

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: P754607

Luminaire Tested: LD4D85BD010-EU4DR3070959040-4LBS1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P754607
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: LD4D85BD010-EU4DR3070959040-4LBS1MW
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: 8373.7 lumens
Efficiency: N/A
Efficacy: 95.5 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): 87.7
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

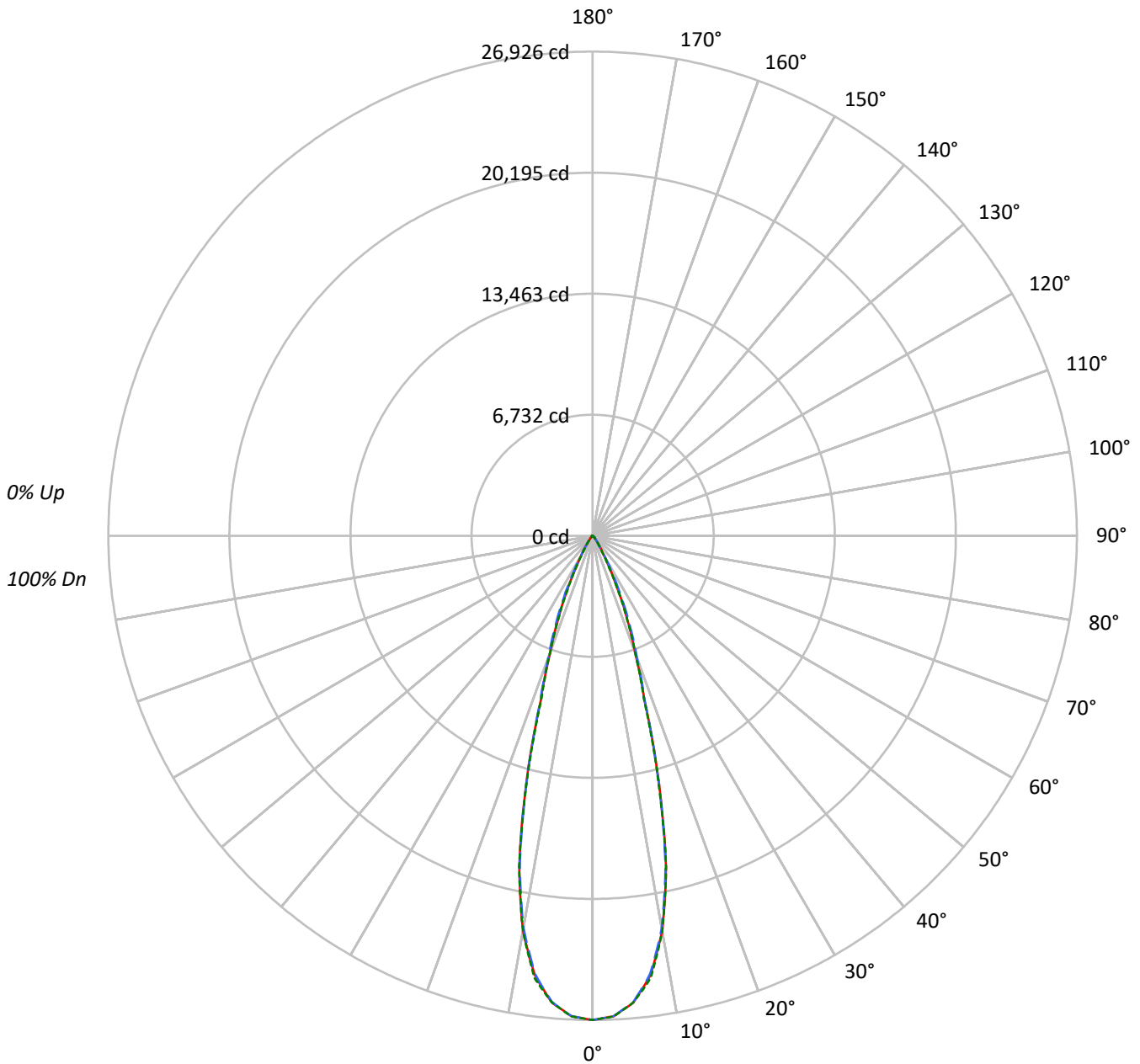


Downlight

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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°	2060985	2060985	2060985
5°	2001818	1999482	2001918
10°	1733879	1721653	1733467
15°	1131273	1125195	1119537
20°	562525	583631	561776
25°	283359	319540	277557
30°	113451	123615	98849
35°	52627	50403	42245
40°	22722	25230	21403
45°	16032	19896	16172
50°	5513	14480	5823
55°	3176	5992	3350
60°	2220	2633	2220
65°	1431	1431	1431
70°	895	582	895
75°	0	384	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 19896 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2367.7	28.3
10°-20°	3813.2	45.5
20°-30°	1647.8	19.7
30°-40°	375.6	4.5
40°-50°	129.0	1.5
50°-60°	31.5	0.4
60°-70°	8.2	0.1
70°-80°	0.9	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°	7828.7	93.5
0°-40°	8204.3	98.0
0°-60°	8364.7	99.9
0°-90°	8373.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8373.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	26926	26926	26926	26926	26926	
5°	26053	26028	26023	26077	26054	2370
15°	14276	14104	14199	14153	14128	3823
25°	3355	3482	3784	3394	3286	1606
35°	563	575	539	535	452	382
45°	148	184	184	184	149	105
55°	24	25	45	26	25	23
65°	8	8	8	8	8	8
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°	26925.7	26925.7	26925.7	26925.7	26925.7
2.5°	26747.3	26728.7	26739.3	26752.5	26757.8
5°	26053.2	26028.1	26022.8	26077.0	26054.5
7.5°	24653.3	24617.6	24563.4	24686.3	24801.3
10°	22308.1	22268.4	22150.8	22209.0	22302.8
12.5°	18845.9	18717.7	18715.0	18900.1	18875.0
15°	14275.9	14104.0	14199.2	14152.9	14127.8
17.5°	9600.1	9534.0	9660.9	9622.6	9457.3
20°	6905.9	6923.1	7165.0	7043.4	6896.7
22.5°	5039.3	5101.5	5388.3	5075.0	4960.0
25°	3355.1	3482.0	3783.5	3393.5	3286.4
27.5°	2063.6	2121.7	2427.1	2037.1	1979.0
30°	1283.6	1254.5	1398.6	1200.3	1118.4
32.5°	842.1	805.1	851.3	764.1	698.0
35°	563.2	575.1	539.4	535.4	452.1
37.5°	351.6	404.5	356.9	380.7	290.8
40°	227.4	293.5	252.5	278.9	214.2
42.5°	186.4	226.1	207.5	220.8	190.4
45°	148.1	183.8	183.8	183.8	149.4
47.5°	82.0	122.9	157.3	125.6	87.2
50°	46.3	62.1	121.6	64.8	48.9
52.5°	31.7	35.7	83.3	37.0	33.0
55°	23.8	25.1	44.9	26.4	25.1
57.5°	18.5	19.8	23.8	19.8	18.5
60°	14.5	14.5	17.2	15.9	14.5
62.5°	10.6	10.6	11.9	10.6	10.6
65°	7.9	7.9	7.9	7.9	7.9
67.5°	4.0	5.3	5.3	5.3	5.3
70°	4.0	2.6	2.6	2.6	4.0
72.5°	2.6	1.3	1.3	1.3	1.3
75°	0.0	0.0	1.3	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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