

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: P752253

Luminaire Tested: LD4D70BD010-EU4DR3070959035-4LBS1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P752253
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-EU4DR3070959035-4LBS1LI
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7398.1 lumens
Efficiency: N/A
Efficacy: 111.1 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 (A_{in}): 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

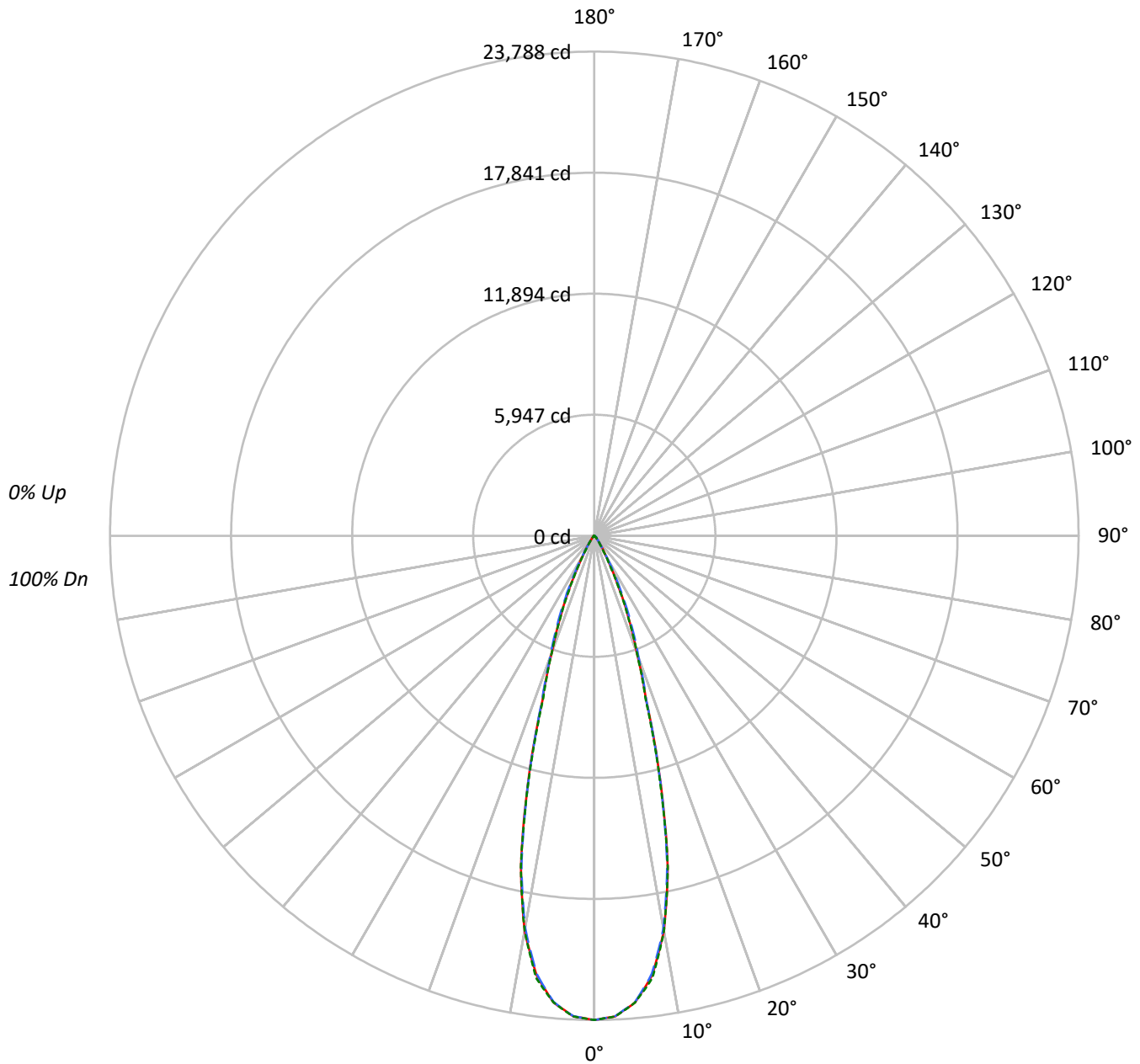


Downlight

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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°	1820853	1820853	1820853
5°	1768583	1766516	1768675
10°	1531859	1521055	1531501
15°	999459	994095	989094
20°	496986	515631	496318
25°	250345	282304	245219
30°	100237	109217	87333
35°	46488	44525	37321
40°	20074	22292	18905
45°	14159	17569	14289
50°	4870	12801	5144
55°	2802	5298	2963
60°	1960	2327	1960
65°	1268	1268	1268
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: 17569 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2091.8	28.3
10°-20°	3368.9	45.5
20°-30°	1455.8	19.7
30°-40°	331.8	4.5
40°-50°	113.9	1.5
50°-60°	27.8	0.4
60°-70°	7.2	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°	6916.6	93.5
0°-40°	7248.4	98.0
0°-60°	7390.1	99.9
0°-90°	7398.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7398.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	23788	23788	23788	23788	23788	
5°	23018	22996	22991	23039	23019	2094
15°	12612	12461	12545	12504	12482	3377
25°	2964	3076	3343	2998	2904	1419
35°	498	508	476	473	399	337
45°	131	162	162	162	132	93
55°	21	22	40	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°	23788.5	23788.5	23788.5	23788.5	23788.5
2.5°	23630.9	23614.5	23623.9	23635.5	23640.2
5°	23017.7	22995.5	22990.8	23038.7	23018.9
7.5°	21780.8	21749.3	21701.4	21810.0	21911.7
10°	19708.9	19673.9	19569.9	19621.3	19704.3
12.5°	16650.1	16536.8	16534.5	16698.0	16675.8
15°	12612.5	12460.7	12544.8	12503.9	12481.7
17.5°	8481.6	8423.2	8535.3	8501.4	8355.4
20°	6101.3	6116.5	6330.2	6222.8	6093.1
22.5°	4452.2	4507.1	4760.5	4483.7	4382.1
25°	2964.2	3076.3	3342.6	2998.1	2903.5
27.5°	1823.1	1874.5	2144.3	1799.8	1748.4
30°	1134.1	1108.4	1235.7	1060.5	988.1
32.5°	744.0	711.3	752.2	675.1	616.7
35°	497.5	508.1	476.5	473.0	399.4
37.5°	310.7	357.4	315.3	336.4	256.9
40°	200.9	259.3	223.1	246.4	189.2
42.5°	164.7	199.7	183.4	195.0	168.2
45°	130.8	162.3	162.3	162.3	132.0
47.5°	72.4	108.6	139.0	111.0	77.1
50°	40.9	54.9	107.5	57.2	43.2
52.5°	28.0	31.5	73.6	32.7	29.2
55°	21.0	22.2	39.7	23.4	22.2
57.5°	16.4	17.5	21.0	17.5	16.4
60°	12.8	12.8	15.2	14.0	12.8
62.5°	9.3	9.3	10.5	9.3	9.3
65°	7.0	7.0	7.0	7.0	7.0
67.5°	3.5	4.7	4.7	4.7	4.7
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)