

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: P749888

Luminaire Tested: LD4D55D010-EU4DR3055659027-4LBS1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P749888
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-EU4DR3055659027-4LBS1MW
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: 5189.4 lumens
Efficiency: N/A
Efficacy: 89.2 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

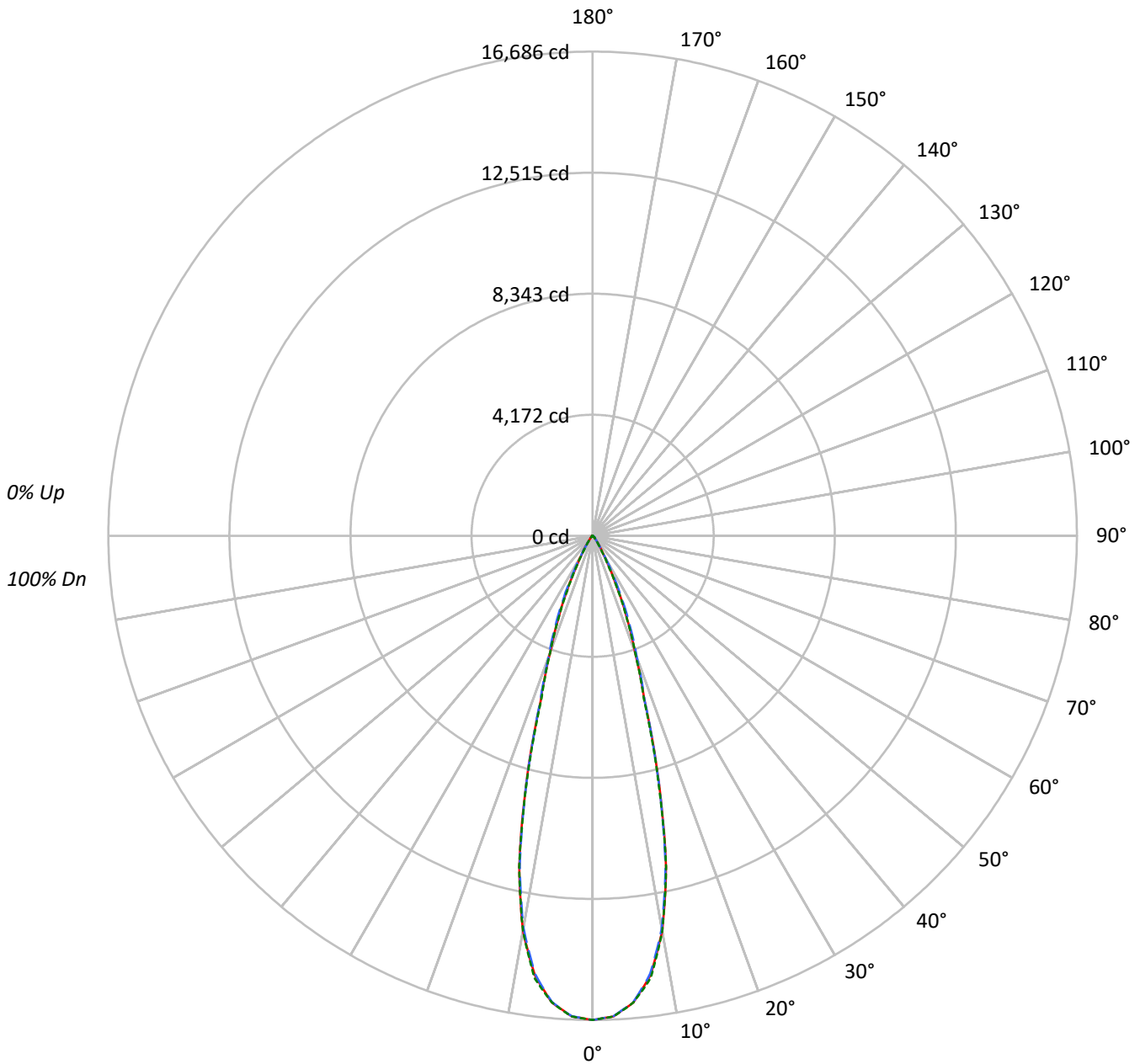


Downlight

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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°	1277234	1277234	1277234
5°	1240567	1239123	1240629
10°	1074522	1066943	1074265
15°	701068	697304	693801
20°	348606	361688	348142
25°	175602	198025	172004
30°	70310	76612	61259
35°	32611	31238	26183
40°	14079	15638	13259
45°	9937	12330	10024
50°	3418	8979	3608
55°	1962	3723	2082
60°	1378	1638	1378
65°	887	887	887
70°	559	358	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: 12330 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1467.3	28.3
10°-20°	2363.1	45.5
20°-30°	1021.2	19.7
30°-40°	232.8	4.5
40°-50°	79.9	1.5
50°-60°	19.5	0.4
60°-70°	5.1	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°	4851.6	93.5
0°-40°	5084.4	98.0
0°-60°	5183.8	99.9
0°-90°	5189.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5189.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	16686	16686	16686	16686	16686	
5°	16146	16130	16127	16160	16146	1469
15°	8847	8740	8800	8771	8755	2369
25°	2079	2158	2345	2103	2037	995
35°	349	356	334	332	280	237
45°	92	114	114	114	93	65
55°	15	16	28	16	16	14
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°	16686.4	16686.4	16686.4	16686.4	16686.4
2.5°	16575.8	16564.3	16570.9	16579.1	16582.4
5°	16145.7	16130.1	16126.9	16160.4	16146.5
7.5°	15278.1	15256.0	15222.4	15298.6	15369.9
10°	13824.8	13800.2	13727.3	13763.3	13821.5
12.5°	11679.2	11599.7	11598.1	11712.8	11697.2
15°	8847.0	8740.5	8799.5	8770.8	8755.3
17.5°	5949.4	5908.4	5987.0	5963.3	5860.9
20°	4279.7	4290.4	4440.3	4364.9	4274.0
22.5°	3123.0	3161.5	3339.2	3145.1	3073.8
25°	2079.2	2157.9	2344.7	2103.0	2036.6
27.5°	1278.8	1314.9	1504.1	1262.5	1226.4
30°	795.5	777.5	866.8	743.9	693.1
32.5°	521.9	498.9	527.6	473.5	432.6
35°	349.0	356.4	334.3	331.8	280.2
37.5°	217.9	250.7	221.2	235.9	180.2
40°	140.9	181.9	156.5	172.9	132.7
42.5°	115.5	140.1	128.6	136.8	118.0
45°	91.8	113.9	113.9	113.9	92.6
47.5°	50.8	76.2	97.5	77.8	54.1
50°	28.7	38.5	75.4	40.1	30.3
52.5°	19.7	22.1	51.6	22.9	20.5
55°	14.7	15.6	27.9	16.4	15.6
57.5°	11.5	12.3	14.7	12.3	11.5
60°	9.0	9.0	10.7	9.8	9.0
62.5°	6.6	6.6	7.4	6.6	6.6
65°	4.9	4.9	4.9	4.9	4.9
67.5°	2.5	3.3	3.3	3.3	3.3
70°	2.5	1.6	1.6	1.6	2.5
72.5°	1.6	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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