

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: P749096

Luminaire Tested: LD4D50D010-EU4DR3040509024-4LBSQW1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P749096
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-EU4DR3040509024-4LBSQW1B
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3075.2 lumens
Efficiency: N/A
Efficacy: 65.4 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

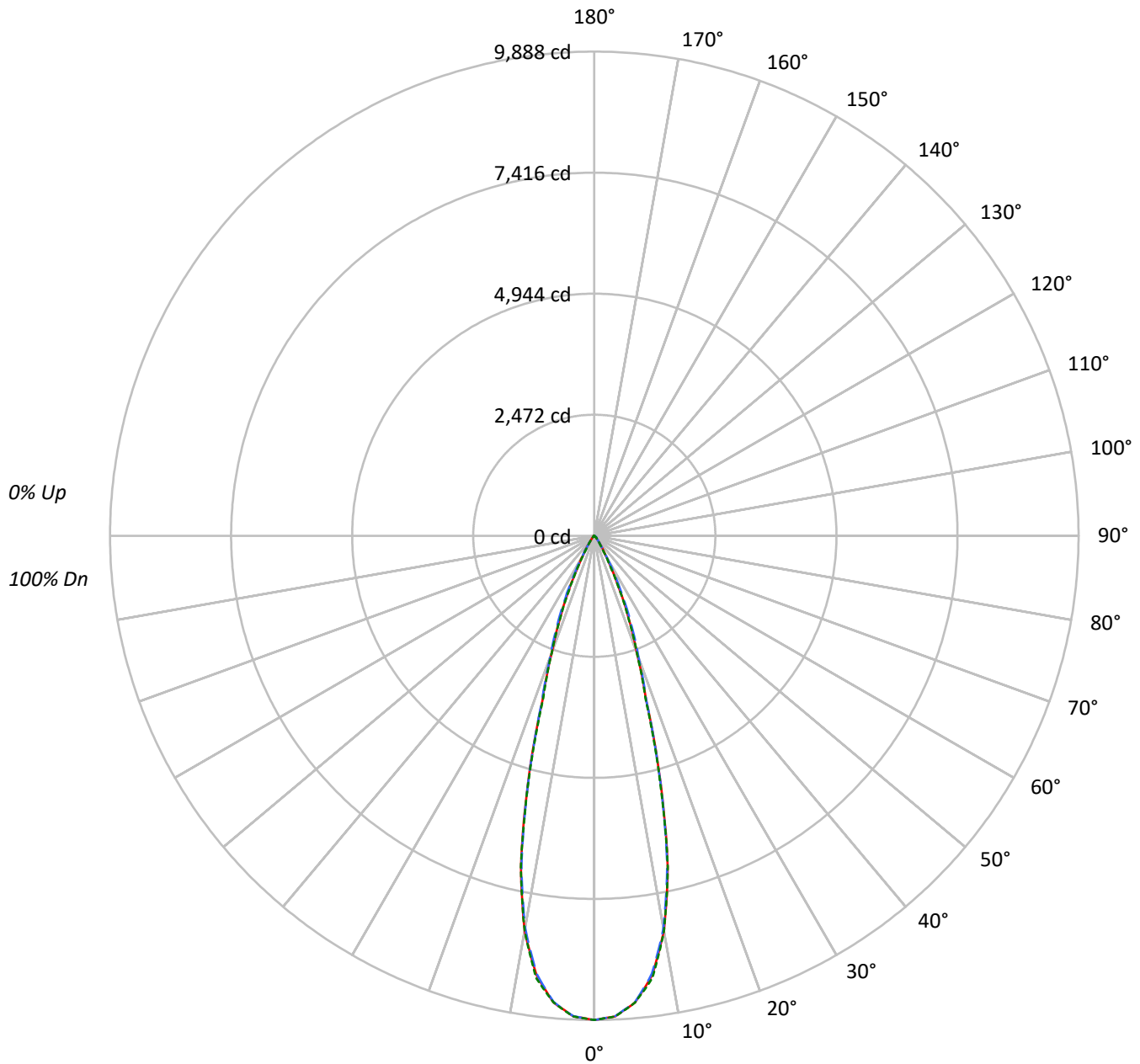
Input Watts (W): 47
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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°	756876	756876	756876
5°	735149	734289	735188
10°	636748	632263	636600
15°	415450	413216	411139
20°	206580	214335	206303
25°	104059	117344	101930
30°	41665	45394	36300
35°	19324	18511	15511
40°	8343	9263	7854
45°	5889	7307	5943
50°	2024	5323	2143
55°	1161	2202	1228
60°	811	964	811
65°	525	525	525
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: 7307 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	869.5	28.3
10°-20°	1400.4	45.5
20°-30°	605.1	19.7
30°-40°	137.9	4.5
40°-50°	47.4	1.5
50°-60°	11.6	0.4
60°-70°	3.0	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°	2875.0	93.5
0°-40°	3012.9	98.0
0°-60°	3071.9	99.9
0°-90°	3075.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3075.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9888	9888	9888	9888	9888	
5°	9568	9559	9557	9576	9568	870
15°	5243	5180	5214	5198	5188	1404
25°	1232	1279	1389	1246	1207	590
35°	207	211	198	197	166	140
45°	54	68	68	68	55	39
55°	9	9	16	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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9888.2	9888.2	9888.2	9888.2	9888.2
2.5°	9822.7	9815.9	9819.7	9824.6	9826.5
5°	9567.8	9558.6	9556.6	9576.5	9568.3
7.5°	9053.7	9040.6	9020.6	9065.8	9108.0
10°	8192.4	8177.9	8134.7	8156.0	8190.5
12.5°	6921.0	6873.9	6872.9	6940.9	6931.6
15°	5242.7	5179.6	5214.5	5197.5	5188.3
17.5°	3525.5	3501.3	3547.9	3533.8	3473.1
20°	2536.1	2542.4	2631.3	2586.6	2532.7
22.5°	1850.6	1873.5	1978.8	1863.7	1821.5
25°	1232.1	1278.7	1389.4	1246.2	1206.9
27.5°	757.8	779.2	891.3	748.1	726.8
30°	471.4	460.7	513.6	440.8	410.7
32.5°	309.2	295.7	312.6	280.6	256.3
35°	206.8	211.2	198.1	196.6	166.0
37.5°	129.1	148.6	131.1	139.8	106.8
40°	83.5	107.8	92.7	102.4	78.6
42.5°	68.5	83.0	76.2	81.1	69.9
45°	54.4	67.5	67.5	67.5	54.9
47.5°	30.1	45.1	57.8	46.1	32.0
50°	17.0	22.8	44.7	23.8	18.0
52.5°	11.7	13.1	30.6	13.6	12.1
55°	8.7	9.2	16.5	9.7	9.2
57.5°	6.8	7.3	8.7	7.3	6.8
60°	5.3	5.3	6.3	5.8	5.3
62.5°	3.9	3.9	4.4	3.9	3.9
65°	2.9	2.9	2.9	2.9	2.9
67.5°	1.5	1.9	1.9	1.9	1.9
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



Report Generated By 670245859 / DESKTOP-T8S5UU9





— 0°-180° - - 45°-225° - - - 90°-270°







(END OF REPORT)