

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: P749109

Luminaire Tested: LD4D50D010-EU4DR3040509027-4LBSQW1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P749109
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-EU4DR3040509027-4LBSQW1B
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3483.4 lumens
Efficiency: N/A
Efficacy: 74.1 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

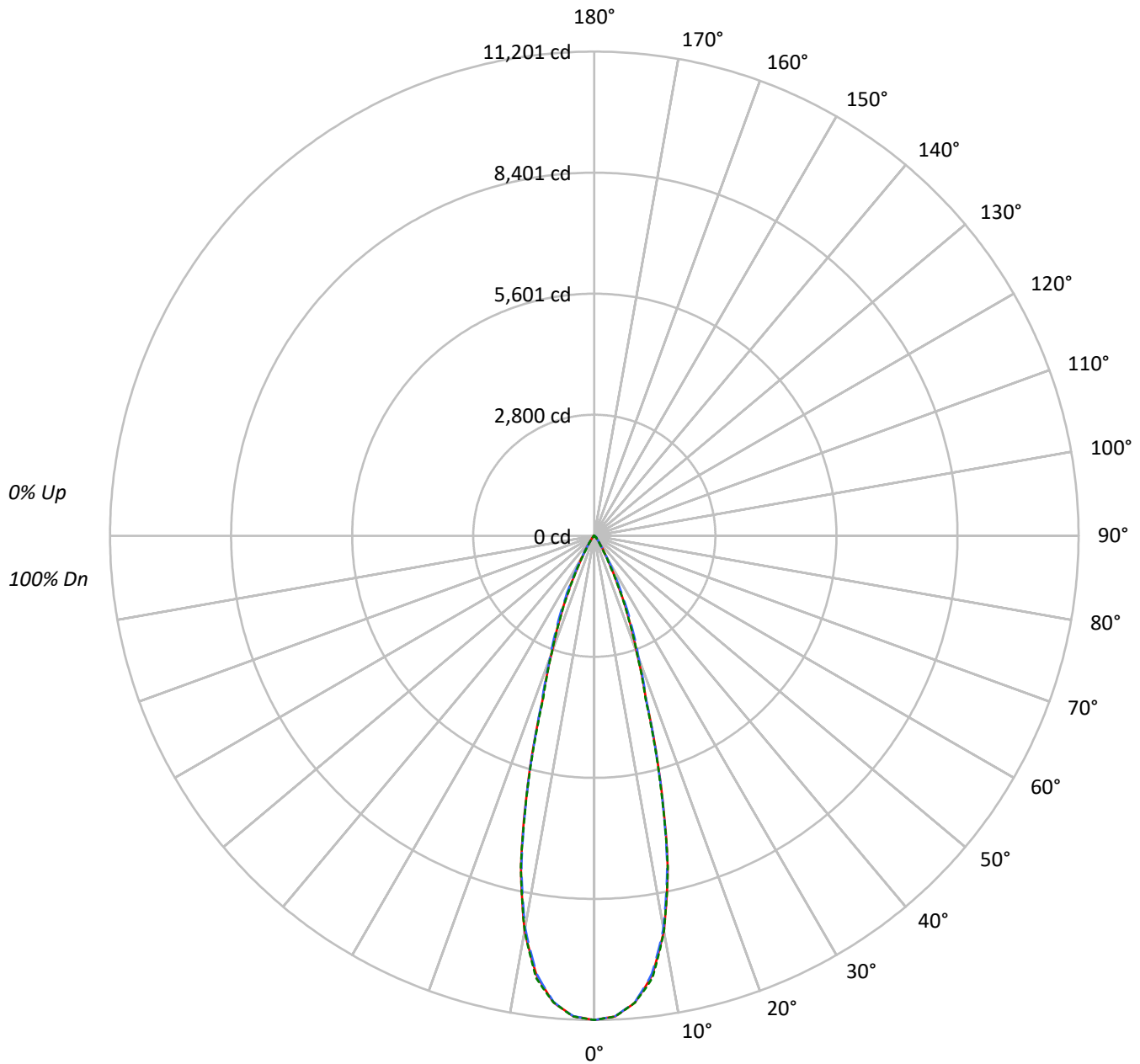
Input Watts (W): 47
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	87	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°	857378	857378	857378
5°	832762	831786	832800
10°	721296	716213	721125
15°	470612	468084	465730
20°	234014	242795	233697
25°	117876	132926	115460
30°	47197	51422	41117
35°	21894	20968	17576
40°	9452	10492	8903
45°	6668	8270	6722
50°	2286	6025	2417
55°	1321	2496	1388
60°	919	1087	919
65°	598	598	598
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: 8270 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	985.0	28.3
10°-20°	1586.3	45.5
20°-30°	685.5	19.7
30°-40°	156.2	4.5
40°-50°	53.6	1.5
50°-60°	13.1	0.4
60°-70°	3.4	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°	3256.8	93.5
0°-40°	3413.0	98.0
0°-60°	3479.7	99.9
0°-90°	3483.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3483.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11201	11201	11201	11201	11201	
5°	10838	10828	10826	10848	10839	986
15°	5939	5867	5907	5888	5877	1590
25°	1396	1448	1574	1412	1367	668
35°	234	239	224	223	188	159
45°	62	76	76	76	62	44
55°	10	10	19	11	10	10
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°	11201.2	11201.2	11201.2	11201.2	11201.2
2.5°	11126.9	11119.2	11123.6	11129.1	11131.3
5°	10838.2	10827.7	10825.5	10848.1	10838.7
7.5°	10255.8	10241.0	10218.4	10269.6	10317.4
10°	9280.2	9263.7	9214.8	9239.0	9278.0
12.5°	7839.9	7786.6	7785.5	7862.5	7852.0
15°	5938.8	5867.3	5906.9	5887.6	5877.2
17.5°	3993.7	3966.2	4019.0	4003.0	3934.3
20°	2872.9	2880.0	2980.7	2930.1	2869.0
22.5°	2096.4	2122.2	2241.6	2111.2	2063.4
25°	1395.7	1448.5	1573.9	1411.7	1367.1
27.5°	858.5	882.7	1009.7	847.5	823.3
30°	534.0	521.9	581.8	499.3	465.2
32.5°	350.3	334.9	354.2	317.9	290.4
35°	234.3	239.2	224.4	222.7	188.1
37.5°	146.3	168.3	148.5	158.4	121.0
40°	94.6	122.1	105.0	116.0	89.1
42.5°	77.5	94.0	86.3	91.8	79.2
45°	61.6	76.4	76.4	76.4	62.1
47.5°	34.1	51.1	65.4	52.2	36.3
50°	19.2	25.8	50.6	26.9	20.3
52.5°	13.2	14.8	34.6	15.4	13.7
55°	9.9	10.4	18.7	11.0	10.4
57.5°	7.7	8.2	9.9	8.2	7.7
60°	6.0	6.0	7.1	6.6	6.0
62.5°	4.4	4.4	4.9	4.4	4.4
65°	3.3	3.3	3.3	3.3	3.3
67.5°	1.6	2.2	2.2	2.2	2.2
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)