

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: P749097

Luminaire Tested: LD4D50D010-EU4DR3040509024-4LBSQW1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P749097
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: LD4D50D010-EU4DR3040509024-4LBSQW1MW
Description: 4 INCH SQAURE DEEP 45° CUTOFF 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: 3404.6 lumens
Efficiency: N/A
Efficacy: 72.4 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

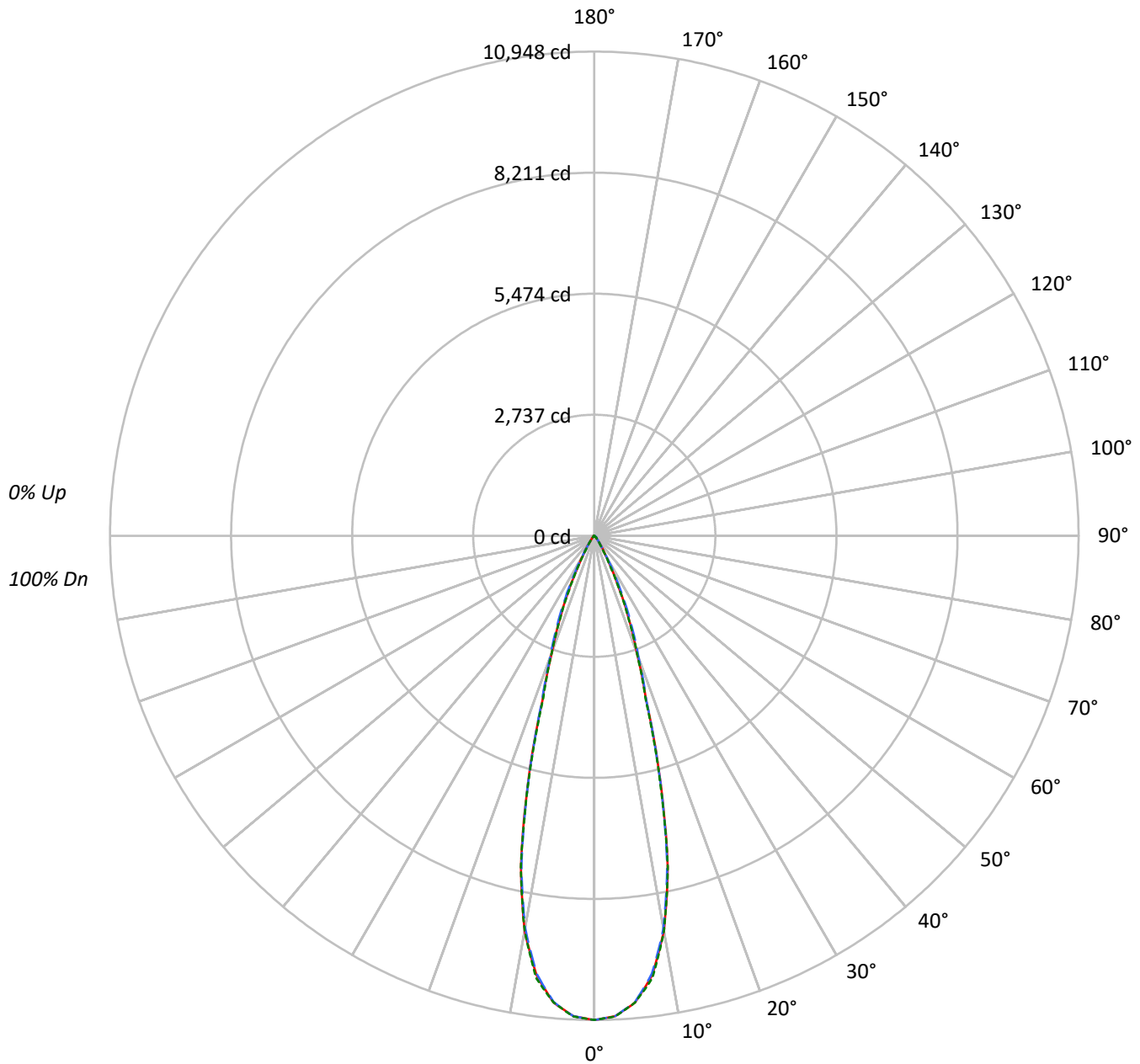
Input Watts (W): 47
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	115	113	111	109	112	110	109	107	106	105	104		103	102	101		99
2	111	107	104	101	109	105	102	100	102	100	98		99	97	96		97
3	107	102	98	95	105	101	97	94	98	95	93		96	93	91		94
4	103	98	93	90	102	96	93	90	94	91	89		93	90	88		91
5	100	94	89	86	98	93	89	86	91	88	85		90	86	84		88
6	97	90	85	82	95	89	85	82	88	84	81		87	83	81		85
7	94	87	82	79	92	86	82	79	85	81	78		84	81	78		83
8	91	84	79	76	90	83	79	76	82	78	76		81	78	75		80
9	88	81	76	73	87	80	76	73	80	76	73		79	75	73		78
10	85	78	74	71	85	78	74	71	77	73	71		76	73	71		76

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	837966	837966	837966
5°	813906	812961	813952
10°	704966	700000	704803
15°	459953	457489	455183
20°	228712	237297	228410
25°	115207	129919	112850
30°	46128	50264	40189
35°	21398	20492	17175
40°	9233	10262	8703
45°	6517	8086	6571
50°	2239	5883	2370
55°	1294	2442	1361
60°	903	1072	903
65°	580	580	580
70°	358	246	358
75°	0	148	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 8086 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	962.7	28.3
10°-20°	1550.4	45.5
20°-30°	670.0	19.7
30°-40°	152.7	4.5
40°-50°	52.4	1.5
50°-60°	12.8	0.4
60°-70°	3.3	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°	3183.0	93.5
0°-40°	3335.7	98.0
0°-60°	3401.0	99.9
0°-90°	3404.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3404.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10948	10948	10948	10948	10948	
5°	10593	10583	10580	10602	10593	963
15°	5804	5734	5773	5754	5744	1554
25°	1364	1416	1538	1380	1336	653
35°	229	234	219	218	184	155
45°	60	75	75	75	61	43
55°	10	10	18	11	10	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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10947.6	10947.6	10947.6	10947.6	10947.6
2.5°	10875.0	10867.5	10871.8	10877.2	10879.3
5°	10592.8	10582.6	10580.5	10602.5	10593.4
7.5°	10023.6	10009.1	9987.1	10037.1	10083.8
10°	9070.1	9054.0	9006.2	9029.8	9068.0
12.5°	7662.4	7610.3	7609.2	7684.5	7674.3
15°	5804.3	5734.5	5773.2	5754.4	5744.1
17.5°	3903.2	3876.4	3928.0	3912.4	3845.2
20°	2807.8	2814.8	2913.2	2863.7	2804.1
22.5°	2048.9	2074.2	2190.8	2063.4	2016.7
25°	1364.1	1415.7	1538.3	1379.7	1336.2
27.5°	839.0	862.7	986.8	828.3	804.6
30°	521.9	510.1	568.7	488.0	454.7
32.5°	342.4	327.3	346.1	310.7	283.8
35°	229.0	233.8	219.3	217.7	183.8
37.5°	143.0	164.5	145.1	154.8	118.2
40°	92.4	119.3	102.7	113.4	87.1
42.5°	75.8	91.9	84.4	89.8	77.4
45°	60.2	74.7	74.7	74.7	60.7
47.5°	33.3	50.0	64.0	51.1	35.5
50°	18.8	25.3	49.4	26.3	19.9
52.5°	12.9	14.5	33.9	15.0	13.4
55°	9.7	10.2	18.3	10.7	10.2
57.5°	7.5	8.1	9.7	8.1	7.5
60°	5.9	5.9	7.0	6.4	5.9
62.5°	4.3	4.3	4.8	4.3	4.3
65°	3.2	3.2	3.2	3.2	3.2
67.5°	1.6	2.1	2.1	2.1	2.1
70°	1.6	1.1	1.1	1.1	1.6
72.5°	1.1	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



Report Generated By 670245859 / DESKTOP-T8S5UU9





— 0°-180° - - 45°-225° - - - 90°-270°







(END OF REPORT)