

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: P752215

Luminaire Tested: LD4D70BD010-EU4DR3070959024-4LBS1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P752215
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-EU4DR3070959024-4LBS1MW
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5679.1 lumens
Efficiency: N/A
Efficacy: 85.3 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

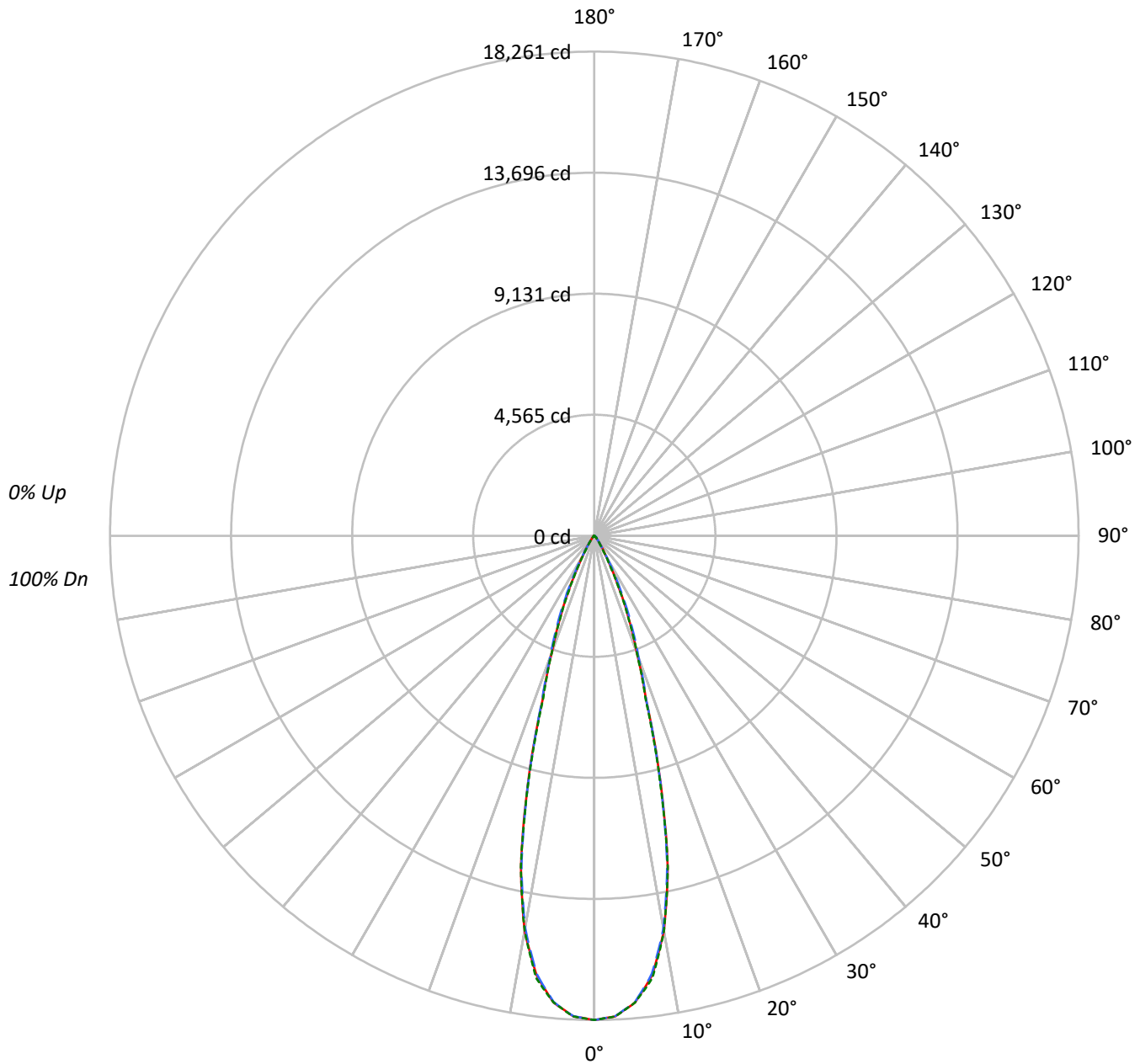


Downlight

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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°	1397767	1397767	1397767
5°	1357642	1356059	1357711
10°	1175928	1167635	1175648
15°	767236	763115	759272
20°	381506	395826	381001
25°	192180	216715	188236
30°	76948	83842	67040
35°	35686	34181	28649
40°	15408	17106	14508
45°	10868	13488	10966
50°	3739	9824	3953
55°	2149	4070	2269
60°	1516	1791	1516
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: 13488 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1605.8	28.3
10°-20°	2586.1	45.5
20°-30°	1117.5	19.7
30°-40°	254.7	4.5
40°-50°	87.5	1.5
50°-60°	21.4	0.4
60°-70°	5.6	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°	5309.5	93.5
0°-40°	5564.2	98.0
0°-60°	5673.0	99.9
0°-90°	5679.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5679.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	18261	18261	18261	18261	18261	
5°	17669	17652	17649	17686	17670	1607
15°	9682	9565	9630	9599	9582	2592
25°	2276	2362	2566	2302	2229	1089
35°	382	390	366	363	307	259
45°	100	125	125	125	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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	18261.1	18261.1	18261.1	18261.1	18261.1
2.5°	18140.1	18127.6	18134.7	18143.7	18147.3
5°	17669.4	17652.4	17648.8	17685.5	17670.3
7.5°	16720.0	16695.7	16659.0	16742.4	16820.4
10°	15129.5	15102.6	15022.8	15062.2	15125.9
12.5°	12781.4	12694.4	12692.6	12818.1	12801.1
15°	9682.0	9565.4	9630.0	9598.6	9581.5
17.5°	6510.8	6466.0	6552.1	6526.1	6414.0
20°	4683.6	4695.3	4859.4	4776.9	4677.4
22.5°	3417.7	3459.8	3654.4	3441.9	3363.9
25°	2275.5	2361.5	2566.0	2301.5	2228.8
27.5°	1399.5	1439.0	1646.1	1381.6	1342.2
30°	870.6	850.8	948.6	814.1	758.5
32.5°	571.1	546.0	577.4	518.2	473.4
35°	381.9	390.0	365.8	363.1	306.6
37.5°	238.5	274.3	242.1	258.2	197.2
40°	154.2	199.0	171.2	189.2	145.2
42.5°	126.4	153.3	140.8	149.7	129.1
45°	100.4	124.6	124.6	124.6	101.3
47.5°	55.6	83.4	106.7	85.2	59.2
50°	31.4	42.1	82.5	43.9	33.2
52.5°	21.5	24.2	56.5	25.1	22.4
55°	16.1	17.0	30.5	17.9	17.0
57.5°	12.6	13.4	16.1	13.4	12.6
60°	9.9	9.9	11.7	10.8	9.9
62.5°	7.2	7.2	8.1	7.2	7.2
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



Report Generated By 670245859 / DESKTOP-T8S5UU9





— 0°-180° - - 45°-225° - - - 90°-270°







(END OF REPORT)