

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: P746016

Luminaire Tested: LD4D30D010-EU4DR3020359035-4LBSQW1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P746016
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-EU4DR3020359035-4LBSQW1MW
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2321.2 lumens
Efficiency: N/A
Efficacy: 80.0 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



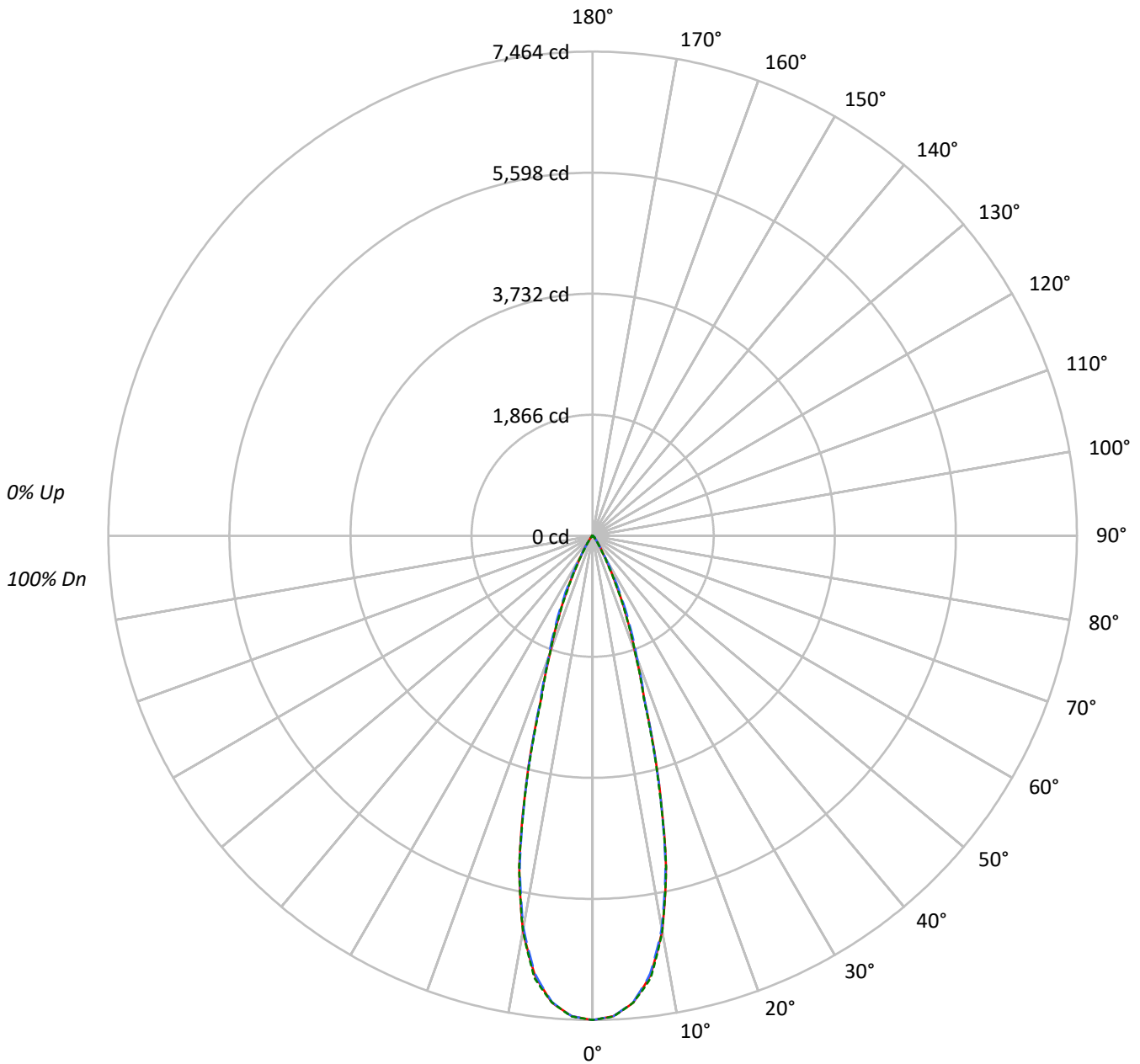
Downlight



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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	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°	571312	571312	571312
5°	554908	554263	554939
10°	480639	477250	480522
15°	313591	311911	310334
20°	155931	161787	155727
25°	78553	88578	76940
30°	31447	34267	27399
35°	14586	13970	11708
40°	6295	6994	5935
45°	4438	5510	4481
50°	1524	4013	1619
55°	881	1655	934
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: 5510 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	656.3	28.3
10°-20°	1057.0	45.5
20°-30°	456.8	19.7
30°-40°	104.1	4.5
40°-50°	35.7	1.5
50°-60°	8.7	0.4
60°-70°	2.3	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°	2170.1	93.5
0°-40°	2274.2	98.0
0°-60°	2318.7	99.9
0°-90°	2321.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2321.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7464	7464	7464	7464	7464	
5°	7222	7215	7214	7229	7222	657
15°	3957	3910	3936	3923	3916	1060
25°	930	965	1049	941	911	445
35°	156	159	150	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°	7463.9	7463.9	7463.9	7463.9	7463.9
2.5°	7414.4	7409.3	7412.2	7415.9	7417.3
5°	7222.0	7215.1	7213.6	7228.6	7222.4
7.5°	6833.9	6824.1	6809.0	6843.1	6875.0
10°	6183.9	6172.9	6140.3	6156.4	6182.4
12.5°	5224.1	5188.6	5187.8	5239.2	5232.2
15°	3957.3	3909.6	3936.1	3923.2	3916.2
17.5°	2661.2	2642.9	2678.0	2667.4	2621.6
20°	1914.3	1919.1	1986.2	1952.4	1911.8
22.5°	1396.9	1414.2	1493.7	1406.8	1374.9
25°	930.1	965.3	1048.8	940.7	911.0
27.5°	572.0	588.1	672.8	564.7	548.6
30°	355.8	347.8	387.7	332.7	310.0
32.5°	233.4	223.2	236.0	211.8	193.5
35°	156.1	159.4	149.5	148.4	125.3
37.5°	97.5	112.1	98.9	105.5	80.6
40°	63.0	81.4	70.0	77.3	59.4
42.5°	51.7	62.7	57.5	61.2	52.8
45°	41.0	50.9	50.9	50.9	41.4
47.5°	22.7	34.1	43.6	34.8	24.2
50°	12.8	17.2	33.7	17.9	13.6
52.5°	8.8	9.9	23.1	10.3	9.2
55°	6.6	7.0	12.4	7.3	7.0
57.5°	5.2	5.5	6.6	5.5	5.2
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	1.5	1.5	1.5	1.5
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

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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