

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: P749148

Luminaire Tested: LD4D50D010-EU4DR3040509040-4LBSQW1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P749148
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-EU4DR3040509040-4LBSQW1B
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3796.1 lumens
Efficiency: N/A
Efficacy: 80.8 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

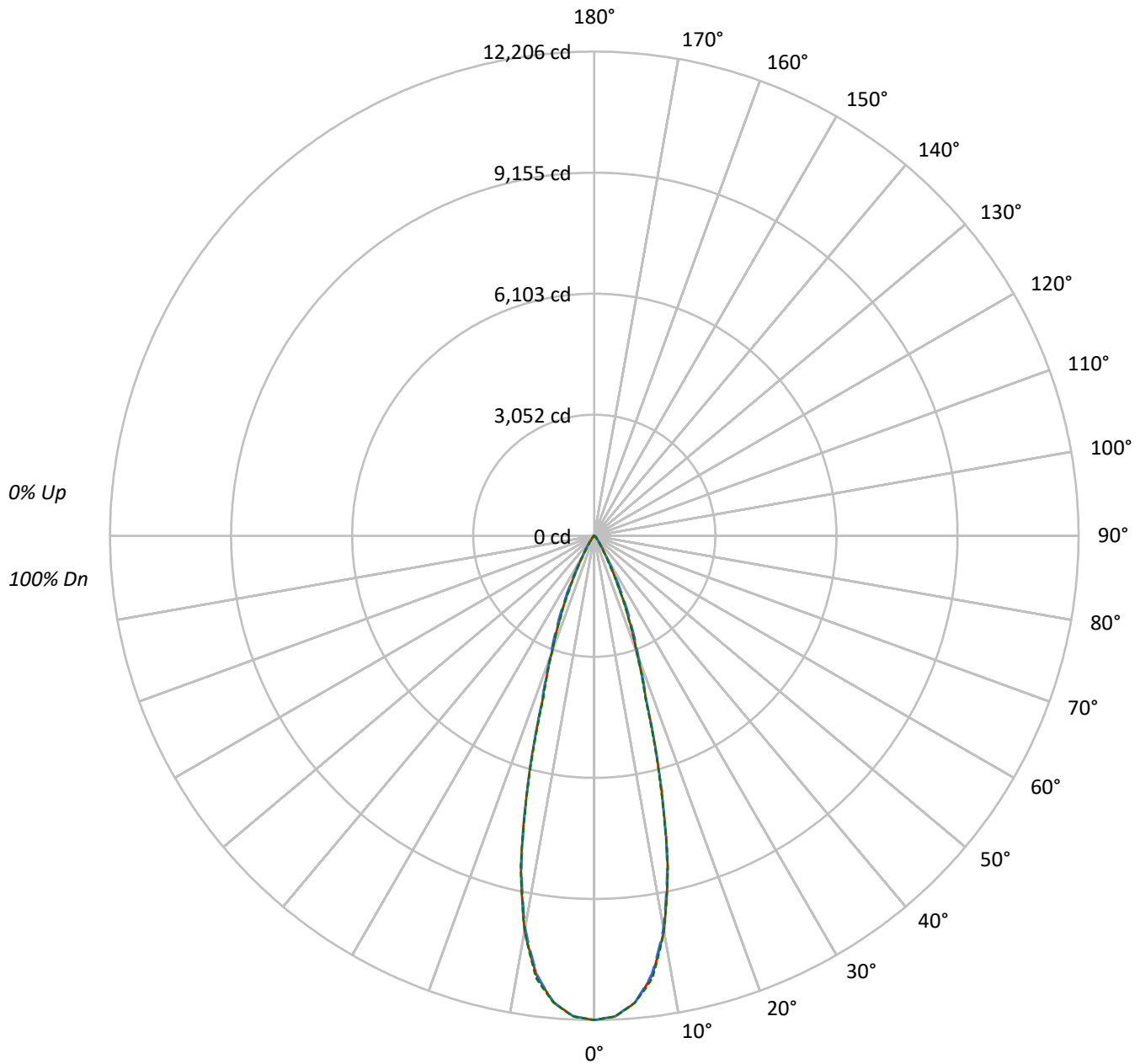
Input Watts (W): 47
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	934319	934319	934319
5°	907500	906439	907546
10°	786033	780483	785846
15°	512848	510091	507523
20°	255014	264585	254671
25°	128458	144859	125823
30°	51431	56045	44811
35°	23856	22847	19156
40°	10302	11441	9702
45°	7263	9017	7328
50°	2501	6561	2644
55°	1441	2722	1521
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: 9017 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1073.4	28.3
10°-20°	1728.7	45.5
20°-30°	747.0	19.7
30°-40°	170.3	4.5
40°-50°	58.5	1.5
50°-60°	14.3	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°	3549.0	93.5
0°-40°	3719.3	98.0
0°-60°	3792.0	99.9
0°-90°	3796.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3796.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12206	12206	12206	12206	12206	
5°	11811	11800	11797	11822	11812	1074
15°	6472	6394	6437	6416	6405	1733
25°	1521	1578	1715	1538	1490	728
35°	255	261	244	243	205	173
45°	67	83	83	83	68	48
55°	11	11	20	12	11	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°	12206.4	12206.4	12206.4	12206.4	12206.4
2.5°	12125.5	12117.1	12121.9	12127.9	12130.3
5°	11810.9	11799.5	11797.1	11821.6	11811.5
7.5°	11176.2	11160.0	11135.4	11191.2	11243.3
10°	10113.1	10095.1	10041.7	10068.1	10110.7
12.5°	8543.5	8485.4	8484.2	8568.1	8556.7
15°	6471.8	6393.8	6437.0	6416.0	6404.6
17.5°	4352.1	4322.1	4379.6	4362.2	4287.3
20°	3130.7	3138.5	3248.2	3193.0	3126.5
22.5°	2284.5	2312.7	2442.7	2300.7	2248.5
25°	1521.0	1578.5	1715.2	1538.4	1489.8
27.5°	935.5	961.9	1100.3	923.5	897.1
30°	581.9	568.7	634.1	544.2	507.0
32.5°	381.7	365.0	385.9	346.4	316.4
35°	255.3	260.7	244.5	242.7	205.0
37.5°	159.4	183.4	161.8	172.6	131.8
40°	103.1	133.0	114.5	126.5	97.1
42.5°	84.5	102.5	94.1	100.1	86.3
45°	67.1	83.3	83.3	83.3	67.7
47.5°	37.2	55.7	71.3	56.9	39.6
50°	21.0	28.2	55.1	29.4	22.2
52.5°	14.4	16.2	37.8	16.8	15.0
55°	10.8	11.4	20.4	12.0	11.4
57.5°	8.4	9.0	10.8	9.0	8.4
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



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Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report





— 0°-180° - - 45°-225° - - - 90°-270°







(END OF REPORT)