

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: P752240

Luminaire Tested: LD4D70BD010-EU4DR3070959030-4LBS1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P752240
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-EU4DR3070959030-4LBS1LI
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7321.0 lumens
Efficiency: N/A
Efficacy: 109.9 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

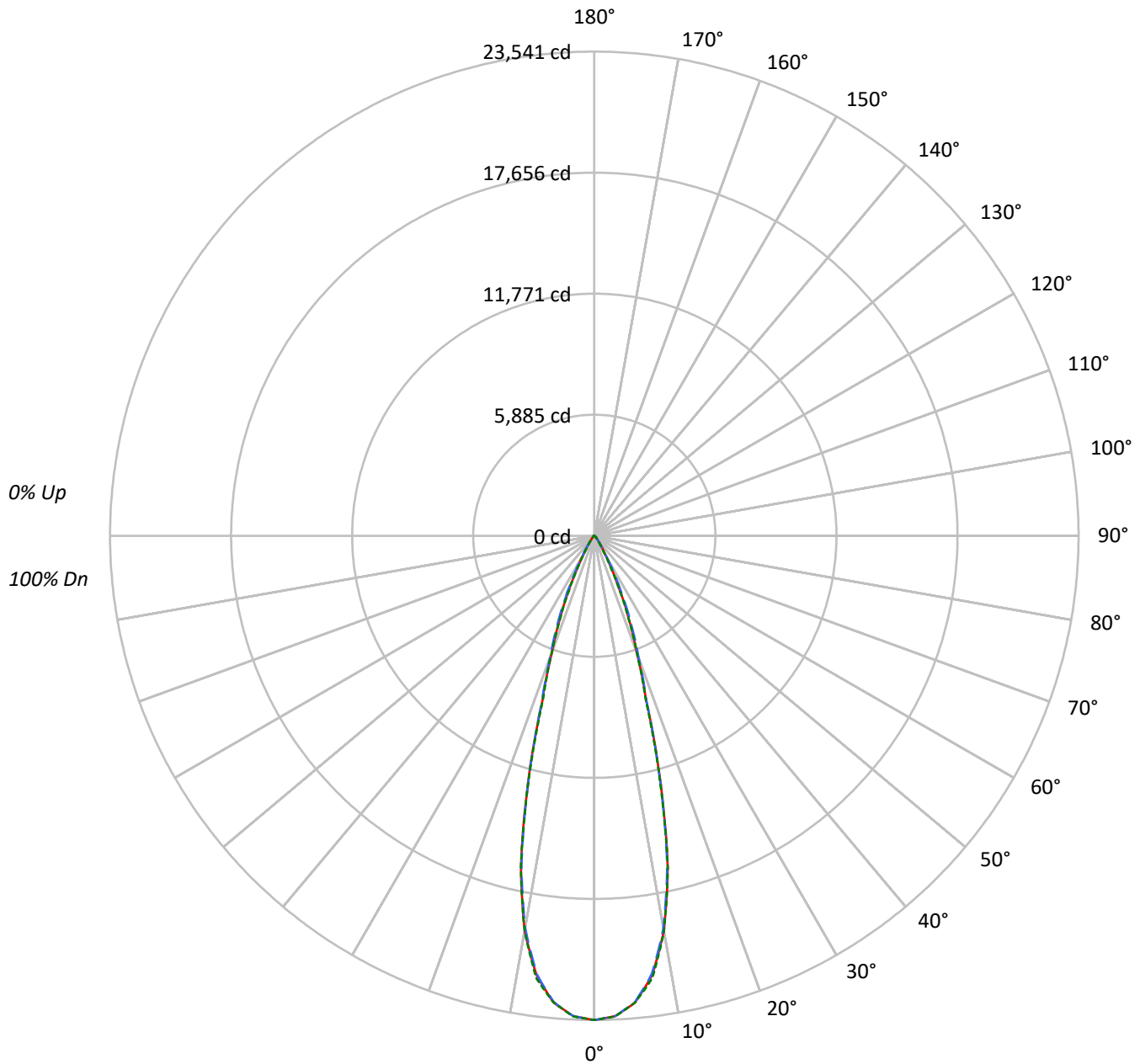


Downlight

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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	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°	1801877	1801877	1801877
5°	1750150	1748106	1750235
10°	1515894	1505207	1515536
15°	989047	983729	978785
20°	491806	510255	491146
25°	247736	279365	242660
30°	99185	108077	86423
35°	46011	44067	36938
40°	19864	22062	18705
45°	14007	17396	14137
50°	4823	12658	5097
55°	2776	5245	2936
60°	1944	2296	1944
65°	1250	1250	1250
70°	783	515	783
75°	0	355	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 17396 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2070.0	28.3
10°-20°	3333.8	45.5
20°-30°	1440.6	19.7
30°-40°	328.4	4.5
40°-50°	112.7	1.5
50°-60°	27.5	0.4
60°-70°	7.1	0.1
70°-80°	0.8	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°	6844.5	93.5
0°-40°	7172.8	98.0
0°-60°	7313.1	99.9
0°-90°	7321.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7321.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	23541	23541	23541	23541	23541	
5°	22778	22756	22751	22799	22779	2072
15°	12481	12331	12414	12374	12352	3342
25°	2933	3044	3308	2967	2873	1404
35°	492	503	472	468	395	334
45°	129	161	161	161	131	92
55°	21	22	39	23	22	20
65°	7	7	7	7	7	7
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°	23540.6	23540.6	23540.6	23540.6	23540.6
2.5°	23384.5	23368.4	23377.6	23389.2	23393.8
5°	22777.8	22755.8	22751.2	22798.6	22778.9
7.5°	21553.8	21522.6	21475.2	21582.7	21683.3
10°	19503.5	19468.8	19366.0	19416.8	19498.9
12.5°	16476.6	16364.4	16362.1	16523.9	16502.0
15°	12481.1	12330.8	12414.0	12373.6	12351.6
17.5°	8393.1	8335.4	8446.3	8412.8	8268.3
20°	6037.7	6052.7	6264.2	6157.9	6029.6
22.5°	4405.8	4460.1	4710.9	4437.0	4336.4
25°	2933.3	3044.3	3307.8	2966.8	2873.2
27.5°	1804.1	1855.0	2122.0	1781.0	1730.2
30°	1122.2	1096.8	1222.8	1049.4	977.8
32.5°	736.2	703.9	744.3	668.0	610.2
35°	492.4	502.8	471.6	468.1	395.3
37.5°	307.4	353.7	312.1	332.9	254.3
40°	198.8	256.6	220.8	243.9	187.2
42.5°	163.0	197.6	181.5	193.0	166.4
45°	129.4	160.7	160.7	160.7	130.6
47.5°	71.7	107.5	137.5	109.8	76.3
50°	40.5	54.3	106.3	56.6	42.8
52.5°	27.7	31.2	72.8	32.4	28.9
55°	20.8	22.0	39.3	23.1	22.0
57.5°	16.2	17.3	20.8	17.3	16.2
60°	12.7	12.7	15.0	13.9	12.7
62.5°	9.2	9.2	10.4	9.2	9.2
65°	6.9	6.9	6.9	6.9	6.9
67.5°	3.5	4.6	4.6	4.6	4.6
70°	3.5	2.3	2.3	2.3	3.5
72.5°	2.3	1.2	1.2	1.2	1.2
75°	0.0	0.0	1.2	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)