

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: P752235

Luminaire Tested: LD4D70BD010-EU4DR3070959030-4LBDP1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P752235
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-EU4DR3070959030-4LBDP1H
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-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: 6623.8 lumens
Efficiency: N/A
Efficacy: 99.5 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

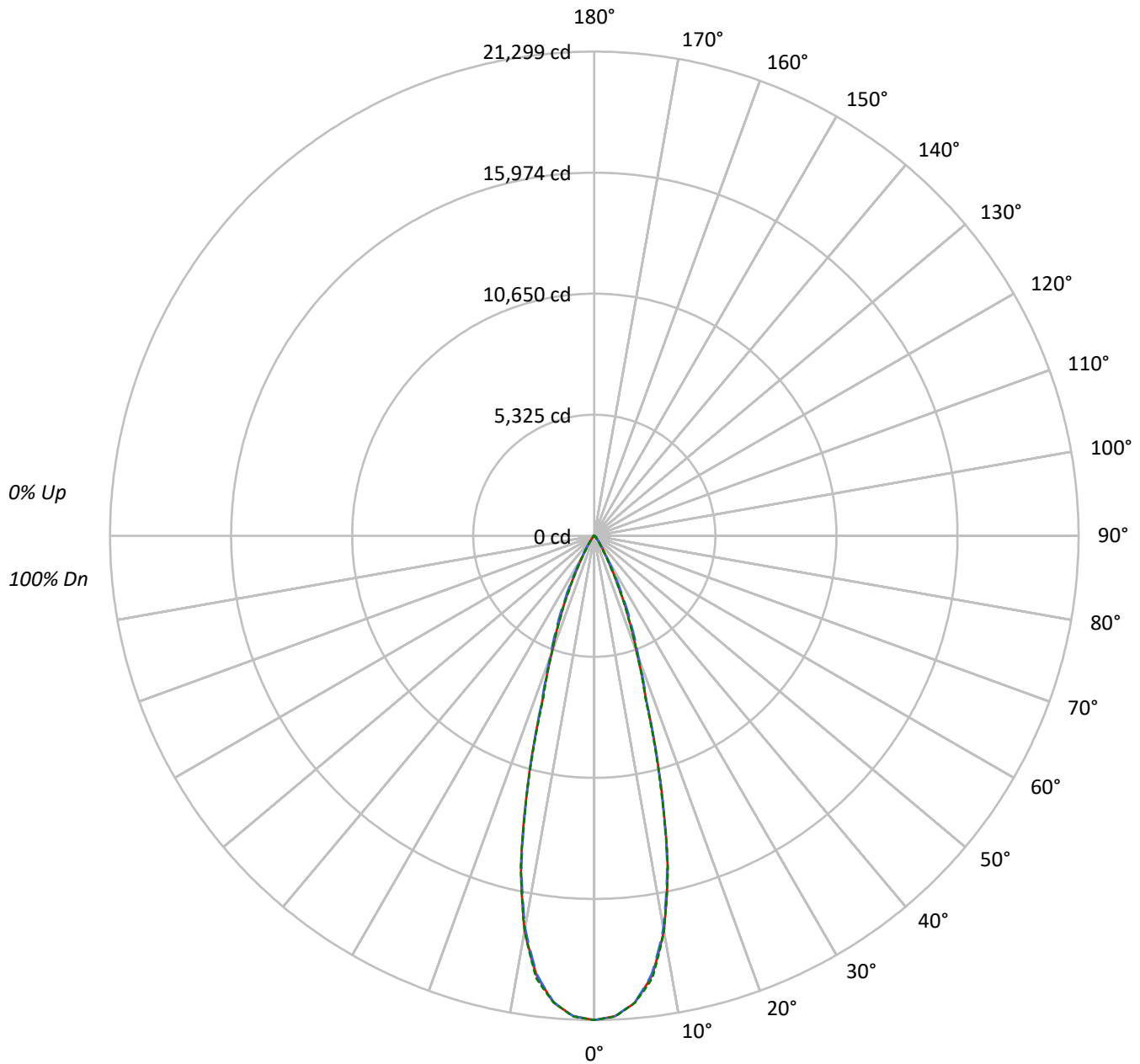


Downlight

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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°	1630267	1630267	1630267
5°	1583470	1581618	1583547
10°	1371521	1361852	1371195
15°	894850	890048	885570
20°	444968	461659	444374
25°	224147	252761	219553
30°	89746	97780	78194
35°	41629	39862	33415
40°	17976	19954	16927
45°	12676	15739	12795
50°	4358	11456	4608
55°	2509	4751	2656
60°	1760	2082	1760
65°	1141	1141	1141
70°	694	470	694
75°	0	296	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 15739 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1872.9	28.3
10°-20°	3016.3	45.5
20°-30°	1303.4	19.7
30°-40°	297.1	4.5
40°-50°	102.0	1.5
50°-60°	24.9	0.4
60°-70°	6.5	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°	6192.6	93.5
0°-40°	6489.7	98.0
0°-60°	6616.6	99.9
0°-90°	6623.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6623.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	21299	21299	21299	21299	21299	
5°	20608	20589	20584	20627	20610	1874
15°	11292	11156	11232	11195	11175	3024
25°	2654	2754	2993	2684	2600	1270
35°	446	455	427	424	358	302
45°	117	145	145	145	118	83
55°	19	20	36	21	20	18
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	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	21298.6	21298.6	21298.6	21298.6	21298.6
2.5°	21157.4	21142.8	21151.2	21161.6	21165.8
5°	20608.5	20588.6	20584.4	20627.3	20609.5
7.5°	19501.1	19472.8	19430.0	19527.2	19618.2
10°	17646.0	17614.6	17521.6	17567.6	17641.8
12.5°	14907.4	14805.9	14803.8	14950.2	14930.4
15°	11292.4	11156.5	11231.8	11195.2	11175.3
17.5°	7593.8	7541.5	7641.9	7611.6	7480.9
20°	5462.7	5476.3	5667.6	5571.4	5455.4
22.5°	3986.2	4035.3	4262.2	4014.4	3923.4
25°	2654.0	2754.3	2992.8	2684.3	2599.6
27.5°	1632.3	1678.3	1919.9	1611.4	1565.4
30°	1015.4	992.4	1106.3	949.5	884.7
32.5°	666.1	636.8	673.4	604.4	552.1
35°	445.5	454.9	426.6	423.5	357.6
37.5°	278.2	320.0	282.3	301.2	230.1
40°	179.9	232.1	199.7	220.6	169.4
42.5°	147.4	178.8	164.2	174.6	150.6
45°	117.1	145.4	145.4	145.4	118.2
47.5°	64.8	97.2	124.4	99.3	69.0
50°	36.6	49.1	96.2	51.2	38.7
52.5°	25.1	28.2	65.9	29.3	26.1
55°	18.8	19.9	35.6	20.9	19.9
57.5°	14.6	15.7	18.8	15.7	14.6
60°	11.5	11.5	13.6	12.5	11.5
62.5°	8.4	8.4	9.4	8.4	8.4
65°	6.3	6.3	6.3	6.3	6.3
67.5°	3.1	4.2	4.2	4.2	4.2
70°	3.1	2.1	2.1	2.1	3.1
72.5°	2.1	1.0	1.0	1.0	1.0
75°	0.0	0.0	1.0	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)