

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: P749914

Luminaire Tested: LD4D55D010-EU4DR3055659035-4LBS1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P749914
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-EU4DR3055659035-4LBS1MW
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5402.5 lumens
Efficiency: N/A
Efficacy: 92.8 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

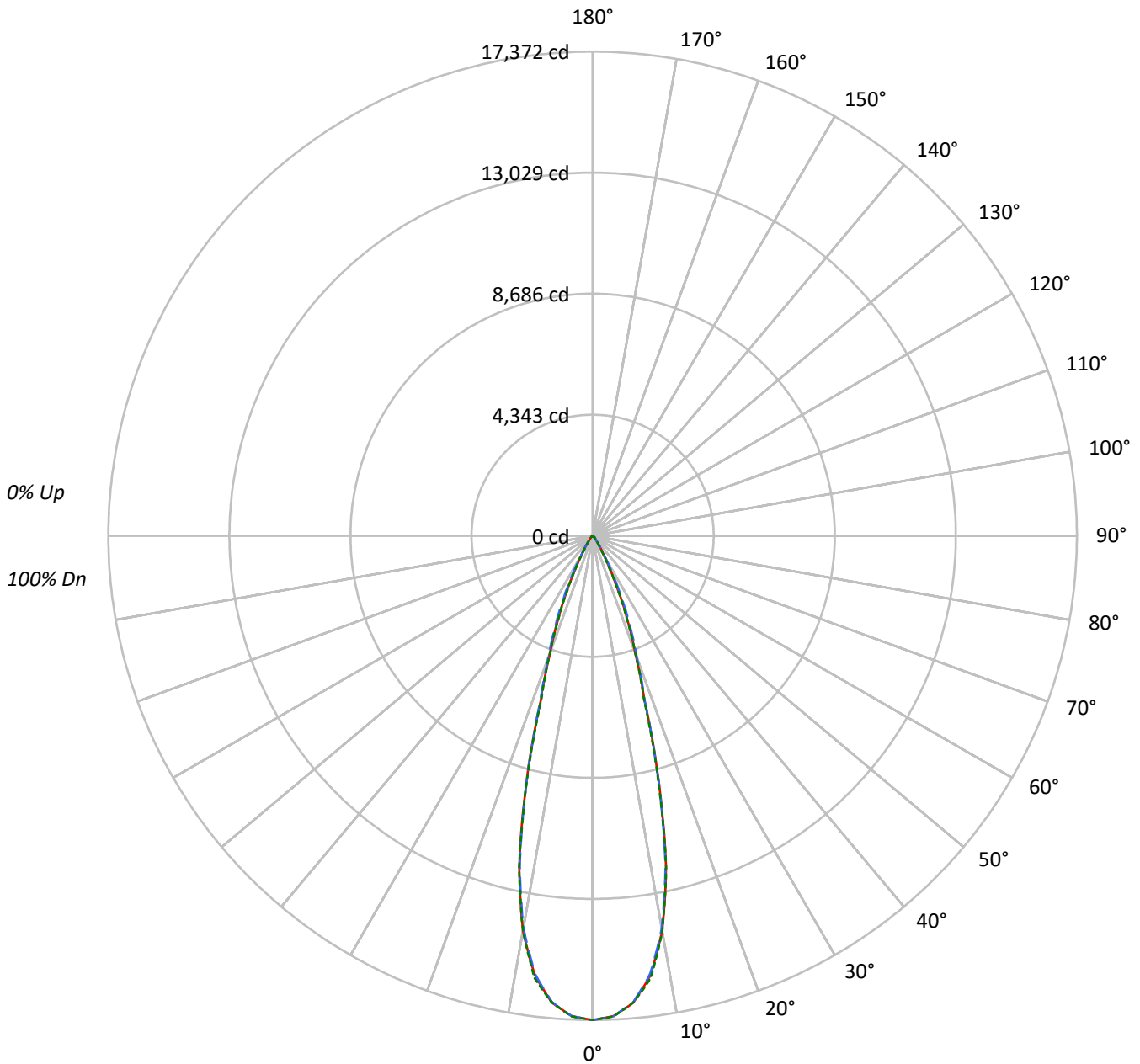
Input Watts (W): 58.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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°	1329689	1329689	1329689
5°	1291517	1290011	1291586
10°	1118653	1110764	1118389
15°	729865	725942	722297
20°	362926	376546	362437
25°	182814	206158	179073
30°	73200	79758	63770
35°	33948	32518	27257
40°	14658	16277	13809
45°	10338	12838	10435
50°	3561	9348	3763
55°	2055	3870	2162
60°	1439	1699	1439
65°	924	924	924
70°	582	380	582
75°	0	266	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 12838 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1527.6	28.3
10°-20°	2460.2	45.5
20°-30°	1063.1	19.7
30°-40°	242.3	4.5
40°-50°	83.2	1.5
50°-60°	20.3	0.4
60°-70°	5.3	0.1
70°-80°	0.6	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°	5050.9	93.5
0°-40°	5293.2	98.0
0°-60°	5396.7	99.9
0°-90°	5402.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5402.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	17372	17372	17372	17372	17372	
5°	16809	16793	16789	16824	16810	1529
15°	9210	9100	9161	9131	9115	2466
25°	2165	2246	2441	2189	2120	1036
35°	363	371	348	345	292	246
45°	96	119	119	119	96	68
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°	17371.7	17371.7	17371.7	17371.7	17371.7
2.5°	17256.6	17244.6	17251.5	17260.0	17263.4
5°	16808.8	16792.6	16789.2	16824.2	16809.7
7.5°	15905.6	15882.6	15847.6	15926.9	16001.1
10°	14392.6	14367.0	14291.1	14328.6	14389.2
12.5°	12158.8	12076.1	12074.4	12193.8	12177.6
15°	9210.4	9099.5	9160.9	9131.1	9114.9
17.5°	6193.7	6151.1	6232.9	6208.2	6101.6
20°	4455.5	4466.6	4622.7	4544.2	4449.5
22.5°	3251.2	3291.3	3476.4	3274.3	3200.1
25°	2164.6	2246.5	2441.0	2189.4	2120.3
27.5°	1331.4	1368.9	1565.9	1314.3	1276.8
30°	828.2	809.4	902.4	774.4	721.5
32.5°	543.3	519.4	549.3	493.0	450.3
35°	363.3	371.0	348.0	345.4	291.7
37.5°	226.9	261.0	230.3	245.6	187.6
40°	146.7	189.3	162.9	180.0	138.2
42.5°	120.3	145.8	133.9	142.4	122.8
45°	95.5	118.6	118.6	118.6	96.4
47.5°	52.9	79.3	101.5	81.0	56.3
50°	29.9	40.1	78.5	41.8	31.6
52.5°	20.5	23.0	53.7	23.9	21.3
55°	15.4	16.2	29.0	17.1	16.2
57.5°	11.9	12.8	15.4	12.8	11.9
60°	9.4	9.4	11.1	10.2	9.4
62.5°	6.8	6.8	7.7	6.8	6.8
65°	5.1	5.1	5.1	5.1	5.1
67.5°	2.6	3.4	3.4	3.4	3.4
70°	2.6	1.7	1.7	1.7	2.6
72.5°	1.7	0.9	0.9	0.9	0.9
75°	0.0	0.0	0.9	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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