

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: P753819

Luminaire Tested: LD4D80BD010-EU4DR3070959040-4LBCSSQMW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P753819
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: LD4D80BD010-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: 7180.0 lumens
Efficiency: N/A
Efficacy: 91.0 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

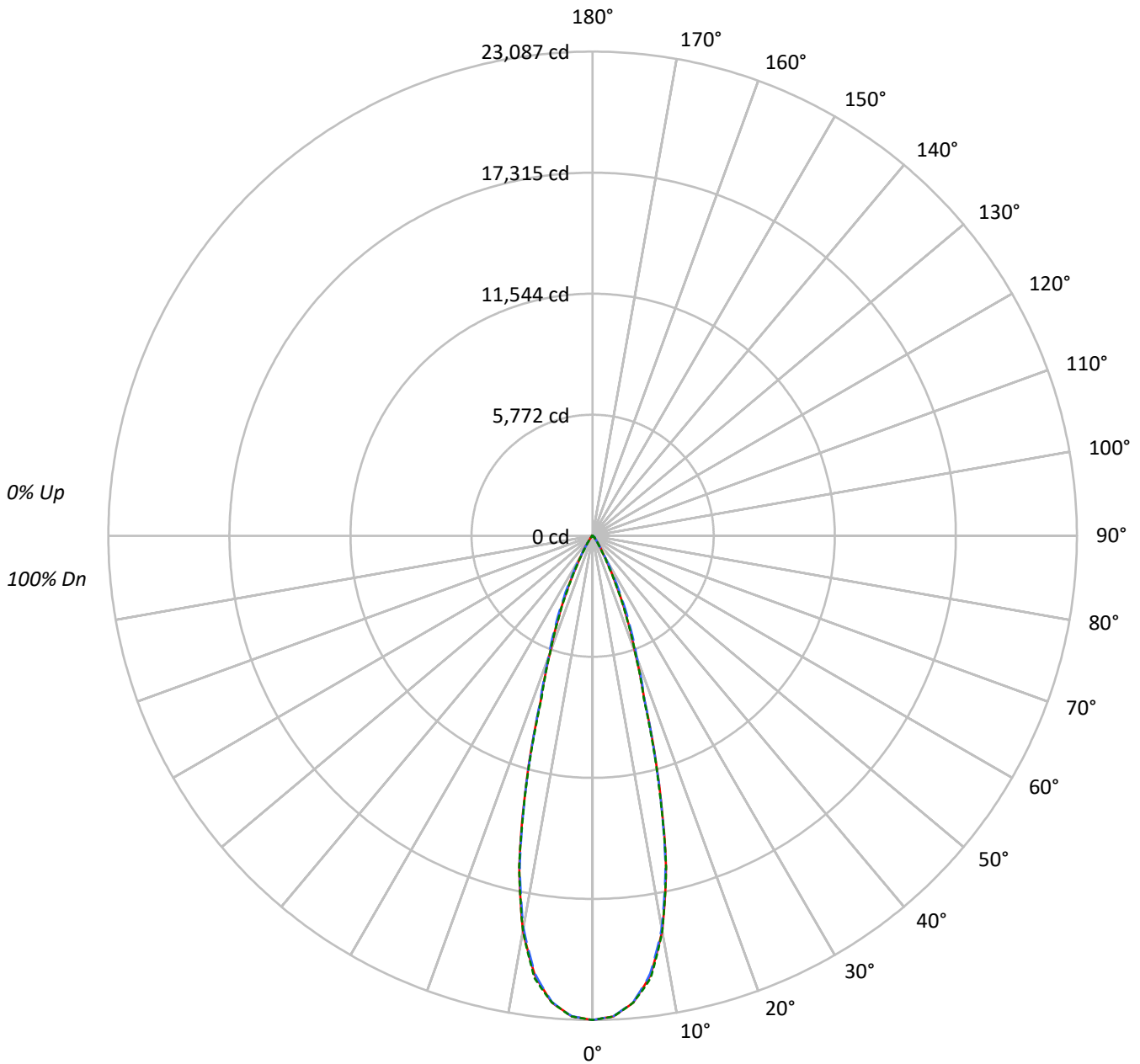
Input Watts (W): 78.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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									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	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°	1767157	1767157	1767157
5°	1716427	1714421	1716511
10°	1486685	1476200	1486335
15°	969989	964782	959933
20°	482332	500424	481681
25°	242964	273985	237989
30°	97276	105991	84752
35°	45123	43217	36228
40°	19484	21633	18345
45°	13748	17060	13867
50°	4727	12420	4989
55°	2722	5138	2869
60°	1914	2250	1914
65°	1232	1232	1232
70°	761	515	761
75°	0	325	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 17060 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2030.2	28.3
10°-20°	3269.6	45.5
20°-30°	1412.9	19.7
30°-40°	322.0	4.5
40°-50°	110.6	1.5
50°-60°	27.0	0.4
60°-70°	7.0	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°	6712.6	93.5
0°-40°	7034.6	98.0
0°-60°	7172.2	99.9
0°-90°	7180.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7180.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	23087	23087	23087	23087	23087	
5°	22339	22317	22313	22359	22340	2032
15°	12241	12093	12175	12135	12114	3278
25°	2877	2986	3244	2910	2818	1377
35°	483	493	462	459	388	328
45°	127	158	158	158	128	90
55°	20	22	38	23	22	20
65°	7	7	7	7	7	7
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°	23087.0	23087.0	23087.0	23087.0	23087.0
2.5°	22934.0	22918.1	22927.2	22938.5	22943.1
5°	22338.9	22317.4	22312.8	22359.3	22340.0
7.5°	21138.5	21107.9	21061.5	21166.9	21265.5
10°	19127.7	19093.7	18992.8	19042.7	19123.2
12.5°	16159.1	16049.1	16046.9	16205.6	16184.0
15°	12240.6	12093.3	12174.9	12135.2	12113.7
17.5°	8231.4	8174.8	8283.6	8250.7	8109.0
20°	5921.4	5936.1	6143.5	6039.3	5913.4
22.5°	4320.9	4374.2	4620.1	4351.5	4252.9
25°	2876.8	2985.6	3244.1	2909.7	2817.9
27.5°	1769.4	1819.3	2081.1	1746.7	1696.8
30°	1100.6	1075.7	1199.2	1029.2	958.9
32.5°	722.0	690.3	730.0	655.2	598.5
35°	482.9	493.1	462.5	459.1	387.7
37.5°	301.5	346.8	306.0	326.4	249.4
40°	195.0	251.6	216.5	239.2	183.6
42.5°	159.8	193.8	178.0	189.3	163.2
45°	127.0	157.6	157.6	157.6	128.1
47.5°	70.3	105.4	134.9	107.7	74.8
50°	39.7	53.3	104.3	55.5	41.9
52.5°	27.2	30.6	71.4	31.7	28.3
55°	20.4	21.5	38.5	22.7	21.5
57.5°	15.9	17.0	20.4	17.0	15.9
60°	12.5	12.5	14.7	13.6	12.5
62.5°	9.1	9.1	10.2	9.1	9.1
65°	6.8	6.8	6.8	6.8	6.8
67.5°	3.4	4.5	4.5	4.5	4.5
70°	3.4	2.3	2.3	2.3	3.4
72.5°	2.3	1.1	1.1	1.1	1.1
75°	0.0	0.0	1.1	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

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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