

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: P752234

Luminaire Tested: LD4D70BD010-EU4DR3070959030-4LBDP1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P752234
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-EU4DR3070959030-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5332.7 lumens
Efficiency: N/A
Efficacy: 80.1 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 (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

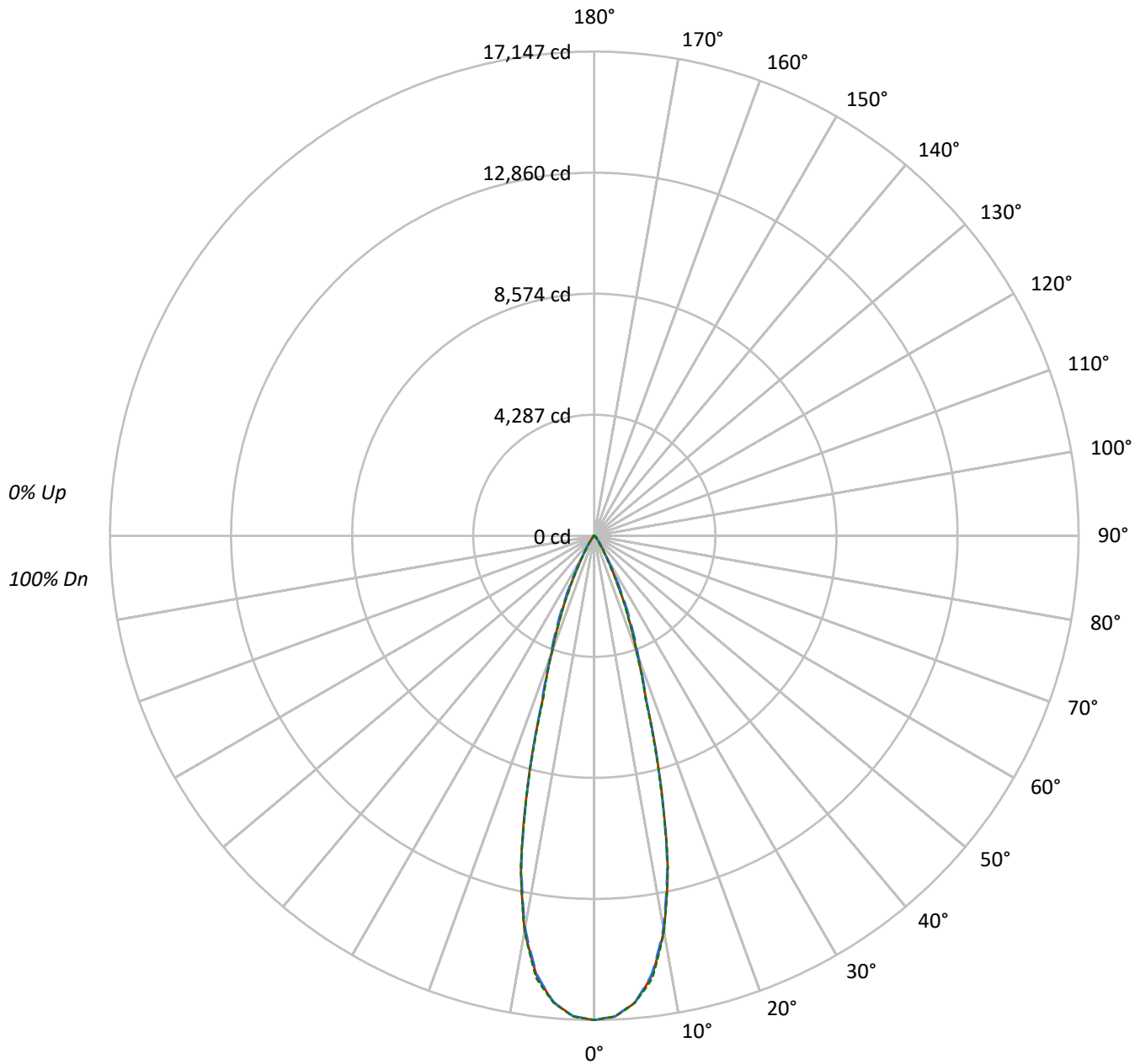


Downlight

TEST NUMBER: P752234

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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
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°	1312520	1312520	1312520
5°	1274836	1273353	1274905
10°	1104204	1096416	1103940
15°	720435	716568	712962
20°	358243	371683	357762
25°	180458	203497	176759
30°	72254	78724	62948
35°	33508	32097	26902
40°	14468	16067	13629
45°	10208	12665	10294
50°	3513	9229	3703
55°	2028	3817	2135
60°	1424	1669	1424
65°	924	924	924
70°	559	380	559
75°	0	237	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 12665 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1507.8	28.3
10°-20°	2428.4	45.5
20°-30°	1049.4	19.7
30°-40°	239.2	4.5
40°-50°	82.1	1.5
50°-60°	20.1	0.4
60°-70°	5.2	0.1
70°-80°	0.5	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°	4985.6	93.5
0°-40°	5224.8	98.0
0°-60°	5327.0	99.9
0°-90°	5332.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5332.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	17147	17147	17147	17147	17147	
5°	16592	16576	16572	16607	16593	1509
15°	9091	8982	9043	9013	8997	2434
25°	2137	2218	2410	2161	2093	1023
35°	359	366	344	341	288	243
45°	94	117	117	117	95	67
55°	15	16	29	17	16	15
65°	5	5	5	5	5	5
75°	0	0	1	0	0	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	

TEST NUMBER: P752234

CATALOG NUMBER: LD4D70BD010-EU4DR3070959030-4LBDP1B

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	17147.4	17147.4	17147.4	17147.4	17147.4
2.5°	17033.7	17021.9	17028.7	17037.1	17040.4
5°	16591.7	16575.7	16572.4	16606.9	16592.6
7.5°	15700.2	15677.4	15642.9	15721.2	15794.5
10°	14206.7	14181.4	14106.5	14143.5	14203.3
12.5°	12001.8	11920.1	11918.5	12036.3	12020.3
15°	9091.4	8982.0	9042.6	9013.1	8997.1
17.5°	6113.7	6071.6	6152.4	6128.0	6022.8
20°	4398.0	4408.9	4563.0	4485.5	4392.1
22.5°	3209.2	3248.8	3431.5	3232.0	3158.7
25°	2136.7	2217.5	2409.5	2161.1	2092.9
27.5°	1314.2	1351.2	1545.7	1297.3	1260.3
30°	817.5	798.9	890.7	764.4	712.2
32.5°	536.3	512.7	542.2	486.6	444.5
35°	358.6	366.2	343.5	341.0	287.9
37.5°	223.9	257.6	227.3	242.5	185.2
40°	144.8	186.9	160.8	177.6	136.4
42.5°	118.7	144.0	132.2	140.6	121.2
45°	94.3	117.0	117.0	117.0	95.1
47.5°	52.2	78.3	100.2	80.0	55.6
50°	29.5	39.6	77.5	41.3	31.1
52.5°	20.2	22.7	53.0	23.6	21.0
55°	15.2	16.0	28.6	16.8	16.0
57.5°	11.8	12.6	15.2	12.6	11.8
60°	9.3	9.3	10.9	10.1	9.3
62.5°	6.7	6.7	7.6	6.7	6.7
65°	5.1	5.1	5.1	5.1	5.1
67.5°	2.5	3.4	3.4	3.4	3.4
70°	2.5	1.7	1.7	1.7	2.5
72.5°	1.7	0.8	0.8	0.8	0.8
75°	0.0	0.0	0.8	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)