

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: P749901

Luminaire Tested: LD4D55D010-EU4DR3055659030-4LBS1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P749901
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: LD4D55D010-EU4DR3055659030-4LBS1MW
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5346.2 lumens
Efficiency: N/A
Efficacy: 91.9 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

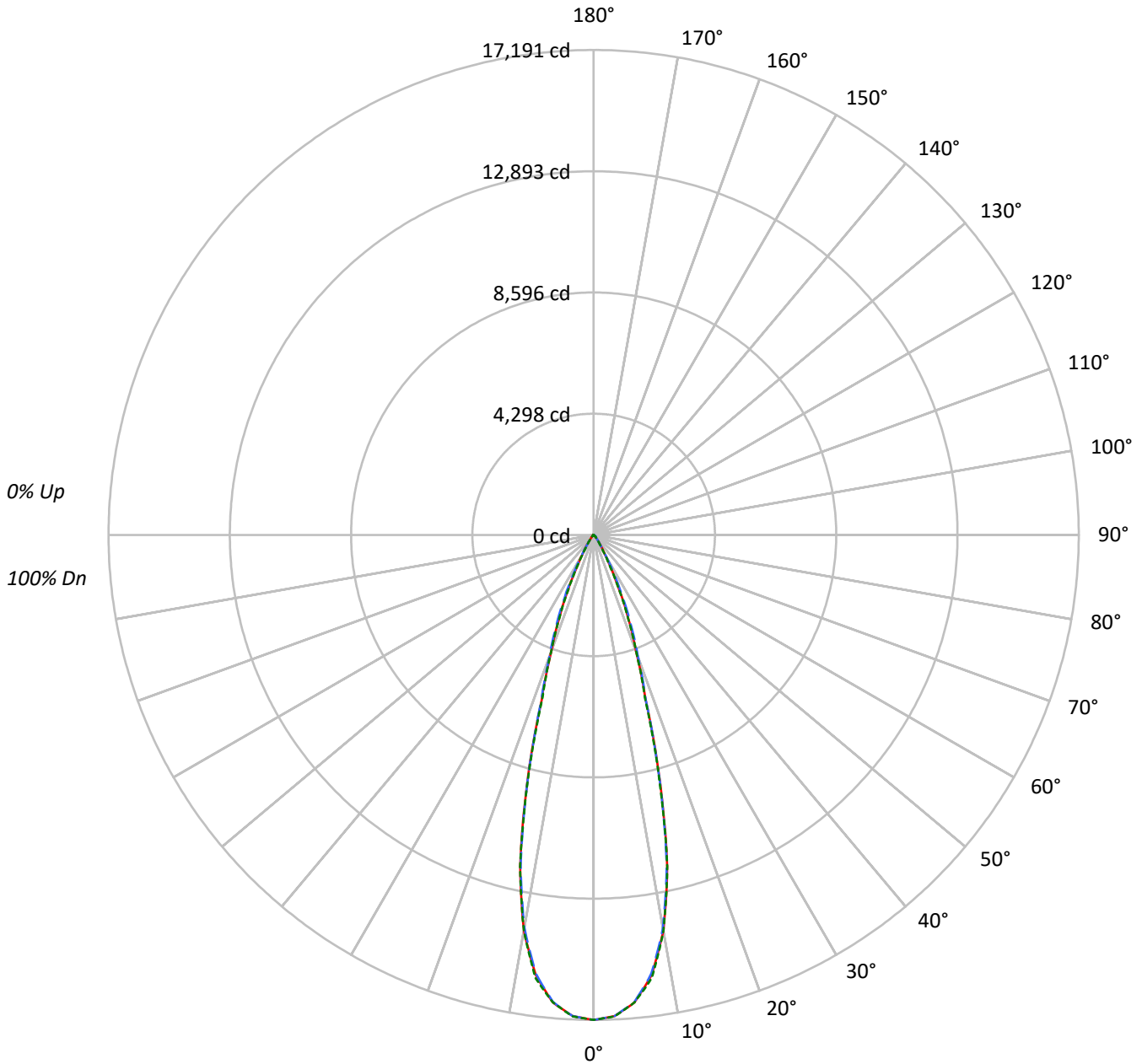
Input Watts (W): 58.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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									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	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°	1315835	1315835	1315835
5°	1278056	1276565	1278125
10°	1106995	1099183	1106730
15°	722257	718375	714769
20°	359147	372619	358666
25°	180914	204004	177206
30°	72431	78928	63107
35°	33592	32182	26967
40°	14508	16107	13659
45°	10230	12698	10327
50°	3513	9241	3715
55°	2028	3830	2135
60°	1424	1684	1424
65°	924	924	924
70°	559	380	559
75°	0	237	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 12698 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1511.7	28.3
10°-20°	2434.5	45.5
20°-30°	1052.0	19.7
30°-40°	239.8	4.5
40°-50°	82.3	1.5
50°-60°	20.1	0.4
60°-70°	5.2	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°	4998.2	93.5
0°-40°	5238.0	98.0
0°-60°	5340.4	99.9
0°-90°	5346.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5346.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	17191	17191	17191	17191	17191	
5°	16634	16618	16614	16649	16634	1513
15°	9114	9005	9065	9036	9020	2441
25°	2142	2223	2416	2167	2098	1025
35°	360	367	344	342	289	244
45°	94	117	117	117	95	67
55°	15	16	29	17	16	15
65°	5	5	5	5	5	5
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°	17190.7	17190.7	17190.7	17190.7	17190.7
2.5°	17076.7	17064.9	17071.7	17080.1	17083.5
5°	16633.6	16617.6	16614.2	16648.8	16634.5
7.5°	15739.8	15717.0	15682.4	15760.9	15834.3
10°	14242.6	14217.2	14142.1	14179.3	14239.2
12.5°	12032.1	11950.2	11948.6	12066.7	12050.7
15°	9114.4	9004.7	9065.4	9035.9	9019.9
17.5°	6129.2	6087.0	6168.0	6143.5	6038.0
20°	4409.1	4420.0	4574.5	4496.8	4403.2
22.5°	3217.3	3257.0	3440.2	3240.1	3166.7
25°	2142.1	2223.1	2415.5	2166.6	2098.2
27.5°	1317.5	1354.6	1549.6	1300.6	1263.5
30°	819.5	801.0	893.0	766.4	714.0
32.5°	537.6	514.0	543.5	487.8	445.6
35°	359.5	367.1	344.4	341.8	288.6
37.5°	224.5	258.3	227.9	243.1	185.7
40°	145.2	187.4	161.2	178.1	136.7
42.5°	119.0	144.3	132.5	140.9	121.5
45°	94.5	117.3	117.3	117.3	95.4
47.5°	52.3	78.5	100.4	80.2	55.7
50°	29.5	39.7	77.6	41.4	31.2
52.5°	20.3	22.8	53.2	23.6	21.1
55°	15.2	16.0	28.7	16.9	16.0
57.5°	11.8	12.7	15.2	12.7	11.8
60°	9.3	9.3	11.0	10.1	9.3
62.5°	6.8	6.8	7.6	6.8	6.8
65°	5.1	5.1	5.1	5.1	5.1
67.5°	2.5	3.4	3.4	3.4	3.4
70°	2.5	1.7	1.7	1.7	2.5
72.5°	1.7	0.8	0.8	0.8	0.8
75°	0.0	0.0	0.8	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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