

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: P752226

Luminaire Tested: LD4D70BD010-EU4DR3070959027-4LBS1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P752226
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-EU4DR3070959027-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6767.8 lumens
Efficiency: N/A
Efficacy: 101.6 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

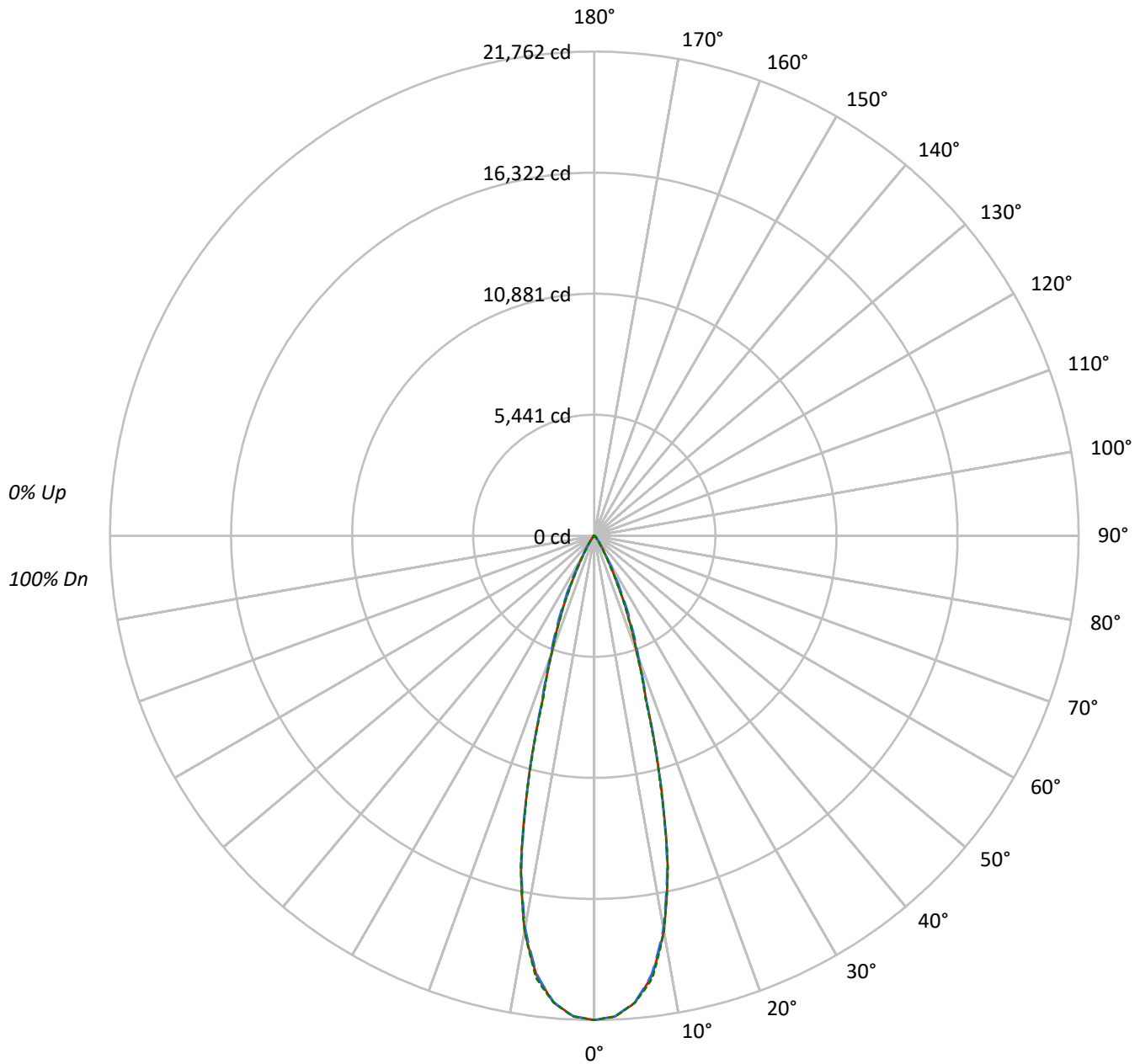


Downlight

TEST NUMBER: P752226

CATALOG NUMBER: LD4D70BD010-EU4DR3070959027-4LBS1H

Luminous Intensity Polar Plot



TEST NUMBER: P752226

CATALOG NUMBER: LD4D70BD010-EU4DR3070959027-4LBS1H

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°	1665737	1665737	1665737
5°	1617916	1616025	1617992
10°	1401360	1391481	1401025
15°	914320	909407	904835
20°	454645	471702	454035
25°	229020	258259	224324
30°	91699	99910	79891
35°	42535	40731	34144
40°	18365	20394	17296
45°	12957	16075	13066
50°	4454	11706	4704
55°	2562	4844	2709
60°	1806	2128	1806
65°	1159	1159	1159
70°	716	470	716
75°	0	325	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 16075 cd/sqm



TEST NUMBER: P752226

CATALOG NUMBER: LD4D70BD010-EU4DR3070959027-4LBS1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1913.6	28.3
10°-20°	3081.9	45.5
20°-30°	1331.8	19.7
30°-40°	303.5	4.5
40°-50°	104.2	1.5
50°-60°	25.5	0.4
60°-70°	6.6	0.1
70°-80°	0.7	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°	6327.3	93.5
0°-40°	6630.9	98.0
0°-60°	6760.6	99.9
0°-90°	6767.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6767.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	21762	21762	21762	21762	21762	
5°	21057	21036	21032	21076	21058	1915
15°	11538	11399	11476	11439	11418	3089
25°	2712	2814	3058	2743	2656	1298
35°	455	465	436	433	365	309
45°	120	148	148	148	121	85
55°	19	20	36	21	20	19
65°	6	6	6	6	6	6
75°	0	0	1	0	0	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



TEST NUMBER: P752226

CATALOG NUMBER: LD4D70BD010-EU4DR3070959027-4LBS1H

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	21762.0	21762.0	21762.0	21762.0	21762.0
2.5°	21617.7	21602.8	21611.3	21622.0	21626.3
5°	21056.8	21036.5	21032.2	21076.0	21057.8
7.5°	19925.3	19896.5	19852.7	19952.0	20045.0
10°	18029.9	17997.8	17902.8	17949.8	18025.6
12.5°	15231.7	15128.0	15125.9	15275.5	15255.2
15°	11538.1	11399.2	11476.1	11438.7	11418.4
17.5°	7759.0	7705.6	7808.1	7777.2	7643.6
20°	5581.5	5595.4	5790.9	5692.6	5574.0
22.5°	4072.9	4123.1	4355.0	4101.7	4008.8
25°	2711.7	2814.3	3057.9	2742.7	2656.1
27.5°	1667.8	1714.8	1961.7	1646.5	1599.5
30°	1037.5	1013.9	1130.4	970.1	903.9
32.5°	680.6	650.7	688.1	617.6	564.1
35°	455.2	464.8	435.9	432.7	365.4
37.5°	284.2	326.9	288.5	307.7	235.1
40°	183.8	237.2	204.1	225.4	173.1
42.5°	150.6	182.7	167.7	178.4	153.9
45°	119.7	148.5	148.5	148.5	120.7
47.5°	66.2	99.4	127.1	101.5	70.5
50°	37.4	50.2	98.3	52.4	39.5
52.5°	25.6	28.8	67.3	29.9	26.7
55°	19.2	20.3	36.3	21.4	20.3
57.5°	15.0	16.0	19.2	16.0	15.0
60°	11.8	11.8	13.9	12.8	11.8
62.5°	8.5	8.5	9.6	8.5	8.5
65°	6.4	6.4	6.4	6.4	6.4
67.5°	3.2	4.3	4.3	4.3	4.3
70°	3.2	2.1	2.1	2.1	3.2
72.5°	2.1	1.1	1.1	1.1	1.1
75°	0.0	0.0	1.1	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)