

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: P744121

Luminaire Tested: LD4D20D010-EU4DR3020359030-4LBCSSQMW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P744121
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: LD4D20D010-EU4DR3020359030-4LBCSSQMW
Description: 4 INCH SQAURE SHALLOW CAST MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1644.6 lumens
Efficiency: N/A
Efficacy: 71.2 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): 23.1
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

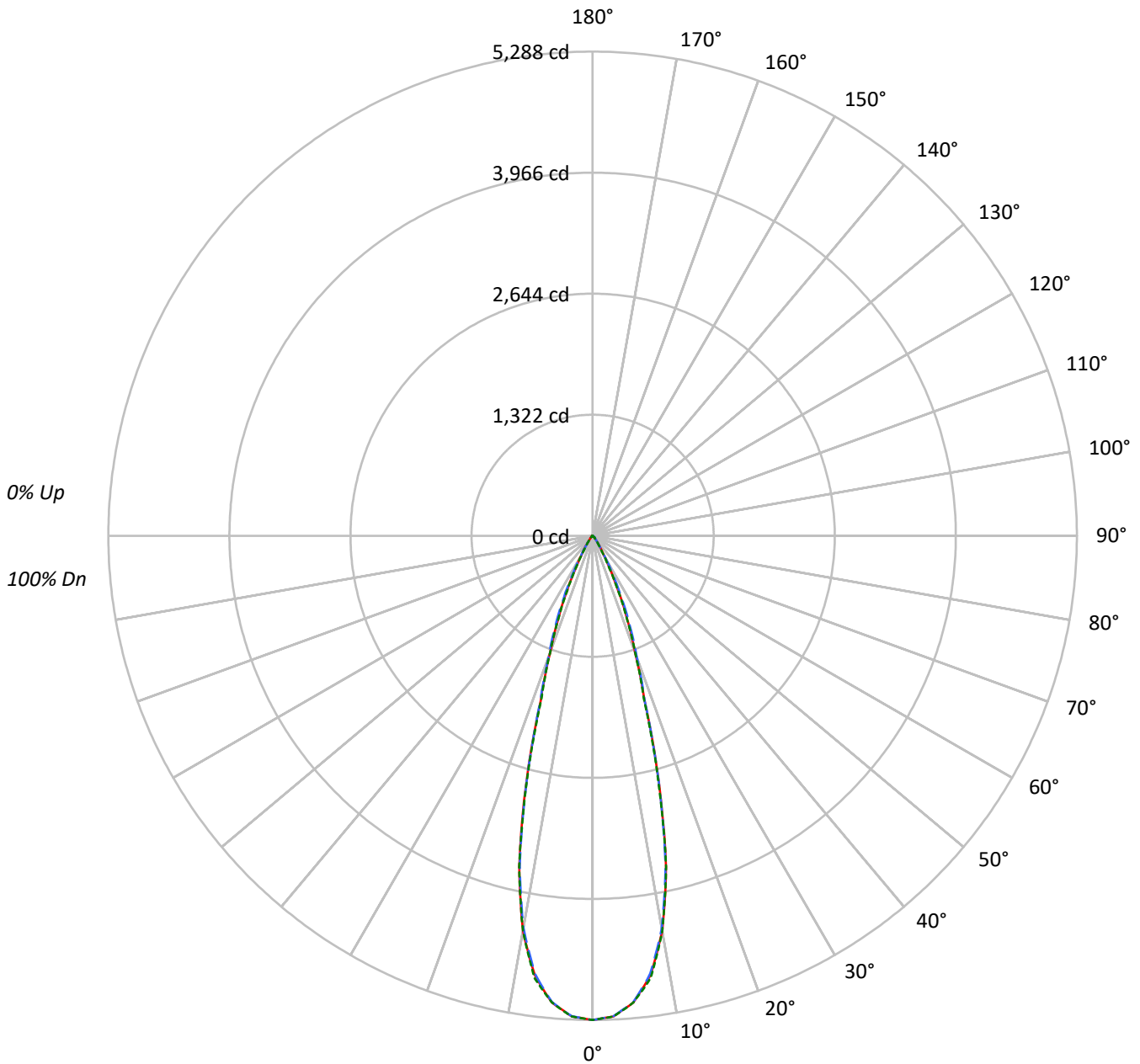


Downlight



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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	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°	404777	404777	404777
5°	393161	392700	393176
10°	340541	338131	340455
15°	222183	220987	219877
20°	110478	114625	110332
25°	55657	62759	54508
30°	22282	24279	19418
35°	10335	9896	8298
40°	4456	4956	4207
45°	3150	3908	3172
50°	1084	2846	1143
55°	627	1174	654
60°	444	520	444
65°	272	272	272
70°	179	112	179
75°	0	89	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 3908 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	465.0	28.3
10°-20°	748.9	45.5
20°-30°	323.6	19.7
30°-40°	73.8	4.5
40°-50°	25.3	1.5
50°-60°	6.2	0.4
60°-70°	1.6	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°	1537.6	93.5
0°-40°	1611.3	98.0
0°-60°	1642.8	99.9
0°-90°	1644.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1644.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5288	5288	5288	5288	5288	
5°	5117	5112	5111	5122	5117	465
15°	2804	2770	2789	2780	2775	751
25°	659	684	743	666	645	315
35°	111	113	106	105	89	75
45°	29	36	36	36	29	21
55°	5	5	9	5	5	5
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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5288.2	5288.2	5288.2	5288.2	5288.2
2.5°	5253.2	5249.5	5251.6	5254.2	5255.3
5°	5116.9	5111.9	5110.9	5121.6	5117.1
7.5°	4842.0	4834.9	4824.3	4848.4	4871.0
10°	4381.4	4373.6	4350.4	4361.9	4380.3
12.5°	3701.4	3676.2	3675.7	3712.0	3707.0
15°	2803.8	2770.0	2788.7	2779.7	2774.7
17.5°	1885.5	1872.5	1897.4	1889.9	1857.4
20°	1356.3	1359.7	1407.2	1383.3	1354.5
22.5°	989.7	1001.9	1058.3	996.8	974.1
25°	659.0	683.9	743.1	666.5	645.4
27.5°	405.3	416.7	476.7	400.1	388.7
30°	252.1	246.4	274.7	235.8	219.7
32.5°	165.4	158.1	167.2	150.1	137.1
35°	110.6	112.9	105.9	105.1	88.8
37.5°	69.0	79.5	70.1	74.8	57.1
40°	44.6	57.6	49.6	54.8	42.1
42.5°	36.6	44.4	40.7	43.4	37.4
45°	29.1	36.1	36.1	36.1	29.3
47.5°	16.1	24.1	30.9	24.6	17.1
50°	9.1	12.2	23.9	12.7	9.6
52.5°	6.2	7.0	16.3	7.3	6.5
55°	4.7	4.9	8.8	5.2	4.9
57.5°	3.6	3.9	4.7	3.9	3.6
60°	2.9	2.9	3.4	3.1	2.9
62.5°	2.1	2.1	2.3	2.1	2.1
65°	1.5	1.5	1.5	1.5	1.5
67.5°	0.8	1.0	1.0	1.0	1.0
70°	0.8	0.5	0.5	0.5	0.8
72.5°	0.5	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

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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