

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: P752236

Luminaire Tested: LD4D70BD010-EU4DR3070959030-4LBDP1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P752236
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-EU4DR3070959030-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF 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: 6955.0 lumens
Efficiency: N/A
Efficacy: 104.4 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 (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

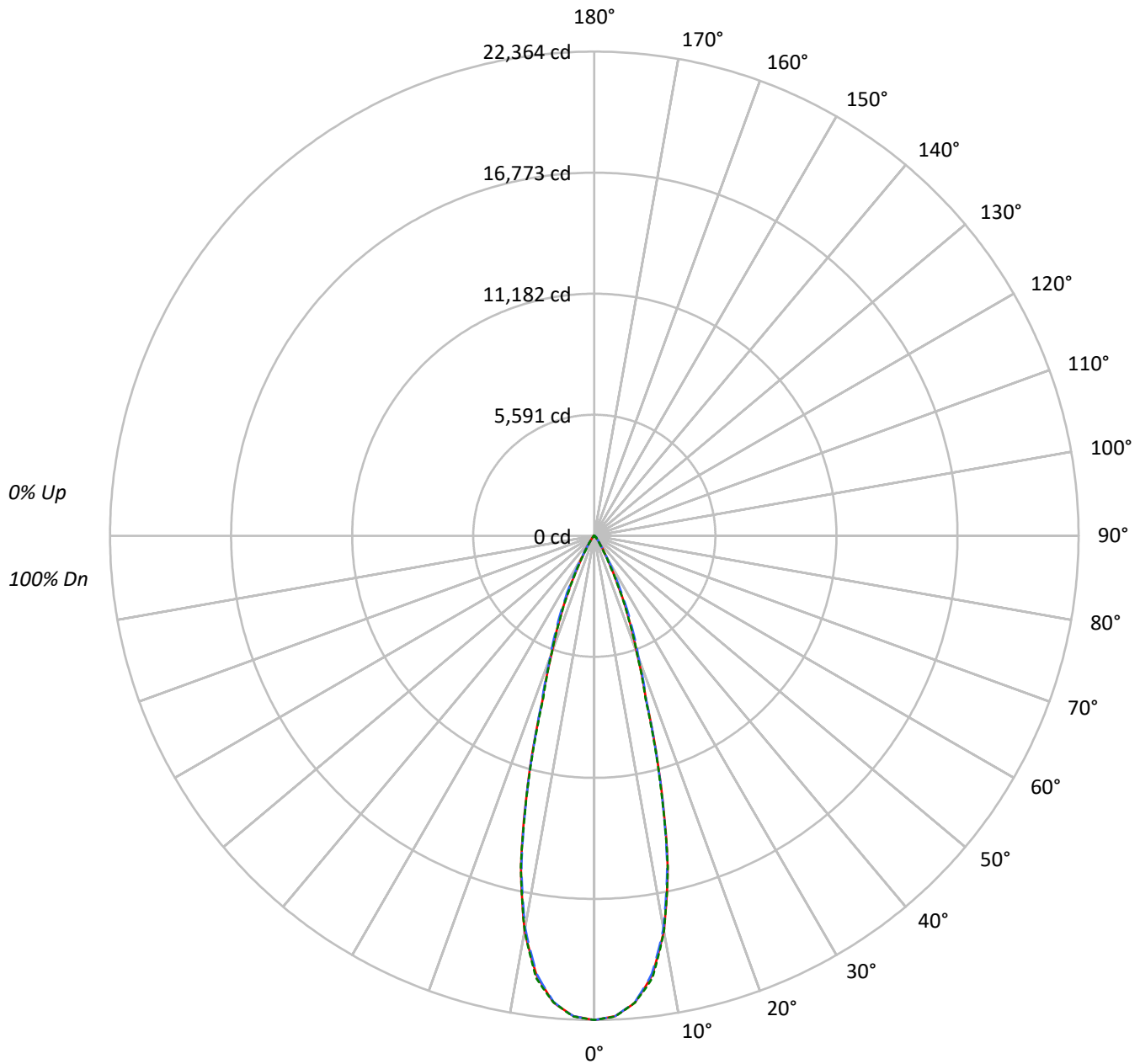


Downlight

TEST NUMBER: P752236

CATALOG NUMBER: LD4D70BD010-EU4DR3070959030-4LBDP1LI

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					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°	1711778	1711778	1711778
5°	1662642	1660698	1662726
10°	1440097	1429947	1439755
15°	939591	934543	929852
20°	467214	484743	466587
25°	235354	265395	230532
30°	94227	102677	82101
35°	43703	41862	35088
40°	18875	20953	17776
45°	13315	16519	13434
50°	4573	12027	4835
55°	2642	4978	2789
60°	1852	2189	1852
65°	1195	1195	1195
70°	739	492	739
75°	0	325	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 16519 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1966.5	28.3
10°-20°	3167.1	45.5
20°-30°	1368.6	19.7
30°-40°	311.9	4.5
40°-50°	107.1	1.5
50°-60°	26.2	0.4
60°-70°	6.8	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°	6502.3	93.5
0°-40°	6814.2	98.0
0°-60°	6947.5	99.9
0°-90°	6955.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6955.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	22364	22364	22364	22364	22364	
5°	21639	21618	21614	21659	21640	1968
15°	11857	11714	11793	11755	11734	3175
25°	2787	2892	3142	2818	2730	1334
35°	468	478	448	445	376	317
45°	123	153	153	153	124	87
55°	20	21	37	22	21	19
65°	7	7	7	7	7	6
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°	22363.5	22363.5	22363.5	22363.5	22363.5
2.5°	22215.3	22199.9	22208.7	22219.7	22224.1
5°	21638.9	21618.0	21613.6	21658.6	21640.0
7.5°	20476.1	20446.5	20401.5	20503.6	20599.1
10°	18528.3	18495.4	18397.7	18446.0	18523.9
12.5°	15652.7	15546.2	15544.0	15697.7	15676.9
15°	11857.0	11714.3	11793.3	11754.9	11734.1
17.5°	7973.5	7918.6	8024.0	7992.2	7854.9
20°	5735.8	5750.1	5951.0	5850.0	5728.1
22.5°	4185.5	4237.1	4475.3	4215.1	4119.6
25°	2786.7	2892.1	3142.4	2818.5	2729.6
27.5°	1713.9	1762.2	2015.9	1692.0	1643.7
30°	1066.1	1042.0	1161.7	997.0	928.9
32.5°	699.4	668.7	707.1	634.6	579.7
35°	467.7	477.6	448.0	444.7	375.5
37.5°	292.1	336.0	296.5	316.2	241.6
40°	188.9	243.8	209.7	231.7	177.9
42.5°	154.8	187.8	172.4	183.4	158.1
45°	123.0	152.6	152.6	152.6	124.1
47.5°	68.1	102.1	130.7	104.3	72.5
50°	38.4	51.6	101.0	53.8	40.6
52.5°	26.4	29.6	69.2	30.7	27.4
55°	19.8	20.9	37.3	22.0	20.9
57.5°	15.4	16.5	19.8	16.5	15.4
60°	12.1	12.1	14.3	13.2	12.1
62.5°	8.8	8.8	9.9	8.8	8.8
65°	6.6	6.6	6.6	6.6	6.6
67.5°	3.3	4.4	4.4	4.4	4.4
70°	3.3	2.2	2.2	2.2	3.3
72.5°	2.2	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)