

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: P752259

Luminaire Tested: LD4D70BD010-EU4DR3070959040-4LBCSSQMW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P752259
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-EU4DR3070959040-4LBCSSQMW
Description: 4 INCH SQAURE SHALLOW CAST MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6399.2 lumens
Efficiency: N/A
Efficacy: 96.1 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

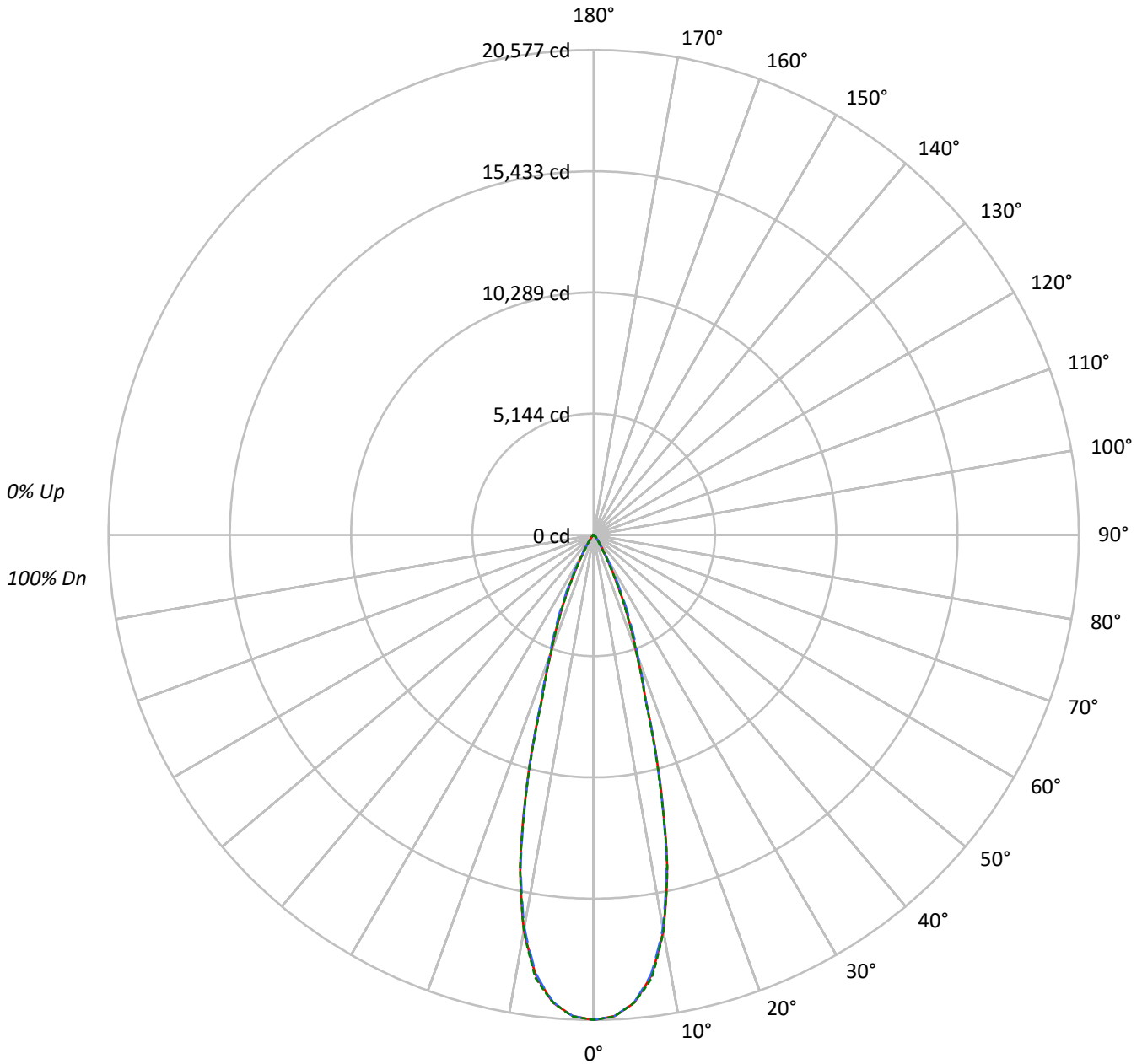
Input Watts (W): 66.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	1575003	1575003	1575003
5°	1529785	1528002	1529862
10°	1325027	1315684	1324716
15°	864515	859872	855545
20°	429883	446011	429305
25°	216546	244188	212112
30°	86697	94466	75542
35°	40218	38517	32284
40°	17366	19285	16357
45°	12243	15198	12362
50°	4215	11063	4454
55°	2429	4577	2562
60°	1699	2005	1699
65°	1105	1105	1105
70°	671	448	671
75°	0	296	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 15198 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1809.4	28.3
10°-20°	2914.1	45.5
20°-30°	1259.2	19.7
30°-40°	287.0	4.5
40°-50°	98.5	1.5
50°-60°	24.1	0.4
60°-70°	6.2	0.1
70°-80°	0.7	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°	5982.7	93.5
0°-40°	6269.7	98.0
0°-60°	6392.3	99.9
0°-90°	6399.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6399.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	20577	20577	20577	20577	20577	
5°	19910	19891	19887	19928	19911	1811
15°	10910	10778	10851	10816	10796	2921
25°	2564	2661	2891	2593	2512	1227
35°	430	440	412	409	346	292
45°	113	140	140	140	114	80
55°	18	19	34	20	19	18
65°	6	6	6	6	6	6
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°	20576.6	20576.6	20576.6	20576.6	20576.6
2.5°	20440.2	20426.1	20434.1	20444.2	20448.3
5°	19909.8	19890.6	19886.6	19928.0	19910.8
7.5°	18840.0	18812.7	18771.3	18865.2	18953.1
10°	17047.8	17017.5	16927.6	16972.0	17043.8
12.5°	14402.0	14304.0	14302.0	14443.4	14424.2
15°	10909.6	10778.3	10851.0	10815.6	10796.4
17.5°	7336.4	7285.9	7382.8	7353.5	7227.3
20°	5277.5	5290.6	5475.5	5382.6	5270.4
22.5°	3851.0	3898.5	4117.7	3878.3	3790.4
25°	2564.0	2661.0	2891.3	2593.3	2511.5
27.5°	1577.0	1621.4	1854.8	1556.8	1512.3
30°	980.9	958.7	1068.8	917.3	854.7
32.5°	643.5	615.2	650.6	583.9	533.4
35°	430.4	439.5	412.2	409.1	345.5
37.5°	268.7	309.1	272.8	290.9	222.3
40°	173.8	224.3	193.0	213.2	163.7
42.5°	142.4	172.8	158.6	168.7	145.5
45°	113.1	140.4	140.4	140.4	114.2
47.5°	62.6	94.0	120.2	96.0	66.7
50°	35.4	47.5	92.9	49.5	37.4
52.5°	24.2	27.3	63.6	28.3	25.3
55°	18.2	19.2	34.3	20.2	19.2
57.5°	14.1	15.2	18.2	15.2	14.1
60°	11.1	11.1	13.1	12.1	11.1
62.5°	8.1	8.1	9.1	8.1	8.1
65°	6.1	6.1	6.1	6.1	6.1
67.5°	3.0	4.0	4.0	4.0	4.0
70°	3.0	2.0	2.0	2.0	3.0
72.5°	2.0	1.0	1.0	1.0	1.0
75°	0.0	0.0	1.0	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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