

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: P752223

Luminaire Tested: LD4D70BD010-EU4DR3070959027-4LBDP1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P752223
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-EU4DR3070959027-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF 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: 6750.9 lumens
Efficiency: N/A
Efficacy: 101.4 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

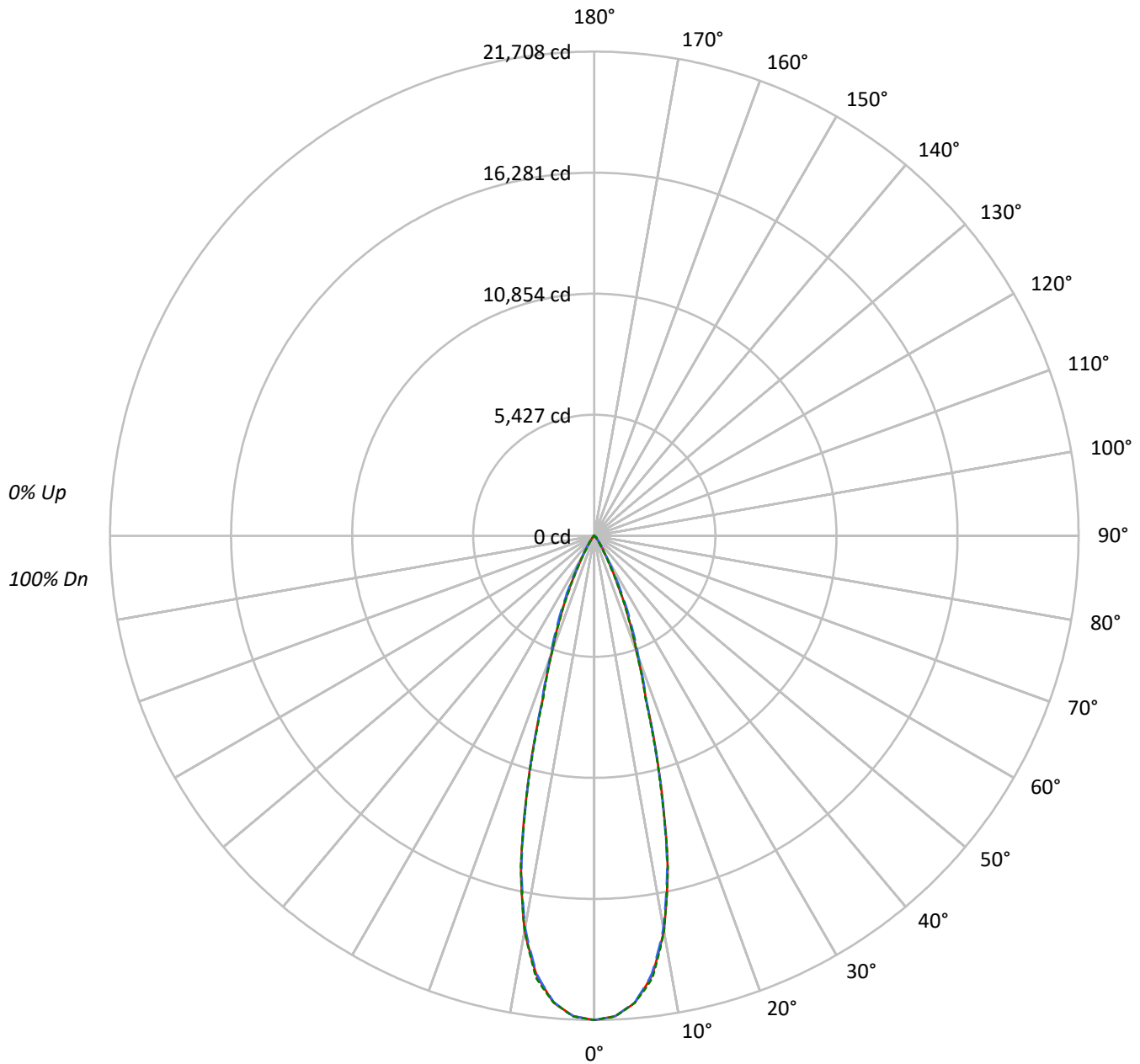


Downlight

TEST NUMBER: P752223

CATALOG NUMBER: LD4D70BD010-EU4DR3070959027-4LBDP1LI

Luminous Intensity Polar Plot



TEST NUMBER: P752223

CATALOG NUMBER: LD4D70BD010-EU4DR3070959027-4LBDP1LI

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
RW	70	50	30	10	70	50	30	10	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	100		
1	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96		
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92		
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89		
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85		
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82		
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79		
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77		
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74		
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72		
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1661566	1661566	1661566
5°	1613866	1611984	1613951
10°	1397854	1387999	1397528
15°	912030	907133	902576
20°	453513	470529	452902
25°	228446	257609	223767
30°	91469	99663	79688
35°	42423	40629	34060
40°	18315	20344	17256
45°	12925	16032	13033
50°	4442	11682	4692
55°	2562	4831	2696
60°	1791	2128	1791
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: 16032 cd/sqm

TEST NUMBER: P752223

CATALOG NUMBER: LD4D70BD010-EU4DR3070959027-4LBDP1LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1908.8	28.3
10°-20°	3074.2	45.5
20°-30°	1328.5	19.7
30°-40°	302.8	4.5
40°-50°	104.0	1.5
50°-60°	25.4	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°	6311.5	93.5
0°-40°	6614.3	98.0
0°-60°	6743.6	99.9
0°-90°	6750.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6750.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	21708	21708	21708	21708	21708	
5°	21004	20984	20980	21023	21005	1910
15°	11509	11371	11447	11410	11390	3082
25°	2705	2807	3050	2736	2650	1295
35°	454	464	435	432	364	308
45°	119	148	148	148	120	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: P752223

CATALOG NUMBER: LD4D70BD010-EU4DR3070959027-4LBDP1LI

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	21707.5	21707.5	21707.5	21707.5	21707.5
2.5°	21563.7	21548.7	21557.3	21567.9	21572.2
5°	21004.1	20983.9	20979.6	21023.3	21005.2
7.5°	19875.5	19846.7	19803.0	19902.1	19994.9
10°	17984.8	17952.8	17858.0	17904.9	17980.6
12.5°	15193.6	15090.2	15088.1	15237.3	15217.0
15°	11509.2	11370.7	11447.4	11410.1	11389.9
17.5°	7739.6	7686.3	7788.6	7757.7	7624.5
20°	5567.6	5581.4	5776.5	5678.4	5560.1
22.5°	4062.7	4112.8	4344.1	4091.5	3998.8
25°	2704.9	2807.2	3050.2	2735.8	2649.5
27.5°	1663.7	1710.6	1956.7	1642.3	1595.5
30°	1034.9	1011.4	1127.6	967.7	901.6
32.5°	678.9	649.1	686.4	616.0	562.7
35°	454.0	463.6	434.8	431.6	364.5
37.5°	283.5	326.1	287.8	306.9	234.5
40°	183.3	236.6	203.6	224.9	172.7
42.5°	150.3	182.2	167.3	178.0	153.5
45°	119.4	148.1	148.1	148.1	120.4
47.5°	66.1	99.1	126.8	101.2	70.3
50°	37.3	50.1	98.1	52.2	39.4
52.5°	25.6	28.8	67.1	29.8	26.6
55°	19.2	20.2	36.2	21.3	20.2
57.5°	14.9	16.0	19.2	16.0	14.9
60°	11.7	11.7	13.9	12.8	11.7
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)