

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: P752212

Luminaire Tested: LD4D70BD010-EU4DR3070959024-4LBS1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P752212
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-EU4DR3070959024-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5601.6 lumens
Efficiency: N/A
Efficacy: 84.1 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

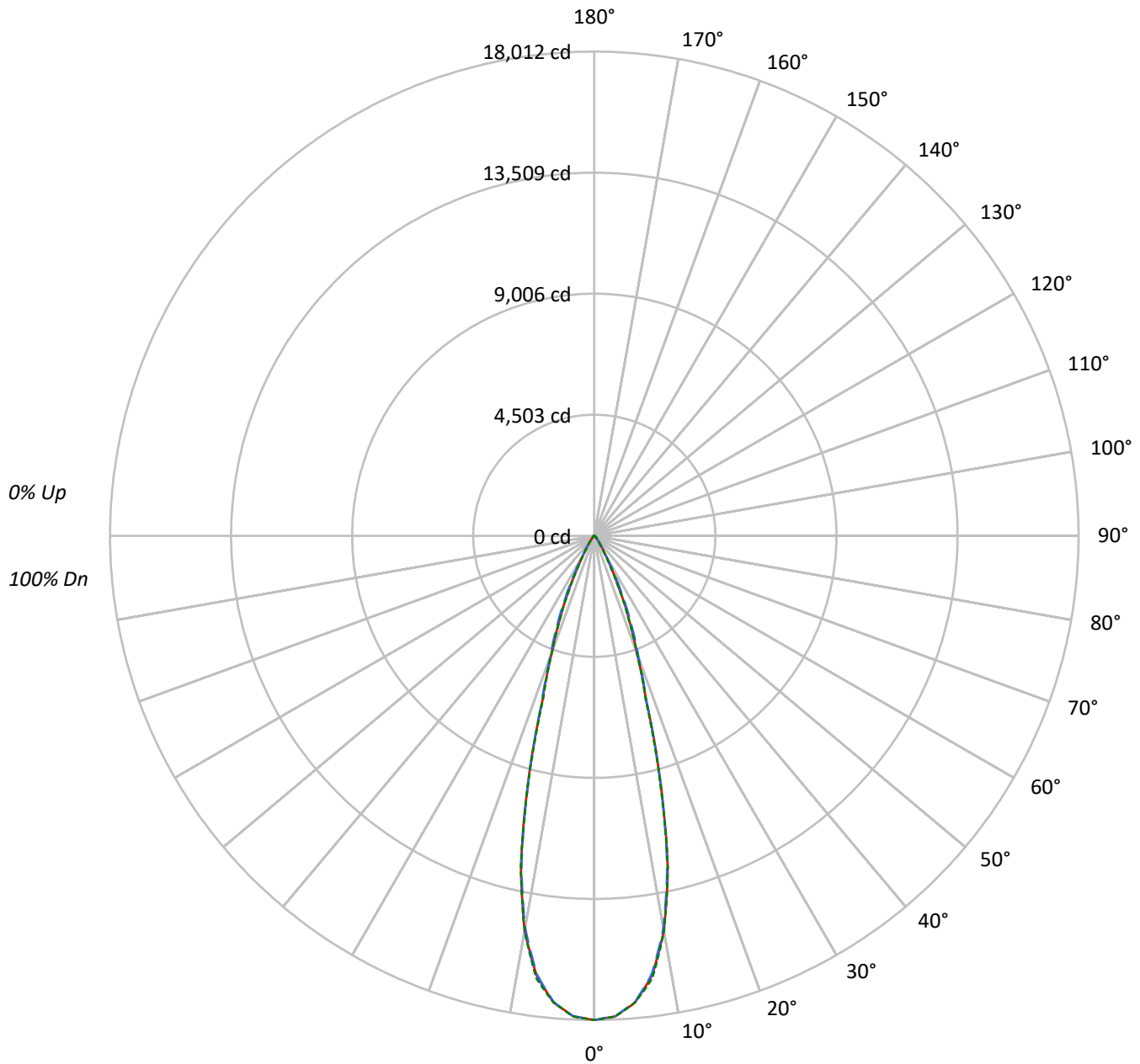


Downlight

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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°	1378692	1378692	1378692
5°	1339117	1337550	1339186
10°	1159878	1151694	1159598
15°	756760	752695	748915
20°	376301	390418	375796
25°	189554	213750	185669
30°	75896	82693	66121
35°	35200	33714	28257
40°	15198	16877	14319
45°	10717	13304	10814
50°	3691	9693	3894
55°	2122	4017	2242
60°	1485	1760	1485
65°	960	960	960
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: 13304 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1583.9	28.3
10°-20°	2550.8	45.5
20°-30°	1102.3	19.7
30°-40°	251.2	4.5
40°-50°	86.3	1.5
50°-60°	21.1	0.4
60°-70°	5.5	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°	5237.0	93.5
0°-40°	5488.2	98.0
0°-60°	5595.6	99.9
0°-90°	5601.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5601.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	18012	18012	18012	18012	18012	
5°	17428	17412	17408	17444	17429	1585
15°	9550	9435	9498	9468	9451	2557
25°	2244	2329	2531	2270	2198	1074
35°	377	385	361	358	302	256
45°	99	123	123	123	100	70
55°	16	17	30	18	17	15
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°	18011.9	18011.9	18011.9	18011.9	18011.9
2.5°	17892.5	17880.2	17887.2	17896.1	17899.6
5°	17428.3	17411.5	17407.9	17444.2	17429.2
7.5°	16491.8	16467.9	16431.6	16513.9	16590.8
10°	14923.0	14896.4	14817.7	14856.7	14919.4
12.5°	12606.9	12521.2	12519.4	12643.2	12626.4
15°	9549.8	9434.9	9498.5	9467.6	9450.8
17.5°	6422.0	6377.7	6462.6	6437.0	6326.5
20°	4619.7	4631.2	4793.0	4711.7	4613.5
22.5°	3371.0	3412.6	3604.5	3394.9	3318.0
25°	2244.4	2329.3	2530.9	2270.1	2198.4
27.5°	1380.4	1419.3	1623.6	1362.7	1323.8
30°	858.7	839.2	935.6	803.0	748.1
32.5°	563.3	538.6	569.5	511.1	466.9
35°	376.7	384.7	360.8	358.2	302.4
37.5°	235.2	270.6	238.8	254.7	194.6
40°	152.1	196.3	168.9	186.6	143.3
42.5°	124.7	151.2	138.8	147.7	127.3
45°	99.0	122.9	122.9	122.9	99.9
47.5°	54.8	82.2	105.2	84.0	58.4
50°	31.0	41.6	81.4	43.3	32.7
52.5°	21.2	23.9	55.7	24.8	22.1
55°	15.9	16.8	30.1	17.7	16.8
57.5°	12.4	13.3	15.9	13.3	12.4
60°	9.7	9.7	11.5	10.6	9.7
62.5°	7.1	7.1	8.0	7.1	7.1
65°	5.3	5.3	5.3	5.3	5.3
67.5°	2.7	3.5	3.5	3.5	3.5
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)