

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: P752228

Luminaire Tested: LD4D70BD010-EU4DR3070959027-4LBS1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P752228
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: LD4D70BD010-EU4DR3070959027-4LBS1MW
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: 6433.2 lumens
Efficiency: N/A
Efficacy: 96.6 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): 66.6
Input Voltage (V): NR
Input Current (Ain): 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

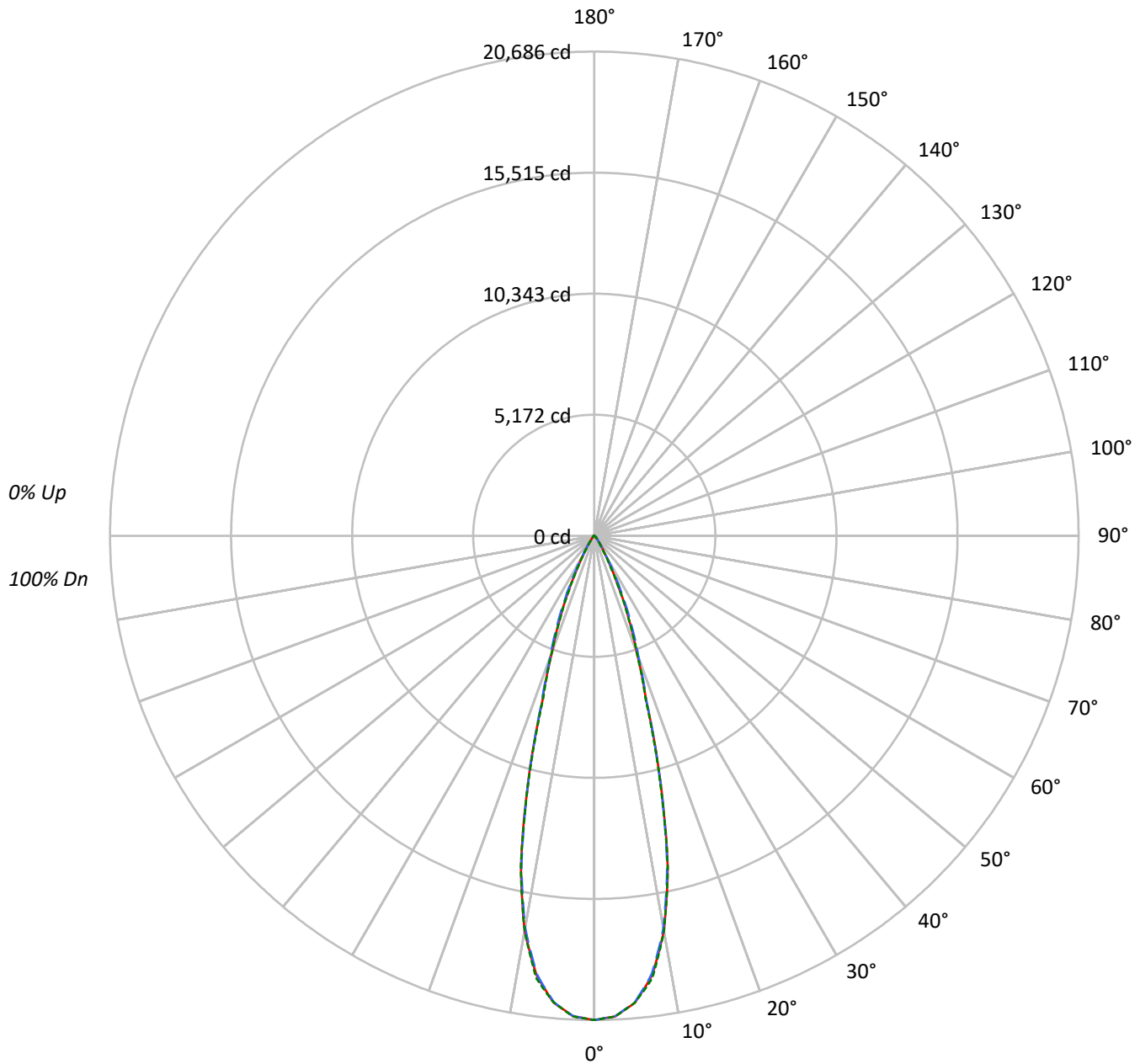


Downlight

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	115	113	111	109	112	110	109	107	106	105	104		103	102	101		99
2	111	107	104	101	109	105	102	100	102	100	98		99	97	96		97
3	107	102	98	95	105	101	97	94	98	95	93		96	93	91		94
4	103	98	93	90	102	96	93	90	94	91	89		93	90	88		91
5	100	94	89	86	98	93	89	86	91	88	85		90	86	84		88
6	97	90	85	82	95	89	85	82	88	84	81		87	83	81		85
7	94	87	82	79	92	86	82	79	85	81	78		84	81	78		83
8	91	84	79	76	90	83	79	76	82	78	76		81	78	75		80
9	88	81	76	73	87	80	76	73	80	76	73		79	75	73		78
10	85	78	74	71	85	78	74	71	77	73	71		76	73	71		76

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1583369	1583369	1583369
5°	1537914	1536116	1537991
10°	1332061	1322672	1331750
15°	869104	864436	860094
20°	432164	448381	431585
25°	217695	245489	213235
30°	87165	94969	75940
35°	40423	38722	32452
40°	17456	19385	16437
45°	12308	15285	12427
50°	4227	11122	4477
55°	2442	4604	2576
60°	1715	2021	1715
65°	1105	1105	1105
70°	671	448	671
75°	0	296	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 15285 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1819.0	28.3
10°-20°	2929.5	45.5
20°-30°	1265.9	19.7
30°-40°	288.5	4.5
40°-50°	99.1	1.5
50°-60°	24.2	0.4
60°-70°	6.3	0.1
70°-80°	0.7	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°	6014.5	93.5
0°-40°	6303.0	98.0
0°-60°	6426.3	99.9
0°-90°	6433.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6433.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	20686	20686	20686	20686	20686	
5°	20016	19996	19992	20034	20017	1821
15°	10968	10836	10909	10873	10854	2937
25°	2578	2675	2907	2607	2525	1234
35°	433	442	414	411	347	293
45°	114	141	141	141	115	81
55°	18	19	34	20	19	18
65°	6	6	6	6	6	6
75°	0	0	1	0	0	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	20685.9	20685.9	20685.9	20685.9	20685.9
2.5°	20548.7	20534.5	20542.7	20552.8	20556.9
5°	20015.6	19996.3	19992.2	20033.8	20016.6
7.5°	18940.0	18912.6	18871.0	18965.4	19053.8
10°	17138.3	17107.9	17017.5	17062.2	17134.3
12.5°	14478.5	14380.0	14377.9	14520.1	14500.8
15°	10967.5	10835.5	10908.6	10873.1	10853.8
17.5°	7375.3	7324.5	7422.0	7392.6	7265.6
20°	5305.5	5318.7	5504.6	5411.1	5298.4
22.5°	3871.5	3919.2	4139.6	3898.9	3810.6
25°	2577.6	2675.1	2906.7	2607.1	2524.8
27.5°	1585.4	1630.0	1864.7	1565.0	1520.4
30°	986.2	963.8	1074.5	922.2	859.2
32.5°	646.9	618.5	654.1	587.0	536.2
35°	432.6	441.8	414.4	411.3	347.3
37.5°	270.2	310.8	274.2	292.5	223.4
40°	174.7	225.5	194.0	214.3	164.5
42.5°	143.2	173.7	159.5	169.6	146.2
45°	113.7	141.2	141.2	141.2	114.8
47.5°	63.0	94.5	120.9	96.5	67.0
50°	35.5	47.7	93.4	49.8	37.6
52.5°	24.4	27.4	64.0	28.4	25.4
55°	18.3	19.3	34.5	20.3	19.3
57.5°	14.2	15.2	18.3	15.2	14.2
60°	11.2	11.2	13.2	12.2	11.2
62.5°	8.1	8.1	9.1	8.1	8.1
65°	6.1	6.1	6.1	6.1	6.1
67.5°	3.0	4.1	4.1	4.1	4.1
70°	3.0	2.0	2.0	2.0	3.0
72.5°	2.0	1.0	1.0	1.0	1.0
75°	0.0	0.0	1.0	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



Report Generated By 670245859 / DESKTOP-T8S5UU9





— 0°-180° - - 45°-225° - - - 90°-270°







(END OF REPORT)