

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: P755338

Luminaire Tested: LD4D90BD010-EU4DR3070959027-4LBCSSQMB

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P755338
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: LD4D90BD010-EU4DR3070959027-4LBCSSQMB
Description: 4 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7439.8 lumens
Efficiency: N/A
Efficacy: 75.2 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

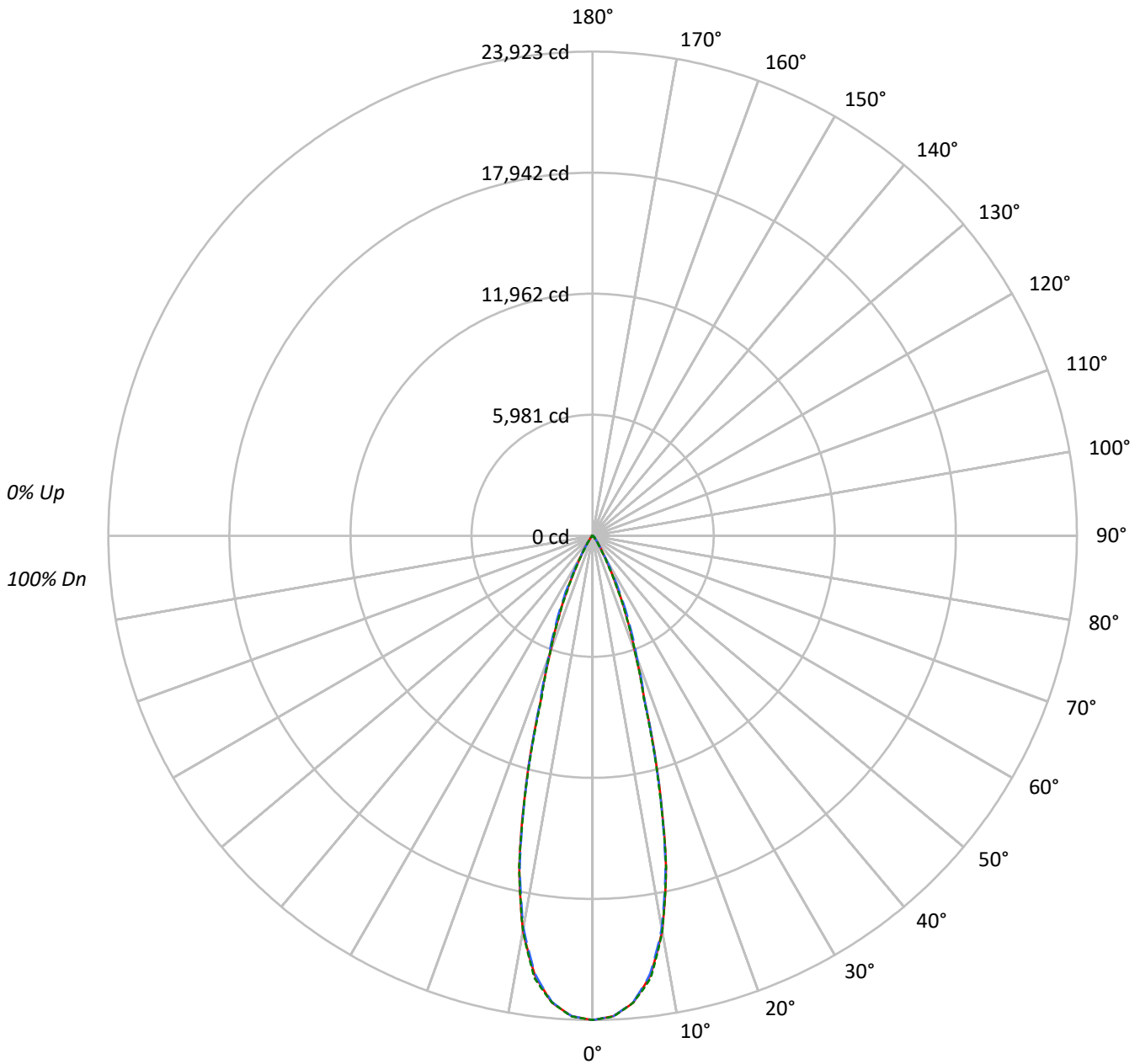
Input Watts (W): 98.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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					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°	1831117	1831117	1831117
5°	1778556	1776474	1778641
10°	1540494	1529636	1540128
15°	1005101	999697	994673
20°	499788	518539	499120
25°	251756	283900	246604
30°	100803	109827	87819
35°	46749	44778	37536
40°	20184	22412	19015
45°	14235	17677	14365
50°	4894	12873	5180
55°	2816	5325	2976
60°	1975	2342	1975
65°	1268	1268	1268
70°	783	515	783
75°	0	355	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 17677 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2103.6	28.3
10°-20°	3387.9	45.5
20°-30°	1464.0	19.7
30°-40°	333.7	4.5
40°-50°	114.6	1.5
50°-60°	28.0	0.4
60°-70°	7.2	0.1
70°-80°	0.8	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°	6955.6	93.5
0°-40°	7289.2	98.0
0°-60°	7431.8	99.9
0°-90°	7439.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7439.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	23923	23923	23923	23923	23923	
5°	23148	23125	23120	23169	23149	2105
15°	12684	12531	12616	12574	12552	3396
25°	2981	3094	3362	3015	2920	1427
35°	500	511	479	476	402	339
45°	132	163	163	163	133	93
55°	21	22	40	24	22	21
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°	23922.6	23922.6	23922.6	23922.6	23922.6
2.5°	23764.1	23747.6	23757.0	23768.8	23773.5
5°	23147.5	23125.1	23120.4	23168.6	23148.6
7.5°	21903.6	21871.9	21823.8	21933.0	22035.2
10°	19820.0	19784.8	19680.3	19732.0	19815.3
12.5°	16744.0	16630.0	16627.7	16792.1	16769.8
15°	12683.7	12531.0	12615.5	12574.4	12552.1
17.5°	8529.4	8470.6	8583.4	8549.3	8402.5
20°	6135.7	6151.0	6365.9	6257.8	6127.5
22.5°	4477.3	4532.5	4787.3	4509.0	4406.8
25°	2980.9	3093.7	3361.5	3015.0	2919.9
27.5°	1833.4	1885.1	2156.4	1809.9	1758.3
30°	1140.5	1114.6	1242.6	1066.5	993.6
32.5°	748.2	715.3	756.4	678.9	620.1
35°	500.3	510.9	479.2	475.7	401.7
37.5°	312.4	359.4	317.1	338.3	258.4
40°	202.0	260.7	224.3	247.8	190.3
42.5°	165.6	200.8	184.4	196.1	169.1
45°	131.5	163.3	163.3	163.3	132.7
47.5°	72.8	109.2	139.8	111.6	77.5
50°	41.1	55.2	108.1	57.6	43.5
52.5°	28.2	31.7	74.0	32.9	29.4
55°	21.1	22.3	39.9	23.5	22.3
57.5°	16.4	17.6	21.1	17.6	16.4
60°	12.9	12.9	15.3	14.1	12.9
62.5°	9.4	9.4	10.6	9.4	9.4
65°	7.0	7.0	7.0	7.0	7.0
67.5°	3.5	4.7	4.7	4.7	4.7
70°	3.5	2.3	2.3	2.3	3.5
72.5°	2.3	1.2	1.2	1.2	1.2
75°	0.0	0.0	1.2	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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