

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: P749161

Luminaire Tested: LD4D50D010-EU4DR3040509050-4LBSQW1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P749161
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-EU4DR3040509050-4LBSQW1B
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3823.2 lumens
Efficiency: N/A
Efficacy: 81.3 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

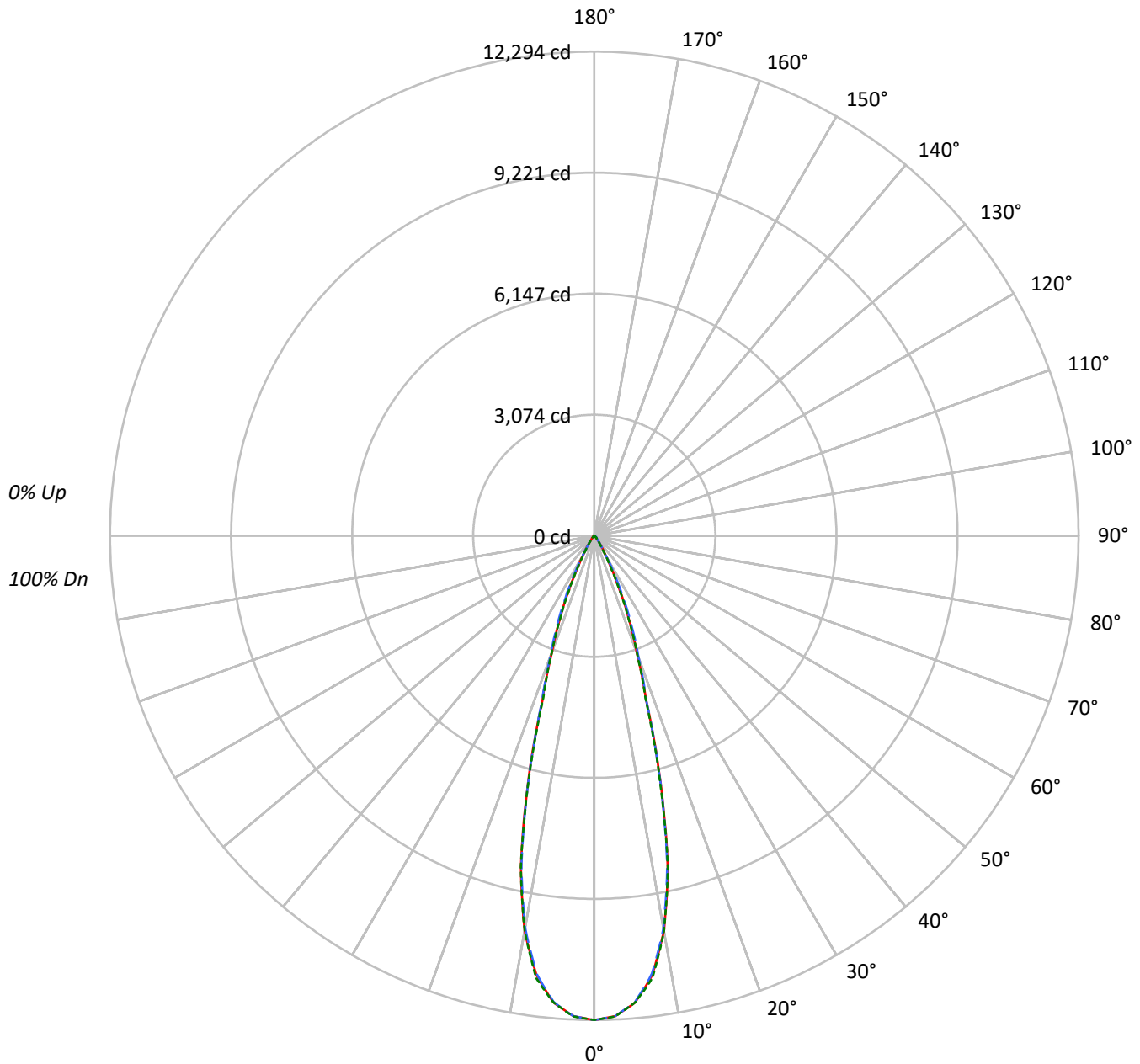
Input Watts (W): 47
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	940994	940994	940994
5°	913977	912909	914023
10°	791644	786064	791458
15°	516509	513736	511153
20°	256838	266474	256488
25°	129379	145890	126727
30°	51802	56442	45129
35°	24024	23015	19286
40°	10372	11521	9772
45°	7318	9082	7383
50°	2513	6609	2655
55°	1455	2736	1535
60°	1010	1194	1010
65°	652	652	652
70°	403	269	403
75°	0	177	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 9082 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1081.0	28.3
10°-20°	1741.0	45.5
20°-30°	752.3	19.7
30°-40°	171.5	4.5
40°-50°	58.9	1.5
50°-60°	14.4	0.4
60°-70°	3.7	0.1
70°-80°	0.4	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°	3574.4	93.5
0°-40°	3745.9	98.0
0°-60°	3819.1	99.9
0°-90°	3823.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3823.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12294	12294	12294	12294	12294	
5°	11895	11884	11881	11906	11896	1082
15°	6518	6440	6483	6462	6450	1745
25°	1532	1590	1727	1549	1500	733
35°	257	263	246	244	206	174
45°	68	84	84	84	68	48
55°	11	12	20	12	12	11
65°	4	4	4	4	4	4
75°	0	0	1	0	0	1
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°	12293.6	12293.6	12293.6	12293.6	12293.6
2.5°	12212.1	12203.6	12208.5	12214.5	12216.9
5°	11895.2	11883.7	11881.3	11906.1	11895.8
7.5°	11256.0	11239.7	11215.0	11271.1	11323.6
10°	10185.3	10167.2	10113.5	10140.0	10182.9
12.5°	8604.5	8546.0	8544.8	8629.3	8617.8
15°	6518.0	6439.5	6483.0	6461.9	6450.4
17.5°	4383.1	4353.0	4410.9	4393.4	4318.0
20°	3153.1	3160.9	3271.4	3215.8	3148.8
22.5°	2300.8	2329.2	2460.2	2317.1	2264.6
25°	1531.9	1589.8	1727.4	1549.4	1500.5
27.5°	942.2	968.7	1108.2	930.1	903.5
30°	586.1	572.8	638.6	548.0	510.6
32.5°	384.5	367.6	388.7	348.9	318.7
35°	257.1	262.6	246.3	244.4	206.4
37.5°	160.6	184.7	163.0	173.8	132.8
40°	103.8	134.0	115.3	127.4	97.8
42.5°	85.1	103.2	94.8	100.8	86.9
45°	67.6	83.9	83.9	83.9	68.2
47.5°	37.4	56.1	71.8	57.3	39.8
50°	21.1	28.4	55.5	29.6	22.3
52.5°	14.5	16.3	38.0	16.9	15.1
55°	10.9	11.5	20.5	12.1	11.5
57.5°	8.5	9.1	10.9	9.1	8.5
60°	6.6	6.6	7.8	7.2	6.6
62.5°	4.8	4.8	5.4	4.8	4.8
65°	3.6	3.6	3.6	3.6	3.6
67.5°	1.8	2.4	2.4	2.4	2.4
70°	1.8	1.2	1.2	1.2	1.8
72.5°	1.2	0.6	0.6	0.6	0.6
75°	0.0	0.0	0.6	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)