

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: P742112

Luminaire Tested: LD4D10D010-EU4DR300210IC9027-4LBCSSQMW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P742112
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-EU4DR300210IC9027-4LBCSSQMW
Description: 4 INCH SQAURE SHALLOW CAST MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 863.3 lumens
Efficiency: N/A
Efficacy: 73.8 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): 11.7
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



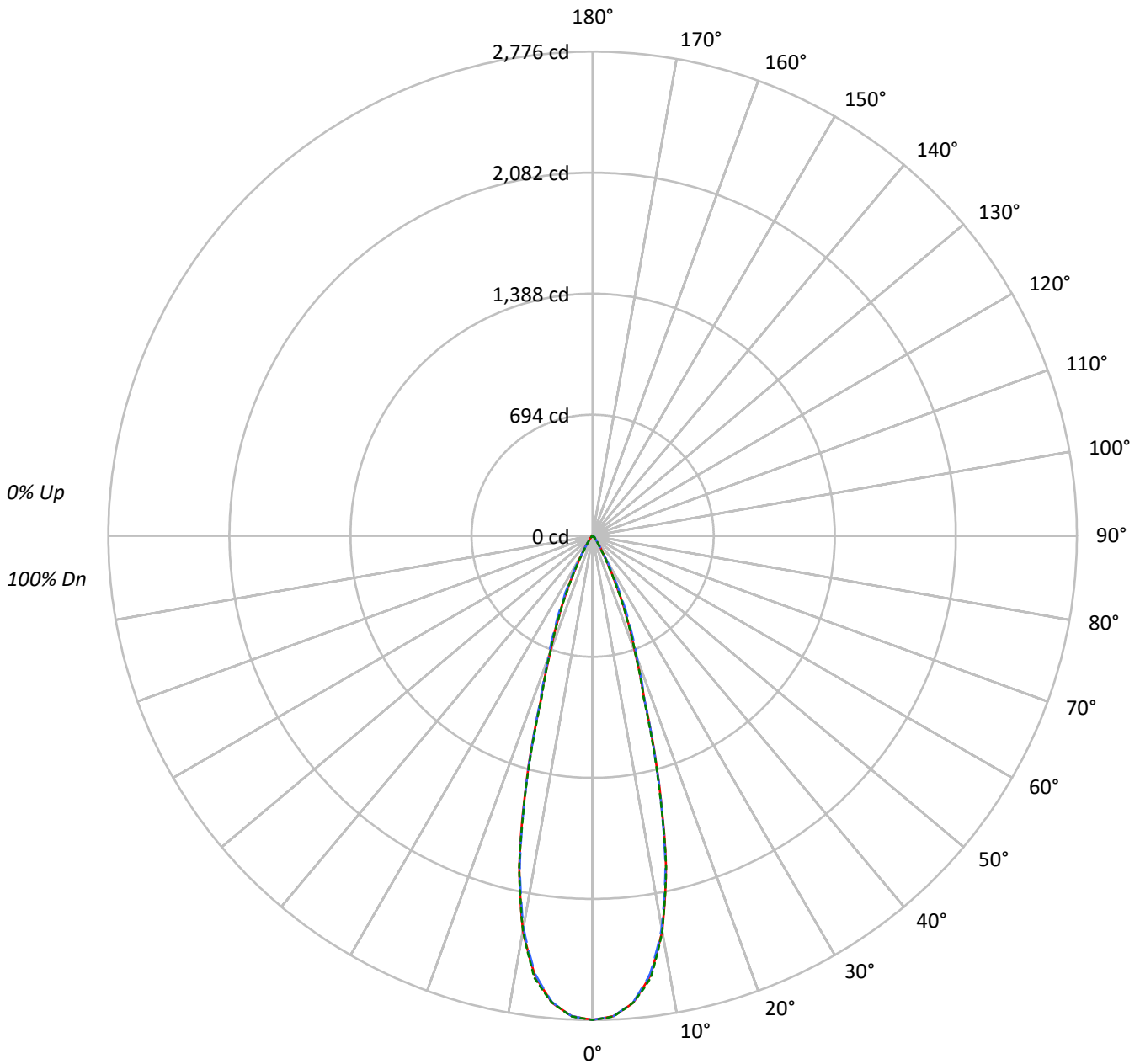
Downlight



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	212462	212462	212462
5°	206358	206120	206373
10°	178742	177475	178696
15°	116615	115989	115410
20°	57988	60163	57915
25°	29213	32938	28614
30°	11702	12745	10191
35°	5420	5195	4354
40°	2338	2598	2208
45°	1645	2057	1667
50°	572	1489	595
55°	334	614	347
60°	230	276	230
65°	145	145	145
70°	90	67	90
75°	0	30	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 2057 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	244.1	28.3
10°-20°	393.1	45.5
20°-30°	169.9	19.7
30°-40°	38.7	4.5
40°-50°	13.3	1.5
50°-60°	3.3	0.4
60°-70°	0.9	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°	807.0	93.5
0°-40°	845.8	98.0
0°-60°	862.3	99.9
0°-90°	863.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	863.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2776	2776	2776	2776	2776	
5°	2686	2683	2683	2688	2686	244
15°	1472	1454	1464	1459	1456	394
25°	346	359	390	350	339	166
35°	58	59	56	55	47	39
45°	15	19	19	19	15	11
55°	2	3	5	3	3	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°	2775.7	2775.7	2775.7	2775.7	2775.7
2.5°	2757.3	2755.4	2756.5	2757.8	2758.4
5°	2685.7	2683.1	2682.6	2688.2	2685.9
7.5°	2541.4	2537.7	2532.2	2544.8	2556.7
10°	2299.7	2295.6	2283.4	2289.5	2299.1
12.5°	1942.8	1929.5	1929.2	1948.3	1945.7
15°	1471.6	1453.9	1463.7	1459.0	1456.4
17.5°	989.7	982.8	995.9	991.9	974.9
20°	711.9	713.7	738.6	726.1	711.0
22.5°	519.5	525.9	555.5	523.2	511.3
25°	345.9	359.0	390.0	349.8	338.8
27.5°	212.7	218.7	250.2	210.0	204.0
30°	132.4	129.3	144.2	123.8	115.3
32.5°	86.8	83.0	87.8	78.8	72.0
35°	58.0	59.3	55.6	55.2	46.6
37.5°	36.3	41.7	36.8	39.2	30.0
40°	23.4	30.3	26.0	28.8	22.1
42.5°	19.2	23.3	21.4	22.7	19.7
45°	15.2	19.0	19.0	19.0	15.4
47.5°	8.4	12.7	16.2	12.9	9.0
50°	4.8	6.4	12.5	6.7	5.0
52.5°	3.3	3.7	8.6	3.8	3.4
55°	2.5	2.6	4.6	2.8	2.6
57.5°	1.9	2.1	2.5	2.1	1.9
60°	1.5	1.5	1.8	1.7	1.5
62.5°	1.1	1.1	1.2	1.1	1.1
65°	0.8	0.8	0.8	0.8	0.8
67.5°	0.4	0.6	0.6	0.6	0.6
70°	0.4	0.3	0.3	0.3	0.4
72.5°	0.3	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

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Scaled Data Report





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

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