

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: P752243

Luminaire Tested: LD4D70BD010-EU4DR3070959030-4LBSQW1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P752243
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: LD4D70BD010-EU4DR3070959030-4LBSQW1MW
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

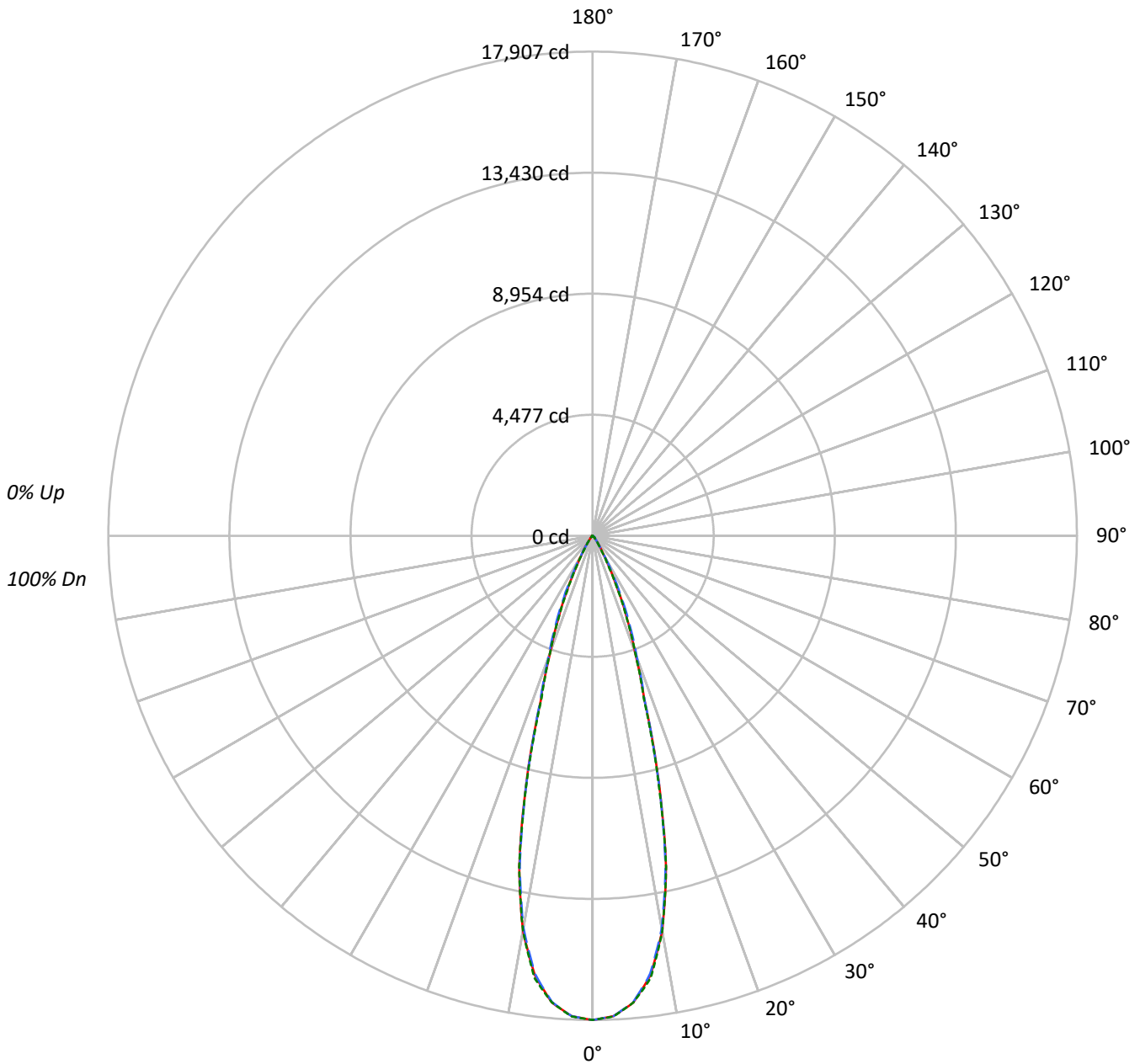
Lumens per Lamp: N/A
Luminaire Lumens: 5568.9 lumens
Efficiency: N/A
Efficacy: 83.6 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

Input Watts (W): 66.6
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



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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					70					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°	1370632	1370632	1370632
5°	1331287	1329728	1331349
10°	1153093	1144963	1152821
15°	752338	748297	744533
20°	374102	388137	373597
25°	188447	212500	184588
30°	75454	82207	65741
35°	34994	33518	28098
40°	15108	16777	14229
45°	10662	13228	10749
50°	3668	9634	3870
55°	2108	3990	2229
60°	1485	1745	1485
65°	960	960	960
70°	582	403	582
75°	0	266	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 13228 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1574.6	28.3
10°-20°	2535.9	45.5
20°-30°	1095.8	19.7
30°-40°	249.8	4.5
40°-50°	85.8	1.5
50°-60°	20.9	0.4
60°-70°	5.4	0.1
70°-80°	0.6	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°	5206.4	93.5
0°-40°	5456.2	98.0
0°-60°	5562.9	99.9
0°-90°	5568.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5568.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	17907	17907	17907	17907	17907	
5°	17326	17310	17306	17342	17327	1576
15°	9494	9380	9443	9412	9396	2542
25°	2231	2316	2516	2257	2186	1068
35°	374	382	359	356	301	254
45°	98	122	122	122	99	70
55°	16	17	30	18	17	15
65°	5	5	5	5	5	5
75°	0	0	1	0	0	1
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°	17906.6	17906.6	17906.6	17906.6	17906.6
2.5°	17787.9	17775.6	17782.6	17791.4	17795.0
5°	17326.4	17309.7	17306.1	17342.2	17327.2
7.5°	16395.3	16371.6	16335.6	16417.3	16493.8
10°	14835.7	14809.3	14731.1	14769.8	14832.2
12.5°	12533.2	12447.9	12446.2	12569.3	12552.6
15°	9494.0	9379.7	9443.0	9412.2	9395.5
17.5°	6384.4	6340.5	6424.9	6399.4	6289.5
20°	4592.7	4604.1	4765.0	4684.1	4586.5
22.5°	3351.3	3392.7	3583.4	3375.1	3298.6
25°	2231.3	2315.7	2516.1	2256.8	2185.6
27.5°	1372.4	1411.0	1614.1	1354.8	1316.1
30°	853.7	834.3	930.1	798.3	743.8
32.5°	560.0	535.4	566.2	508.2	464.2
35°	374.5	382.4	358.7	356.1	300.7
37.5°	233.9	269.0	237.4	253.2	193.4
40°	151.2	195.2	167.9	185.5	142.4
42.5°	124.0	150.3	138.0	146.8	126.6
45°	98.5	122.2	122.2	122.2	99.3
47.5°	54.5	81.8	104.6	83.5	58.0
50°	30.8	41.3	80.9	43.1	32.5
52.5°	21.1	23.7	55.4	24.6	22.0
55°	15.8	16.7	29.9	17.6	16.7
57.5°	12.3	13.2	15.8	13.2	12.3
60°	9.7	9.7	11.4	10.5	9.7
62.5°	7.0	7.0	7.9	7.0	7.0
65°	5.3	5.3	5.3	5.3	5.3
67.5°	2.6	3.5	3.5	3.5	3.5
70°	2.6	1.8	1.8	1.8	2.6
72.5°	1.8	0.9	0.9	0.9	0.9
75°	0.0	0.0	0.9	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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