

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: P749135

Luminaire Tested: LD4D50D010-EU4DR3040509035-4LBSQW1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P749135
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-EU4DR3040509035-4LBSQW1B
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3626.6 lumens
Efficiency: N/A
Efficacy: 77.2 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

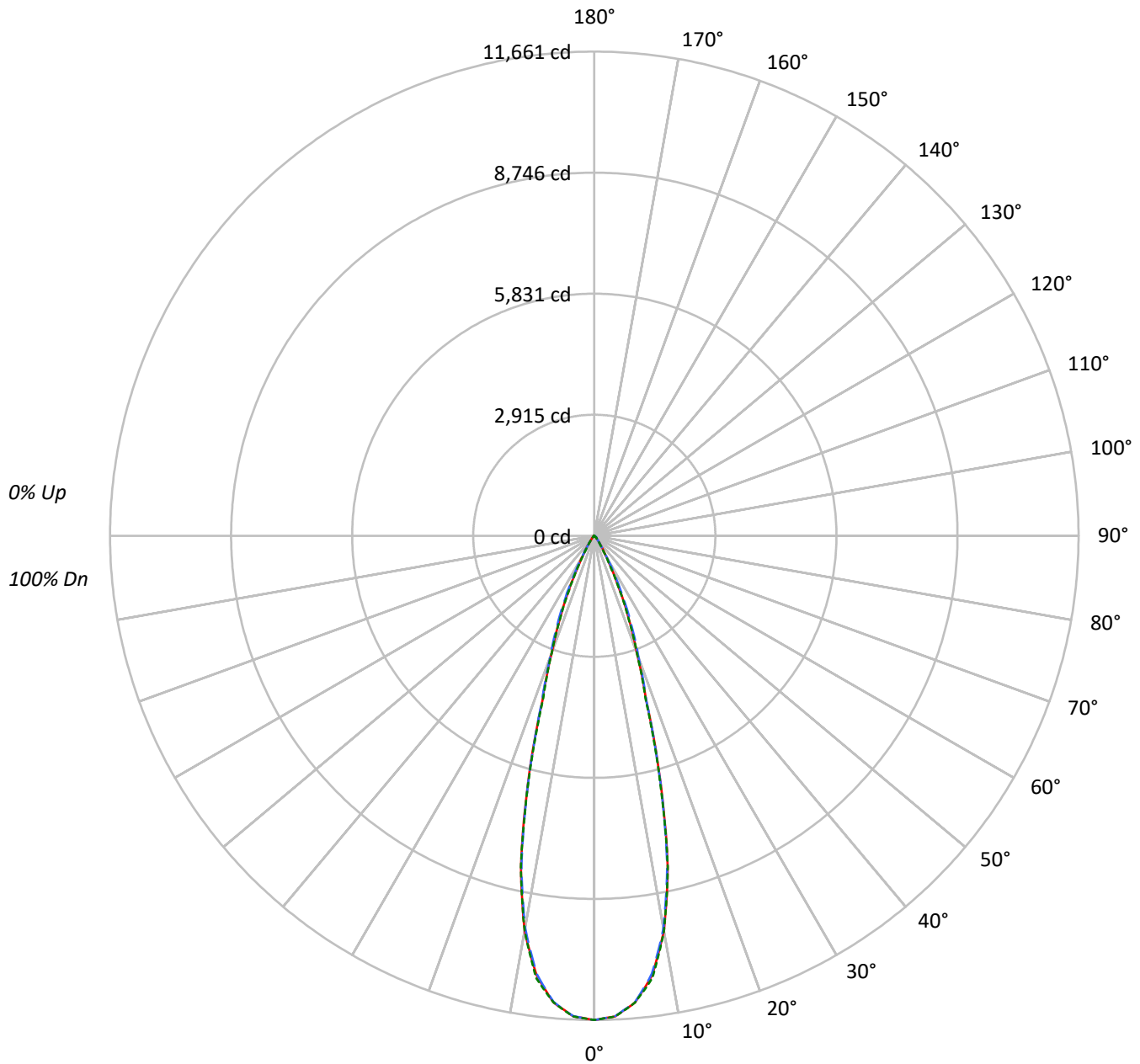
Input Watts (W): 47
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	892588	892588	892588
5°	866961	865955	867007
10°	750925	745624	750746
15°	489939	487308	484860
20°	243626	252765	243300
25°	122723	138390	120207
30°	49133	53535	42814
35°	22791	21828	18296
40°	9842	10931	9263
45°	6939	8617	7004
50°	2382	6276	2525
55°	1375	2602	1455
60°	964	1133	964
65°	616	616	616
70°	380	246	380
75°	0	177	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 8617 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1025.4	28.3
10°-20°	1651.5	45.5
20°-30°	713.6	19.7
30°-40°	162.7	4.5
40°-50°	55.8	1.5
50°-60°	13.7	0.4
60°-70°	3.5	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°	3390.5	93.5
0°-40°	3553.2	98.0
0°-60°	3622.7	99.9
0°-90°	3626.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3626.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11661	11661	11661	11661	11661	
5°	11283	11272	11270	11294	11284	1026
15°	6183	6108	6150	6130	6119	1656
25°	1453	1508	1639	1470	1423	696
35°	244	249	234	232	196	165
45°	64	80	80	80	65	46
55°	10	11	20	12	11	10
65°	3	3	3	3	3	3
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°	11661.2	11661.2	11661.2	11661.2	11661.2
2.5°	11583.9	11575.9	11580.5	11586.2	11588.5
5°	11283.3	11272.5	11270.2	11293.6	11283.9
7.5°	10677.0	10661.6	10638.1	10691.3	10741.2
10°	9661.4	9644.2	9593.2	9618.4	9659.1
12.5°	8161.9	8106.4	8105.2	8185.4	8174.5
15°	6182.7	6108.3	6149.5	6129.5	6118.6
17.5°	4157.7	4129.1	4184.0	4167.4	4095.8
20°	2990.9	2998.3	3103.1	3050.4	2986.9
22.5°	2182.5	2209.4	2333.6	2197.9	2148.1
25°	1453.1	1508.0	1638.6	1469.7	1423.3
27.5°	893.7	918.9	1051.2	882.3	857.1
30°	555.9	543.3	605.7	519.9	484.4
32.5°	364.7	348.7	368.7	330.9	302.3
35°	243.9	249.0	233.6	231.9	195.8
37.5°	152.3	175.2	154.6	164.9	126.0
40°	98.5	127.1	109.4	120.8	92.7
42.5°	80.7	97.9	89.9	95.6	82.4
45°	64.1	79.6	79.6	79.6	64.7
47.5°	35.5	53.2	68.1	54.4	37.8
50°	20.0	26.9	52.7	28.1	21.2
52.5°	13.7	15.5	36.1	16.0	14.3
55°	10.3	10.9	19.5	11.5	10.9
57.5°	8.0	8.6	10.3	8.6	8.0
60°	6.3	6.3	7.4	6.9	6.3
62.5°	4.6	4.6	5.2	4.6	4.6
65°	3.4	3.4	3.4	3.4	3.4
67.5°	1.7	2.3	2.3	2.3	2.3
70°	1.7	1.1	1.1	1.1	1.7
72.5°	1.1	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)