

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: P749108

Luminaire Tested: LD4D50D010-EU4DR3040509027-4LBS1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P749108
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-EU4DR3040509027-4LBS1MW
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4589.9 lumens
Efficiency: N/A
Efficacy: 97.7 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

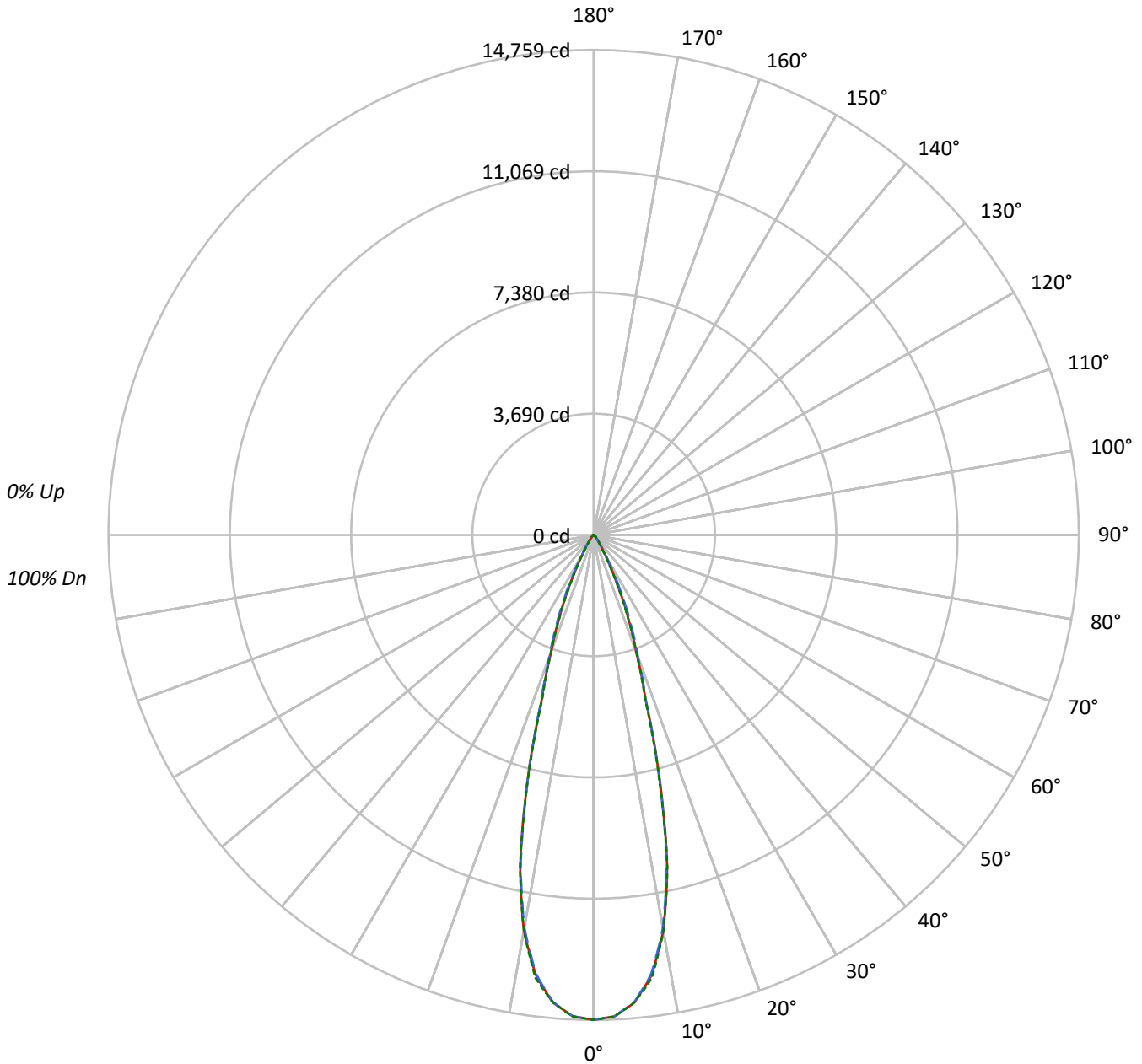
Input Watts (W): 47
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



Downlight

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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					70					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								
1	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96								
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92								
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89								
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85								
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82								
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79								
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77								
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74								
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72								
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1129696	1129696	1129696
5°	1097261	1095986	1097322
10°	950396	943696	950171
15°	620089	616761	613654
20°	308343	319909	307927
25°	155324	175145	152140
30°	62187	67756	54180
35°	28846	27622	23155
40°	12450	13829	11731
45°	8790	10901	8866
50°	3025	7943	3191
55°	1735	3283	1842
60°	1225	1439	1225
65°	779	779	779
70°	492	313	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: 10901 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1297.8	28.3
10°-20°	2090.2	45.5
20°-30°	903.2	19.7
30°-40°	205.9	4.5
40°-50°	70.7	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°	4291.2	93.5
0°-40°	4497.0	98.0
0°-60°	4585.0	99.9
0°-90°	4589.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4589.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	14759	14759	14759	14759	14759	
5°	14281	14267	14264	14294	14281	1299
15°	7825	7731	7783	7758	7744	2095
25°	1839	1909	2074	1860	1801	880
35°	309	315	296	294	248	209
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	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	14758.9	14758.9	14758.9	14758.9	14758.9
2.5°	14661.1	14650.9	14656.7	14664.0	14666.9
5°	14280.6	14266.9	14264.0	14293.7	14281.4
7.5°	13513.3	13493.7	13464.0	13531.4	13594.4
10°	12227.8	12206.1	12141.6	12173.5	12224.9
12.5°	10330.1	10259.8	10258.3	10359.8	10346.0
15°	7825.1	7730.9	7783.1	7757.7	7743.9
17.5°	5262.1	5225.9	5295.5	5274.4	5183.9
20°	3785.4	3794.8	3927.4	3860.7	3780.3
22.5°	2762.2	2796.3	2953.5	2781.8	2718.7
25°	1839.1	1908.6	2073.8	1860.1	1801.4
27.5°	1131.1	1163.0	1330.4	1116.6	1084.7
30°	703.6	687.7	766.6	657.9	613.0
32.5°	461.6	441.3	466.6	418.8	382.6
35°	308.7	315.2	295.6	293.5	247.8
37.5°	192.7	221.7	195.6	208.7	159.4
40°	124.6	160.9	138.4	152.9	117.4
42.5°	102.2	123.9	113.8	121.0	104.3
45°	81.2	100.7	100.7	100.7	81.9
47.5°	44.9	67.4	86.2	68.8	47.8
50°	25.4	34.1	66.7	35.5	26.8
52.5°	17.4	19.6	45.7	20.3	18.1
55°	13.0	13.8	24.6	14.5	13.8
57.5°	10.1	10.9	13.0	10.9	10.1
60°	8.0	8.0	9.4	8.7	8.0
62.5°	5.8	5.8	6.5	5.8	5.8
65°	4.3	4.3	4.3	4.3	4.3
67.5°	2.2	2.9	2.9	2.9	2.9
70°	2.2	1.4	1.4	1.4	2.2
72.5°	1.4	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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