°	187.0	189.4	200.0	188.3	184.1
25°	124.5	129.3	140.4	125.9	122.0
27.5°	76.6	78.7	90.1	75.6	73.5
30°	47.7	46.6	51.9	44.6	41.5
32.5°	31.2	29.9	31.6	28.4	25.9
35°	20.9	21.4	20.0	19.9	16.8
37.5°	13.1	15.0	13.2	14.2	10.8
40°	8.4	10.9	9.4	10.4	8.0
42.5°	6.9	8.4	7.7	8.2	7.0
45°	5.5	6.8	6.8	6.8	5.6
47.5°	3.0	4.6	5.8	4.6	3.3
50°	1.7	2.3	4.5	2.4	1.8
52.5°	1.2	1.3	3.1	1.4	1.2
55°	0.9	0.9	1.7	1.0	0.9
57.5°	0.7	0.7	0.9	0.7	0.7
60°	0.5	0.5	0.6	0.6	0.5
62.5°	0.4	0.4	0.5	0.4	0.4
65°	0.3	0.3	0.3	0.3	0.3
67.5°	0.2	0.2	0.2	0.2	0.2
70°	0.2	0.1	0.1	0.1	0.2
72.5°	0.1	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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(END OF REPORT)