

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: P749152

Luminaire Tested: LD4D50D010-EU4DR3040509050-4LBCSSQMW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P749152
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-EU4DR3040509050-4LBCSSQMW
Description: 4 INCH SQAURE SHALLOW CAST MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

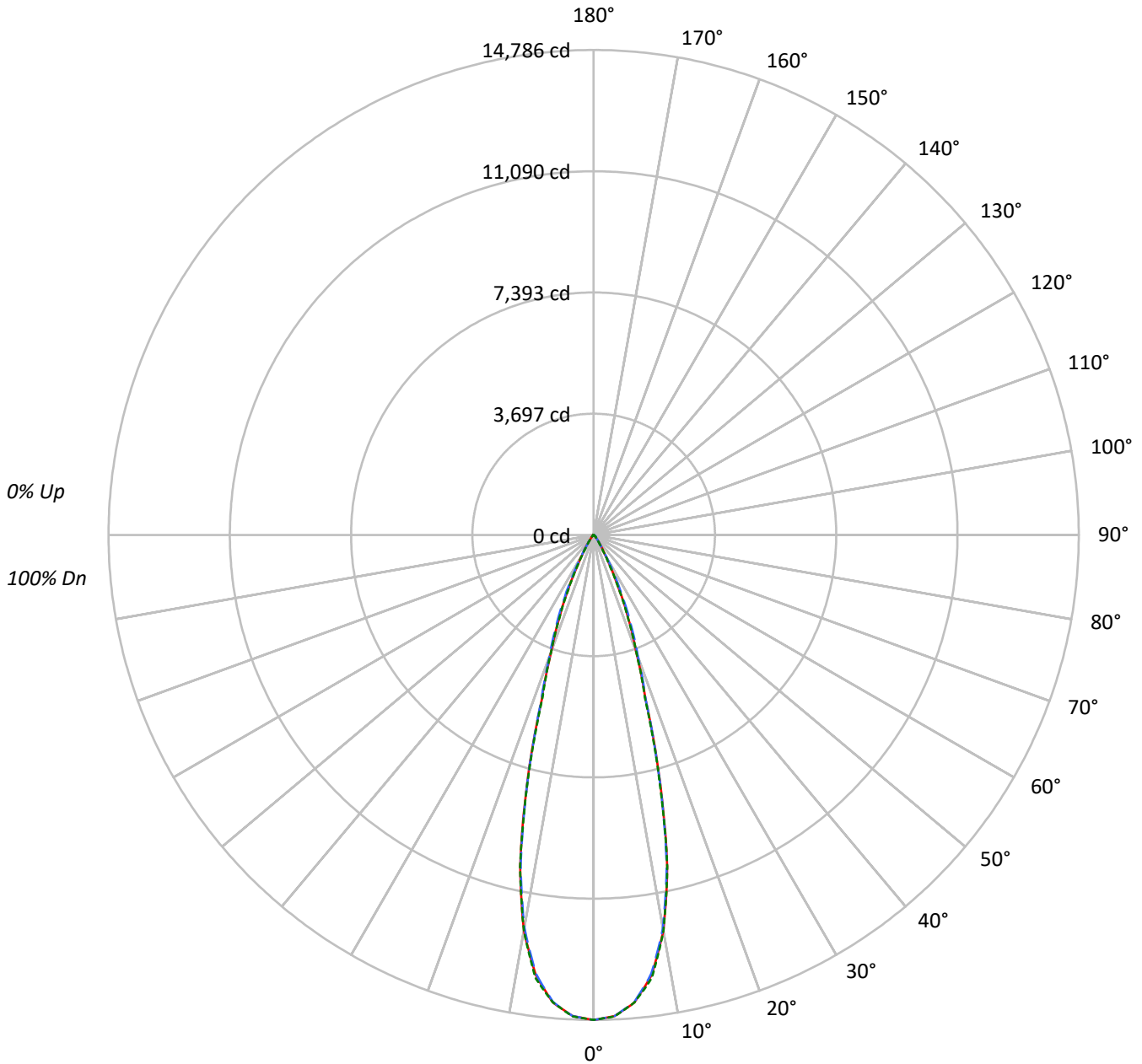
Lumens per Lamp: N/A
Luminaire Lumens: 4598.3 lumens
Efficiency: N/A
Efficacy: 97.8 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

Input Watts (W): 47
Input Voltage (V): NR
Input Current (A_{in}): 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									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0													
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100						100													
1	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96						96													
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92						92													
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89						89													
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85						85													
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82						82													
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79						79													
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77						77													
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74						74													
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72						72													
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69						69													

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1131755	1131755	1131755
5°	1099266	1097983	1099320
10°	952129	945414	951904
15°	621214	617878	614771
20°	308905	320496	308489
25°	155602	175466	152418
30°	62302	67879	54277
35°	28892	27678	23202
40°	12480	13859	11751
45°	8801	10922	8876
50°	3025	7955	3203
55°	1748	3296	1842
60°	1225	1439	1225
65°	797	797	797
70°	492	336	492
75°	0	207	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 10922 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1300.2	28.3
10°-20°	2094.0	45.5
20°-30°	904.9	19.7
30°-40°	206.2	4.5
40°-50°	70.8	1.5
50°-60°	17.3	0.4
60°-70°	4.5	0.1
70°-80°	0.5	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°	4299.0	93.5
0°-40°	4505.2	98.0
0°-60°	4593.4	99.9
0°-90°	4598.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4598.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	14786	14786	14786	14786	14786	
5°	14307	14293	14290	14320	14307	1301
15°	7839	7745	7797	7772	7758	2099
25°	1842	1912	2078	1864	1805	882
35°	309	316	296	294	248	210
45°	81	101	101	101	82	58
55°	13	14	25	14	14	13
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°	14785.8	14785.8	14785.8	14785.8	14785.8
2.5°	14687.8	14677.6	14683.4	14690.7	14693.6
5°	14306.7	14292.9	14290.0	14319.7	14307.4
7.5°	13537.9	13518.3	13488.6	13556.1	13619.2
10°	12250.1	12228.3	12163.7	12195.7	12247.2
12.5°	10348.9	10278.5	10277.0	10378.7	10364.9
15°	7839.3	7745.0	7797.2	7771.8	7758.0
17.5°	5271.7	5235.4	5305.1	5284.1	5193.3
20°	3792.3	3801.7	3934.6	3867.8	3787.2
22.5°	2767.3	2801.4	2958.9	2786.9	2723.7
25°	1842.4	1912.1	2077.6	1863.5	1804.7
27.5°	1133.2	1165.1	1332.8	1118.7	1086.7
30°	704.9	688.9	768.0	659.1	614.1
32.5°	462.4	442.1	467.5	419.6	383.3
35°	309.2	315.8	296.2	294.0	248.3
37.5°	193.1	222.1	196.0	209.1	159.7
40°	124.9	161.2	138.7	153.2	117.6
42.5°	102.4	124.1	114.0	121.2	104.5
45°	81.3	100.9	100.9	100.9	82.0
47.5°	45.0	67.5	86.4	69.0	47.9
50°	25.4	34.1	66.8	35.6	26.9
52.5°	17.4	19.6	45.7	20.3	18.1
55°	13.1	13.8	24.7	14.5	13.8
57.5°	10.2	10.9	13.1	10.9	10.2
60°	8.0	8.0	9.4	8.7	8.0
62.5°	5.8	5.8	6.5	5.8	5.8
65°	4.4	4.4	4.4	4.4	4.4
67.5°	2.2	2.9	2.9	2.9	2.9
70°	2.2	1.5	1.5	1.5	2.2
72.5°	1.5	0.7	0.7	0.7	0.7
75°	0.0	0.0	0.7	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

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

Scaled Data Report



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Scaled Data Report





— 0°-180° - - 45°-225° - - - - 90°-270°

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