

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: P749927

Luminaire Tested: LD4D55D010-EU4DR3055659040-4LBS1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P749927
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-EU4DR3055659040-4LBS1MW
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5655.1 lumens
Efficiency: N/A
Efficacy: 97.2 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

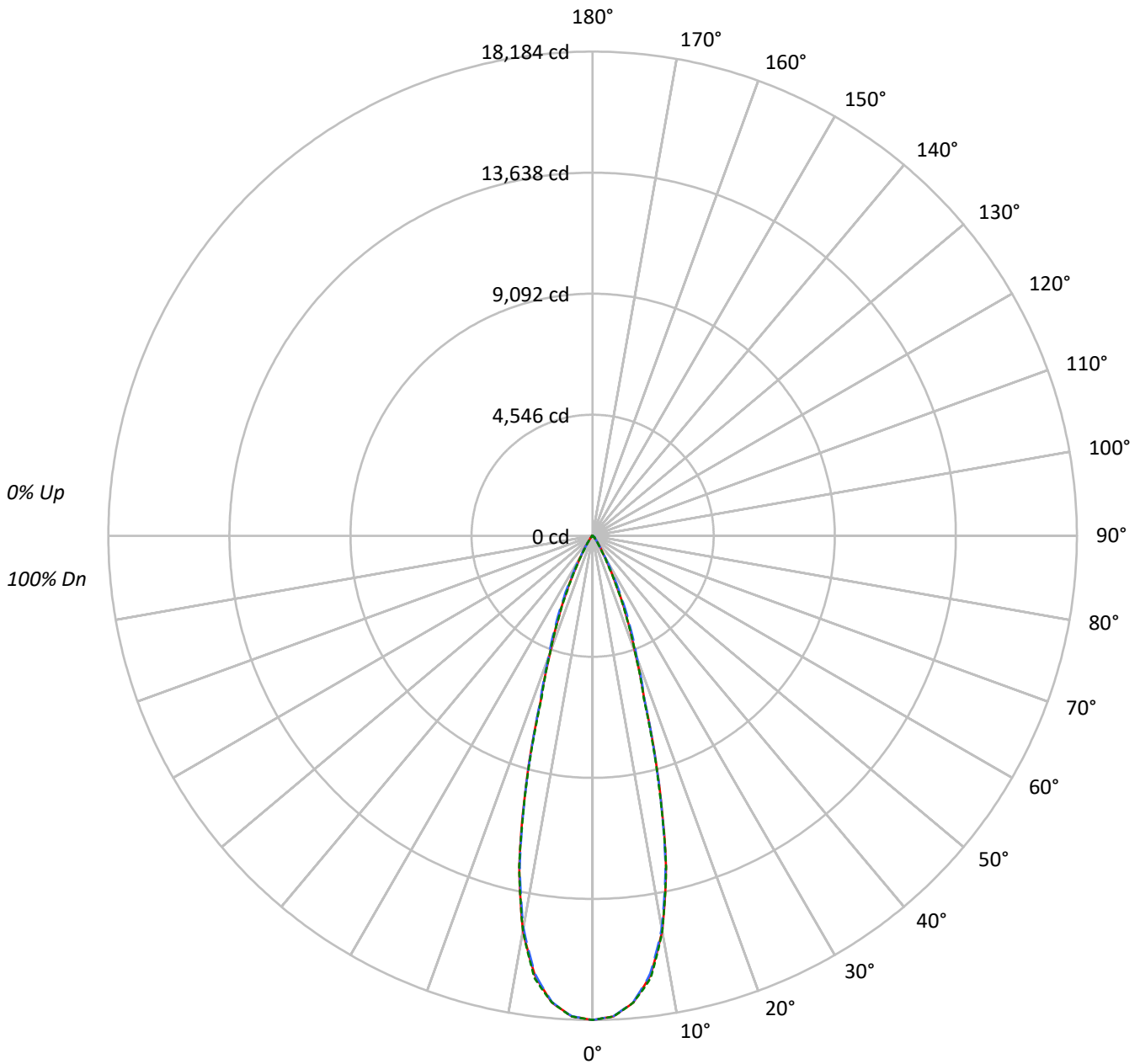


Downlight

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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°	1391857	1391857	1391857
5°	1351902	1350320	1351972
10°	1170954	1162692	1170674
15°	763987	759882	756063
20°	379893	394148	379388
25°	191361	215794	187442
30°	76621	83479	66757
35°	35536	34032	28528
40°	15348	17036	14448
45°	10825	13434	10922
50°	3715	9776	3930
55°	2149	4057	2269
60°	1500	1776	1500
65°	978	978	978
70°	604	403	604
75°	0	266	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 13434 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1599.0	28.3
10°-20°	2575.2	45.5
20°-30°	1112.8	19.7
30°-40°	253.6	4.5
40°-50°	87.1	1.5
50°-60°	21.3	0.4
60°-70°	5.5	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°	5287.0	93.5
0°-40°	5540.6	98.0
0°-60°	5649.0	99.9
0°-90°	5655.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5655.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	18184	18184	18184	18184	18184	
5°	17595	17578	17574	17611	17596	1600
15°	9641	9525	9589	9558	9541	2582
25°	2266	2352	2555	2292	2219	1085
35°	380	388	364	362	305	258
45°	100	124	124	124	101	71
55°	16	17	30	18	17	16
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°	18183.9	18183.9	18183.9	18183.9	18183.9
2.5°	18063.4	18050.9	18058.0	18066.9	18070.5
5°	17594.7	17577.7	17574.1	17610.7	17595.6
7.5°	16649.2	16625.1	16588.5	16671.5	16749.2
10°	15065.5	15038.7	14959.2	14998.5	15061.9
12.5°	12727.3	12640.7	12638.9	12763.9	12746.9
15°	9641.0	9524.9	9589.2	9558.0	9541.0
17.5°	6483.3	6438.6	6524.3	6498.5	6386.9
20°	4663.8	4675.4	4838.8	4756.7	4657.6
22.5°	3403.2	3445.2	3638.9	3427.3	3349.7
25°	2265.8	2351.6	2555.1	2291.7	2219.4
27.5°	1393.6	1432.9	1639.1	1375.8	1336.5
30°	866.9	847.2	944.5	810.6	755.3
32.5°	568.7	543.7	574.9	516.0	471.4
35°	380.3	388.4	364.2	361.6	305.3
37.5°	237.5	273.2	241.0	257.1	196.4
40°	153.6	198.2	170.5	188.4	144.6
42.5°	125.9	152.7	140.2	149.1	128.6
45°	100.0	124.1	124.1	124.1	100.9
47.5°	55.4	83.0	106.2	84.8	58.9
50°	31.2	42.0	82.1	43.7	33.0
52.5°	21.4	24.1	56.2	25.0	22.3
55°	16.1	17.0	30.4	17.9	17.0
57.5°	12.5	13.4	16.1	13.4	12.5
60°	9.8	9.8	11.6	10.7	9.8
62.5°	7.1	7.1	8.0	7.1	7.1
65°	5.4	5.4	5.4	5.4	5.4
67.5°	2.7	3.6	3.6	3.6	3.6
70°	2.7	1.8	1.8	1.8	2.7
72.5°	1.8	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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