

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: P748307

Luminaire Tested: LD4D45BD010-EU4DR3040509024-4LBCSSQMW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P748307
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: LD4D45BD010-EU4DR3040509024-4LBCSSQMW
Description: 4 INCH SQAURE SHALLOW CAST MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3149.3 lumens
Efficiency: N/A
Efficacy: 81.4 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

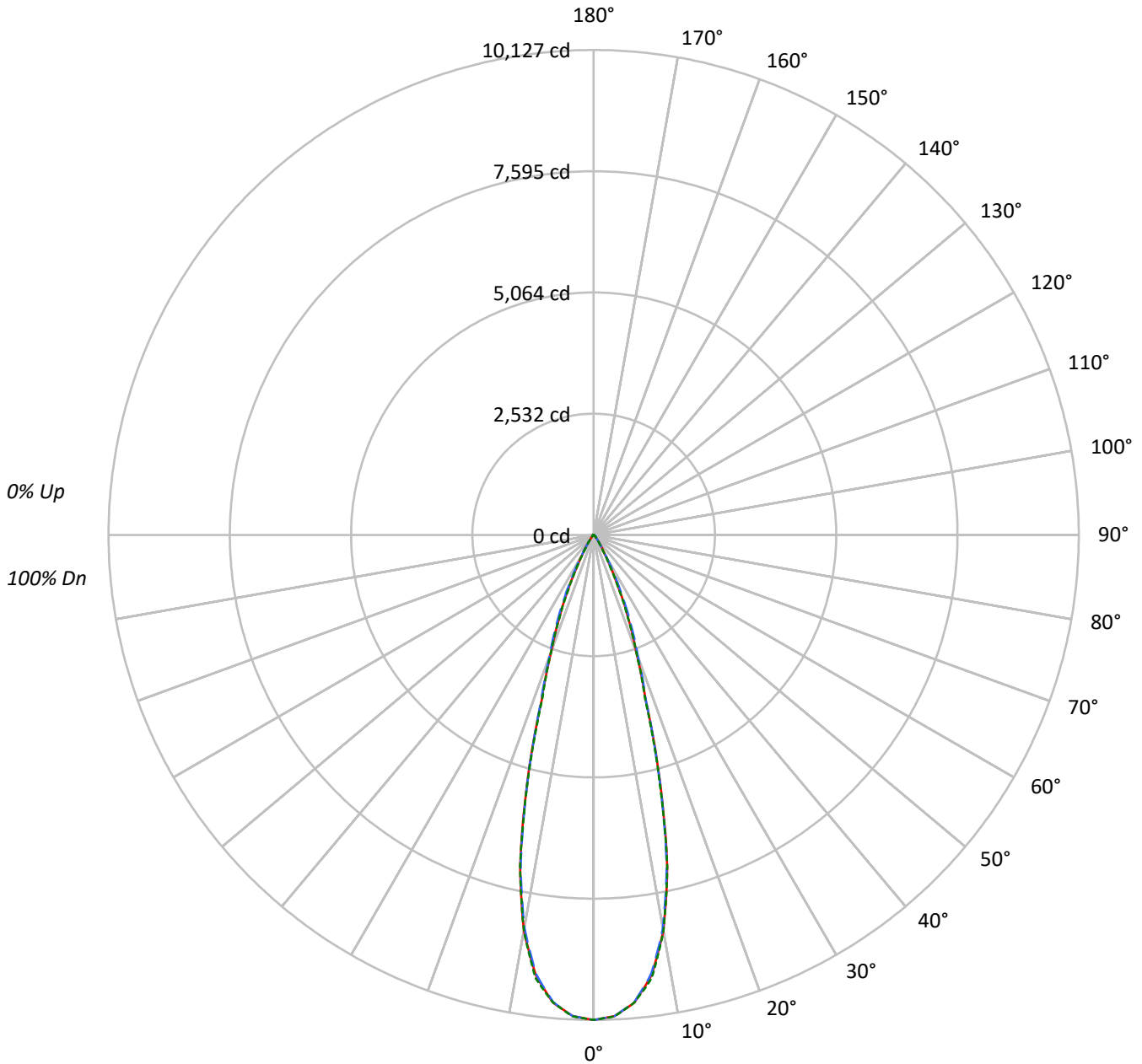
Input Watts (W): 38.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	775124	775124	775124
5°	752875	751999	752914
10°	652106	647505	651951
15°	425467	423176	421053
20°	211565	219499	211280
25°	106575	120173	104388
30°	42672	46490	37175
35°	19791	18959	15885
40°	8543	9492	8044
45°	6029	7480	6084
50°	2072	5442	2191
55°	1188	2255	1254
60°	842	995	842
65°	543	543	543
70°	336	224	336
75°	0	148	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 7480 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	890.5	28.3
10°-20°	1434.1	45.5
20°-30°	619.7	19.7
30°-40°	141.3	4.5
40°-50°	48.5	1.5
50°-60°	11.8	0.4
60°-70°	3.1	0.1
70°-80°	0.3	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°	2944.3	93.5
0°-40°	3085.6	98.0
0°-60°	3145.9	99.9
0°-90°	3149.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3149.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10127	10127	10127	10127	10127	
5°	9798	9789	9787	9807	9799	891
15°	5369	5304	5340	5323	5313	1438
25°	1262	1310	1423	1276	1236	604
35°	212	216	203	201	170	144
45°	56	69	69	69	56	40
55°	9	9	17	10	9	9
65°	3	3	3	3	3	3
75°	0	0	0	0	0	0
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°	10126.6	10126.6	10126.6	10126.6	10126.6
2.5°	10059.5	10052.5	10056.5	10061.5	10063.5
5°	9798.5	9789.0	9787.1	9807.4	9799.0
7.5°	9272.0	9258.5	9238.2	9284.4	9327.7
10°	8390.0	8375.1	8330.8	8352.7	8388.0
12.5°	7087.8	7039.6	7038.6	7108.2	7098.8
15°	5369.1	5304.4	5340.2	5322.8	5313.4
17.5°	3610.5	3585.7	3633.4	3619.0	3556.8
20°	2597.3	2603.7	2694.7	2649.0	2593.8
22.5°	1895.3	1918.6	2026.5	1908.7	1865.4
25°	1261.9	1309.6	1422.9	1276.3	1236.0
27.5°	776.1	798.0	912.8	766.2	744.3
30°	482.8	471.8	526.0	451.4	420.6
32.5°	316.7	302.8	320.2	287.4	262.5
35°	211.8	216.3	202.9	201.4	170.0
37.5°	132.3	152.1	134.2	143.2	109.4
40°	85.5	110.4	95.0	104.9	80.5
42.5°	70.1	85.0	78.1	83.0	71.6
45°	55.7	69.1	69.1	69.1	56.2
47.5°	30.8	46.2	59.2	47.2	32.8
50°	17.4	23.4	45.7	24.4	18.4
52.5°	11.9	13.4	31.3	13.9	12.4
55°	8.9	9.4	16.9	9.9	9.4
57.5°	7.0	7.5	8.9	7.5	7.0
60°	5.5	5.5	6.5	6.0	5.5
62.5°	4.0	4.0	4.5	4.0	4.0
65°	3.0	3.0	3.0	3.0	3.0
67.5°	1.5	2.0	2.0	2.0	2.0
70°	1.5	1.0	1.0	1.0	1.5
72.5°	1.0	0.5	0.5	0.5	0.5
75°	0.0	0.0	0.5	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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