

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: P745979

Luminaire Tested: LD4D30D010-EU4DR3020359027-4LBCSSQMMS

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P745979
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: LD4D30D010-EU4DR3020359027-4LBCSSQMMS
Description: 4 INCH SQAURE SHALLOW CAST MATTE METALLIC SILVER TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2312.9 lumens
Efficiency: N/A
Efficacy: 79.8 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): 29
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



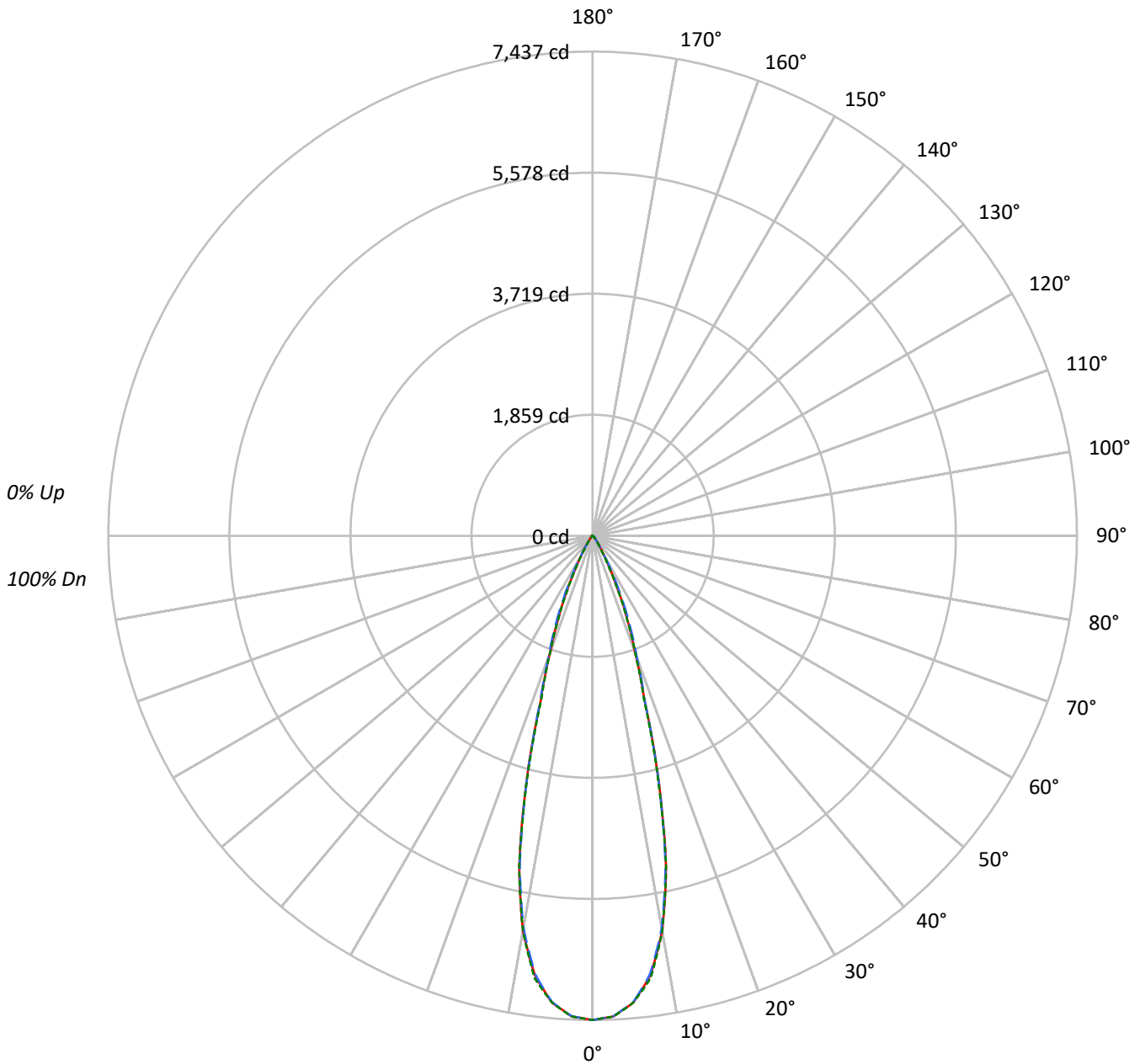
Downlight



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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	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°	569276	569276	569276
5°	552933	552288	552964
10°	478929	475548	478812
15°	312473	310793	309232
20°	155377	161209	155165
25°	78266	88265	76669
30°	31332	34143	27302
35°	14540	13923	11671
40°	6275	6964	5905
45°	4427	5499	4471
50°	1524	4001	1608
55°	881	1655	921
60°	612	735	612
65°	398	398	398
70°	246	157	246
75°	0	89	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 5499 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	654.0	28.3
10°-20°	1053.3	45.5
20°-30°	455.1	19.7
30°-40°	103.7	4.5
40°-50°	35.6	1.5
50°-60°	8.7	0.4
60°-70°	2.2	0.1
70°-80°	0.2	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°	2162.4	93.5
0°-40°	2266.2	98.0
0°-60°	2310.5	99.9
0°-90°	2312.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2312.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7437	7437	7437	7437	7437	
5°	7196	7189	7188	7203	7197	655
15°	3943	3896	3922	3909	3902	1056
25°	927	962	1045	937	908	444
35°	156	159	149	148	125	106
45°	41	51	51	51	41	29
55°	7	7	12	7	7	6
65°	2	2	2	2	2	2
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7437.3	7437.3	7437.3	7437.3	7437.3
2.5°	7388.0	7382.9	7385.9	7389.5	7391.0
5°	7196.3	7189.4	7187.9	7202.9	7196.7
7.5°	6809.6	6799.8	6784.8	6818.7	6850.5
10°	6161.9	6150.9	6118.4	6134.5	6160.4
12.5°	5205.5	5170.1	5169.4	5220.5	5213.6
15°	3943.2	3895.8	3922.0	3909.2	3902.3
17.5°	2651.7	2633.5	2668.5	2657.9	2612.3
20°	1907.5	1912.3	1979.1	1945.5	1904.9
22.5°	1391.9	1409.1	1488.4	1401.8	1370.0
25°	926.7	961.8	1045.1	937.3	907.8
27.5°	570.0	586.1	670.4	562.7	546.7
30°	354.5	346.5	386.3	331.6	308.9
32.5°	232.6	222.4	235.1	211.1	192.8
35°	155.6	158.8	149.0	147.9	124.9
37.5°	97.1	111.7	98.6	105.1	80.3
40°	62.8	81.1	69.7	77.1	59.1
42.5°	51.5	62.5	57.4	61.0	52.6
45°	40.9	50.8	50.8	50.8	41.3
47.5°	22.6	34.0	43.4	34.7	24.1
50°	12.8	17.2	33.6	17.9	13.5
52.5°	8.8	9.9	23.0	10.2	9.1
55°	6.6	6.9	12.4	7.3	6.9
57.5°	5.1	5.5	6.6	5.5	5.1
60°	4.0	4.0	4.8	4.4	4.0
62.5°	2.9	2.9	3.3	2.9	2.9
65°	2.2	2.2	2.2	2.2	2.2
67.5°	1.1	1.4	1.4	1.4	1.4
70°	1.1	0.7	0.7	0.7	1.1
72.5°	0.7	0.3	0.3	0.3	0.3
75°	0.0	0.0	0.3	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

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Scaled Data Report





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

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