

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: P746820

Luminaire Tested: LD4D35BD010-EU4DR3020359050-4LBS1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P746820
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: LD4D35BD010-EU4DR3020359050-4LBS1MW
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3326.5 lumens
Efficiency: N/A
Efficacy: 108.0 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): 30.8
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

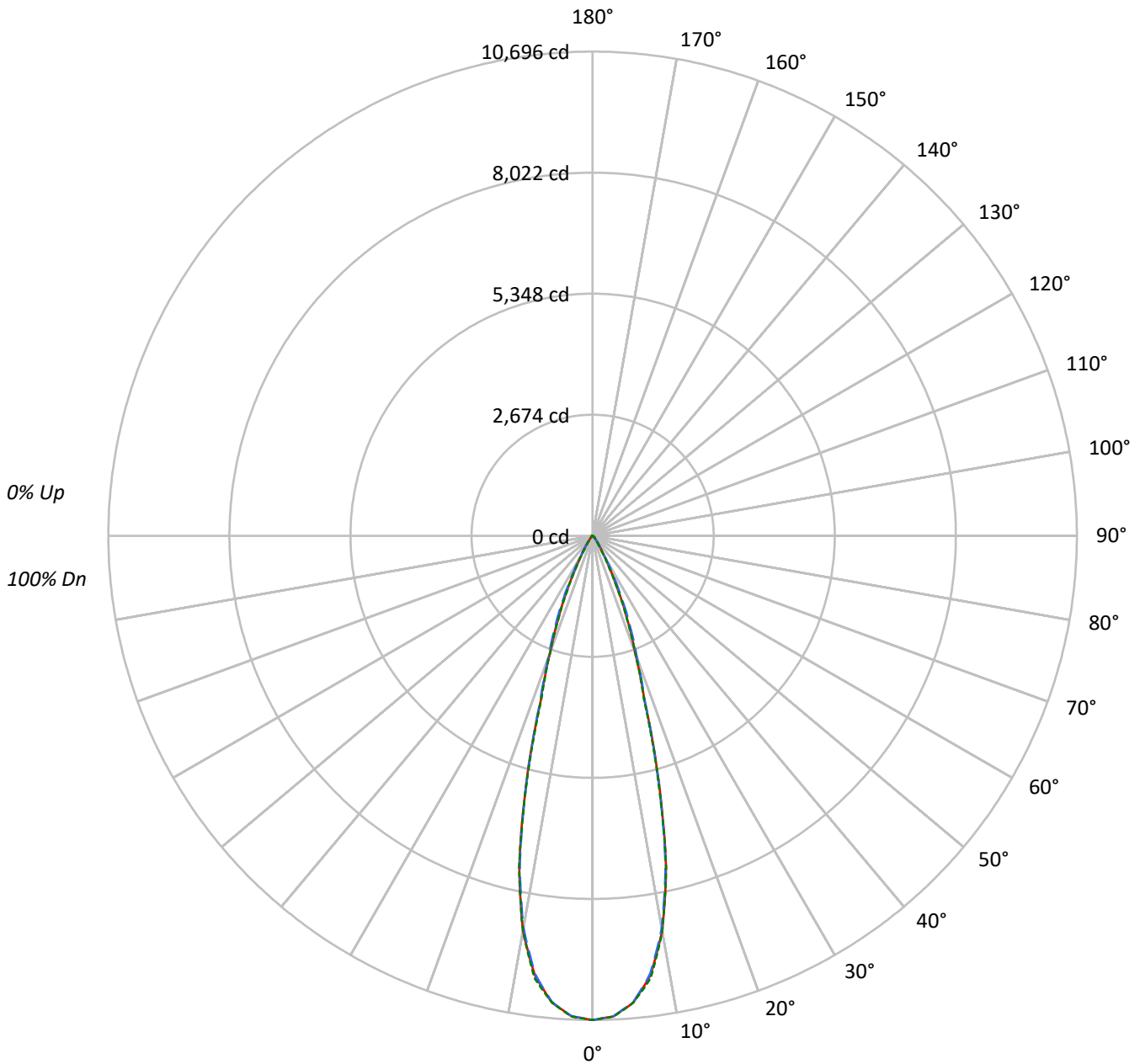


Downlight

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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	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°	818723	818723	818723
5°	795220	794290	795258
10°	688776	683926	688613
15°	449398	446981	444731
20°	223466	231848	223164
25°	112563	126938	110258
30°	45067	49107	39269
35°	20903	20025	16782
40°	9023	10022	8503
45°	6365	7902	6419
50°	2191	5752	2310
55°	1268	2389	1334
60°	888	1041	888
65°	580	580	580
70°	358	246	358
75°	0	148	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 7902 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	940.6	28.3
10°-20°	1514.8	45.5
20°-30°	654.6	19.7
30°-40°	149.2	4.5
40°-50°	51.2	1.5
50°-60°	12.5	0.4
60°-70°	3.3	0.1
70°-80°	0.3	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°	3109.9	93.5
0°-40°	3259.1	98.0
0°-60°	3322.9	99.9
0°-90°	3326.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3326.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10696	10696	10696	10696	10696	
5°	10350	10340	10338	10359	10350	941
15°	5671	5603	5641	5622	5612	1519
25°	1333	1383	1503	1348	1306	638
35°	224	228	214	213	180	152
45°	59	73	73	73	59	42
55°	10	10	18	10	10	9
65°	3	3	3	3	3	3
75°	0	0	0	0	0	0
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°	10696.2	10696.2	10696.2	10696.2	10696.2
2.5°	10625.3	10617.9	10622.1	10627.4	10629.5
5°	10349.6	10339.6	10337.5	10359.0	10350.1
7.5°	9793.5	9779.3	9757.7	9806.6	9852.3
10°	8861.8	8846.1	8799.4	8822.5	8859.7
12.5°	7486.5	7435.5	7434.5	7508.0	7498.0
15°	5671.1	5602.8	5640.6	5622.2	5612.2
17.5°	3813.6	3787.4	3837.8	3822.5	3756.9
20°	2743.4	2750.2	2846.3	2798.0	2739.7
22.5°	2001.9	2026.5	2140.5	2016.0	1970.3
25°	1332.8	1383.2	1503.0	1348.1	1305.5
27.5°	819.8	842.9	964.2	809.3	786.1
30°	509.9	498.4	555.6	476.8	444.3
32.5°	334.5	319.8	338.2	303.5	277.3
35°	223.7	228.4	214.3	212.7	179.6
37.5°	139.7	160.7	141.8	151.2	115.5
40°	90.3	116.6	100.3	110.8	85.1
42.5°	74.0	89.8	82.4	87.7	75.6
45°	58.8	73.0	73.0	73.0	59.3
47.5°	32.6	48.8	62.5	49.9	34.7
50°	18.4	24.7	48.3	25.7	19.4
52.5°	12.6	14.2	33.1	14.7	13.1
55°	9.5	10.0	17.9	10.5	10.0
57.5°	7.4	7.9	9.5	7.9	7.4
60°	5.8	5.8	6.8	6.3	5.8
62.5°	4.2	4.2	4.7	4.2	4.2
65°	3.2	3.2	3.2	3.2	3.2
67.5°	1.6	2.1	2.1	2.1	2.1
70°	1.6	1.1	1.1	1.1	1.6
72.5°	1.1	0.5	0.5	0.5	0.5
75°	0.0	0.0	0.5	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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