

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: P752273

Luminaire Tested: LD4D70BD010-EU4DR3070959050-4LBDP1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P752273
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-EU4DR3070959050-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5681.2 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

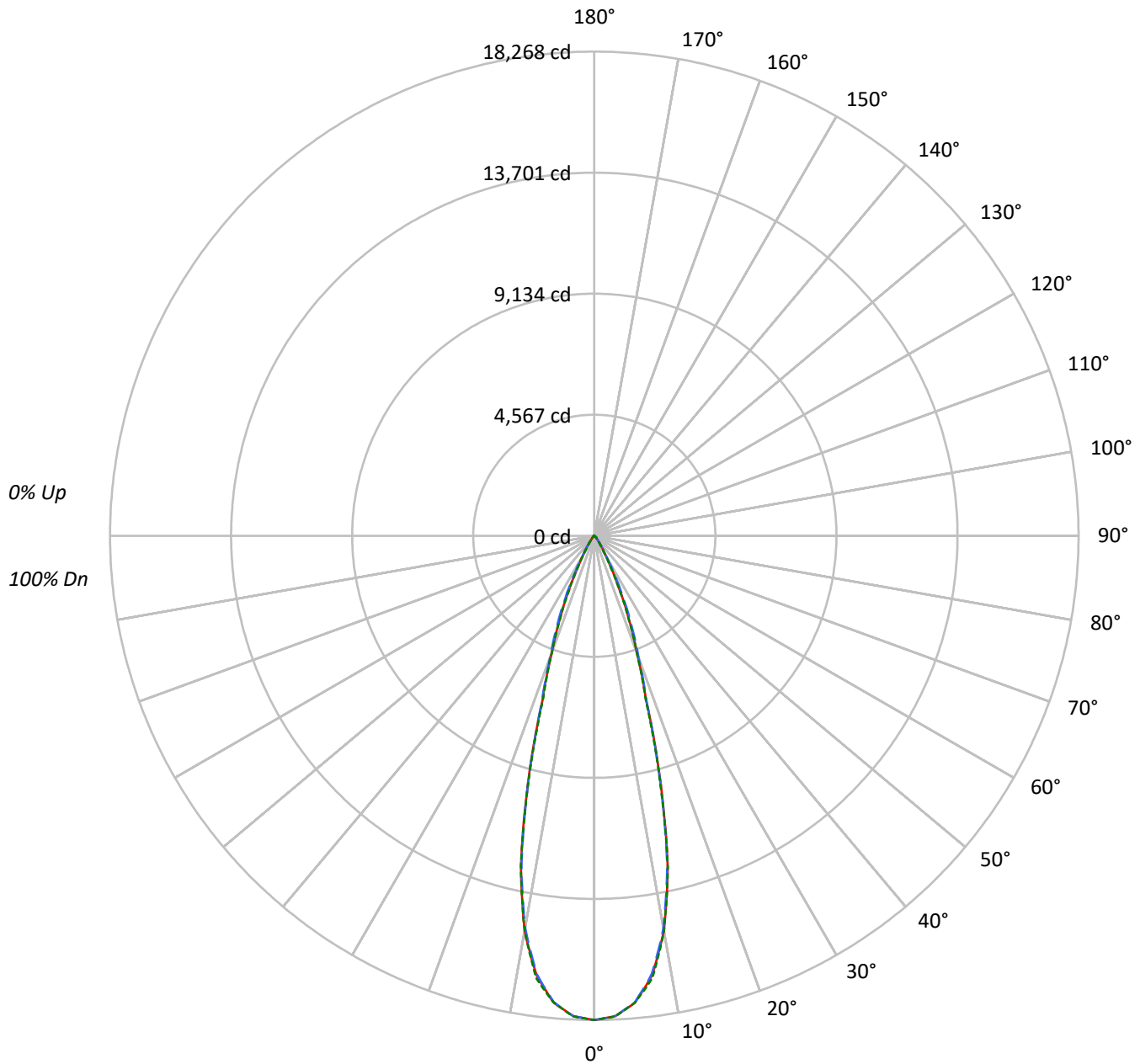


Downlight

TEST NUMBER: P752273

CATALOG NUMBER: LD4D70BD010-EU4DR3070959050-4LBDP1B

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1398272	1398272	1398272
5°	1358126	1356543	1358195
10°	1176348	1168047	1176068
15°	767506	763385	759549
20°	381645	395965	381132
25°	192248	216791	188304
30°	76974	83868	67066
35°	35704	34191	28659
40°	15418	17116	14518
45°	10879	13499	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: 13499 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1606.4	28.3
10°-20°	2587.1	45.5
20°-30°	1117.9	19.7
30°-40°	254.8	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°	5311.4	93.5
0°-40°	5566.2	98.0
0°-60°	5675.0	99.9
0°-90°	5681.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5681.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	18268	18268	18268	18268	18268	
5°	17676	17659	17655	17692	17677	1608
15°	9685	9569	9633	9602	9585	2593
25°	2276	2362	2567	2302	2230	1090
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°	18267.7	18267.7	18267.7	18267.7	18267.7
2.5°	18146.6	18134.0	18141.2	18150.2	18153.8
5°	17675.7	17658.7	17655.1	17691.9	17676.6
7.5°	16725.9	16701.7	16664.9	16748.3	16826.4
10°	15134.9	15107.9	15028.1	15067.6	15131.3
12.5°	12785.9	12698.9	12697.1	12822.7	12805.7
15°	9685.4	9568.8	9633.4	9602.0	9585.0
17.5°	6513.1	6468.3	6554.4	6528.4	6416.3
20°	4685.3	4697.0	4861.1	4778.6	4679.0
22.5°	3418.9	3461.1	3655.7	3443.1	3365.1
25°	2276.3	2362.4	2566.9	2302.3	2229.6
27.5°	1400.0	1439.5	1646.7	1382.1	1342.6
30°	870.9	851.1	948.9	814.4	758.8
32.5°	571.3	546.2	577.6	518.4	473.6
35°	382.1	390.1	365.9	363.2	306.7
37.5°	238.6	274.4	242.2	258.3	197.3
40°	154.3	199.1	171.3	189.2	145.3
42.5°	126.5	153.4	140.8	149.8	129.2
45°	100.5	124.7	124.7	124.7	101.3
47.5°	55.6	83.4	106.7	85.2	59.2
50°	31.4	42.2	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	13.5	16.1	13.5	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)