

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: P753791

Luminaire Tested: LD4D80BD010-EU4DR3070959030-4LBCSSQMB

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P753791
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-EU4DR3070959030-4LBCSSQMB
Description: 4 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6786.7 lumens
Efficiency: N/A
Efficacy: 86.0 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

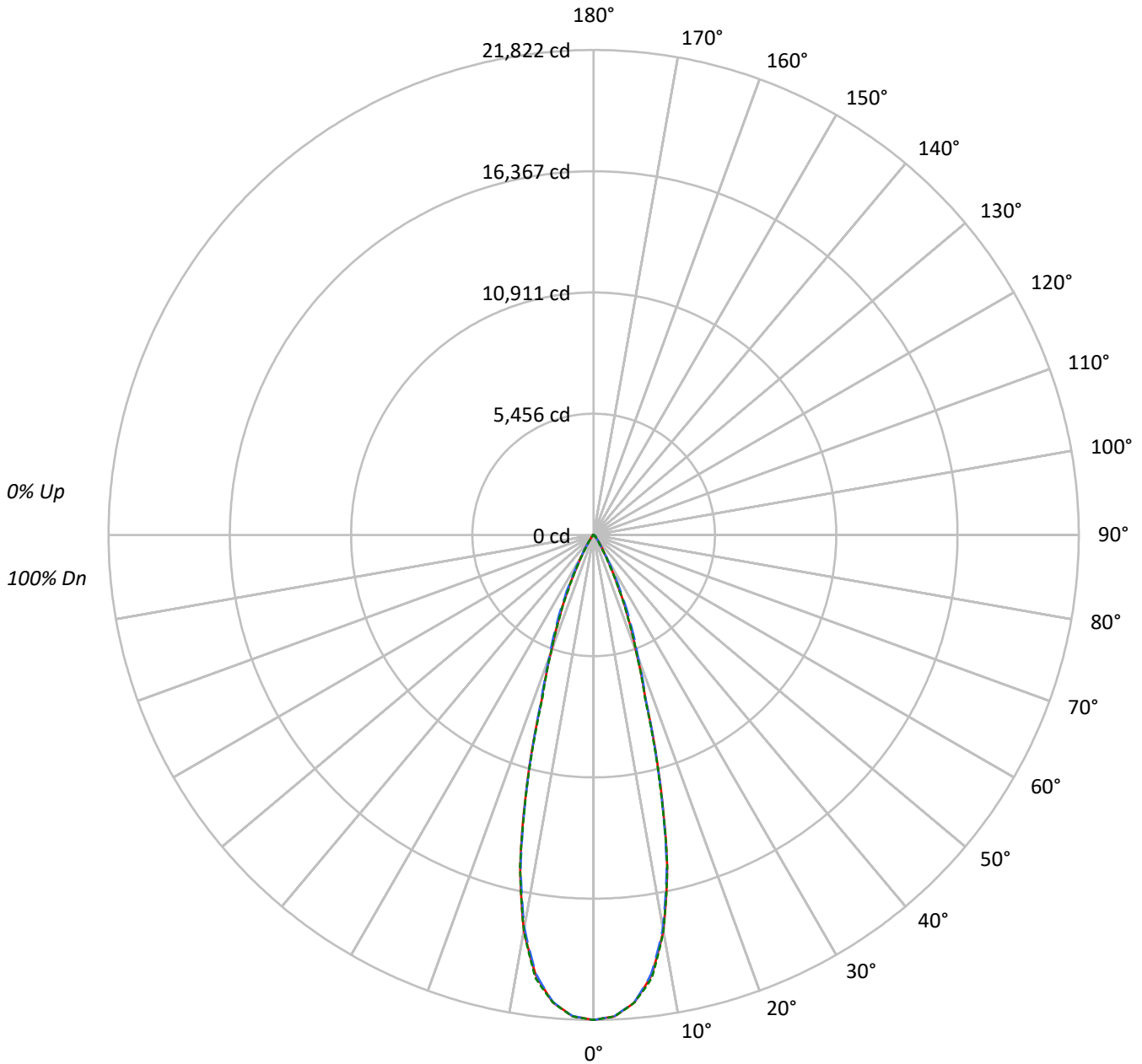
Input Watts (W): 78.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	1670368	1670368	1670368
5°	1622418	1620520	1622503
10°	1405261	1395351	1404927
15°	916864	911935	907355
20°	455916	473022	455305
25°	229654	258977	224949
30°	91947	100193	80112
35°	42647	40844	34237
40°	18415	20444	17346
45°	12990	16118	13109
50°	4466	11741	4716
55°	2576	4858	2722
60°	1806	2128	1806
65°	1159	1159	1159
70°	716	470	716
75°	0	325	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 16118 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1919.0	28.3
10°-20°	3090.5	45.5
20°-30°	1335.5	19.7
30°-40°	304.4	4.5
40°-50°	104.5	1.5
50°-60°	25.5	0.4
60°-70°	6.6	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°	6345.0	93.5
0°-40°	6649.3	98.0
0°-60°	6779.4	99.9
0°-90°	6786.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6786.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	21822	21822	21822	21822	21822	
5°	21115	21095	21091	21135	21116	1921
15°	11570	11431	11508	11470	11450	3098
25°	2719	2822	3066	2750	2664	1302
35°	456	466	437	434	366	310
45°	120	149	149	149	121	85
55°	19	20	36	21	20	19
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°	21822.5	21822.5	21822.5	21822.5	21822.5
2.5°	21677.9	21662.9	21671.5	21682.2	21686.5
5°	21115.4	21095.0	21090.7	21134.7	21116.5
7.5°	19980.8	19951.8	19907.9	20007.6	20100.8
10°	18080.1	18047.9	17952.6	17999.7	18075.8
12.5°	15274.1	15170.1	15168.0	15318.0	15297.6
15°	11570.2	11430.9	11508.0	11470.5	11450.2
17.5°	7780.6	7727.0	7829.9	7798.8	7664.9
20°	5597.1	5611.0	5807.1	5708.5	5589.6
22.5°	4084.2	4134.6	4367.1	4113.2	4019.9
25°	2719.2	2822.1	3066.4	2750.3	2663.5
27.5°	1672.5	1719.6	1967.1	1651.0	1603.9
30°	1040.3	1016.8	1133.6	972.8	906.4
32.5°	682.5	652.5	690.0	619.3	565.7
35°	456.4	466.1	437.1	433.9	366.4
37.5°	285.0	327.9	289.3	308.6	235.7
40°	184.3	237.9	204.6	226.1	173.6
42.5°	151.1	183.2	168.2	178.9	154.3
45°	120.0	148.9	148.9	148.9	121.1
47.5°	66.4	99.6	127.5	101.8	70.7
50°	37.5	50.4	98.6	52.5	39.6
52.5°	25.7	28.9	67.5	30.0	26.8
55°	19.3	20.4	36.4	21.4	20.4
57.5°	15.0	16.1	19.3	16.1	15.0
60°	11.8	11.8	13.9	12.9	11.8
62.5°	8.6	8.6	9.6	8.6	8.6
65°	6.4	6.4	6.4	6.4	6.4
67.5°	3.2	4.3	4.3	4.3	4.3
70°	3.2	2.1	2.1	2.1	3.2
72.5°	2.1	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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