

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: P753041

Luminaire Tested: LD4D75BD010-EU4DR3070959040-4LBDP1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P753041
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: LD4D75BD010-EU4DR3070959040-4LBDP1H
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7405.4 lumens
Efficiency: N/A
Efficacy: 102.3 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): 72.4
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

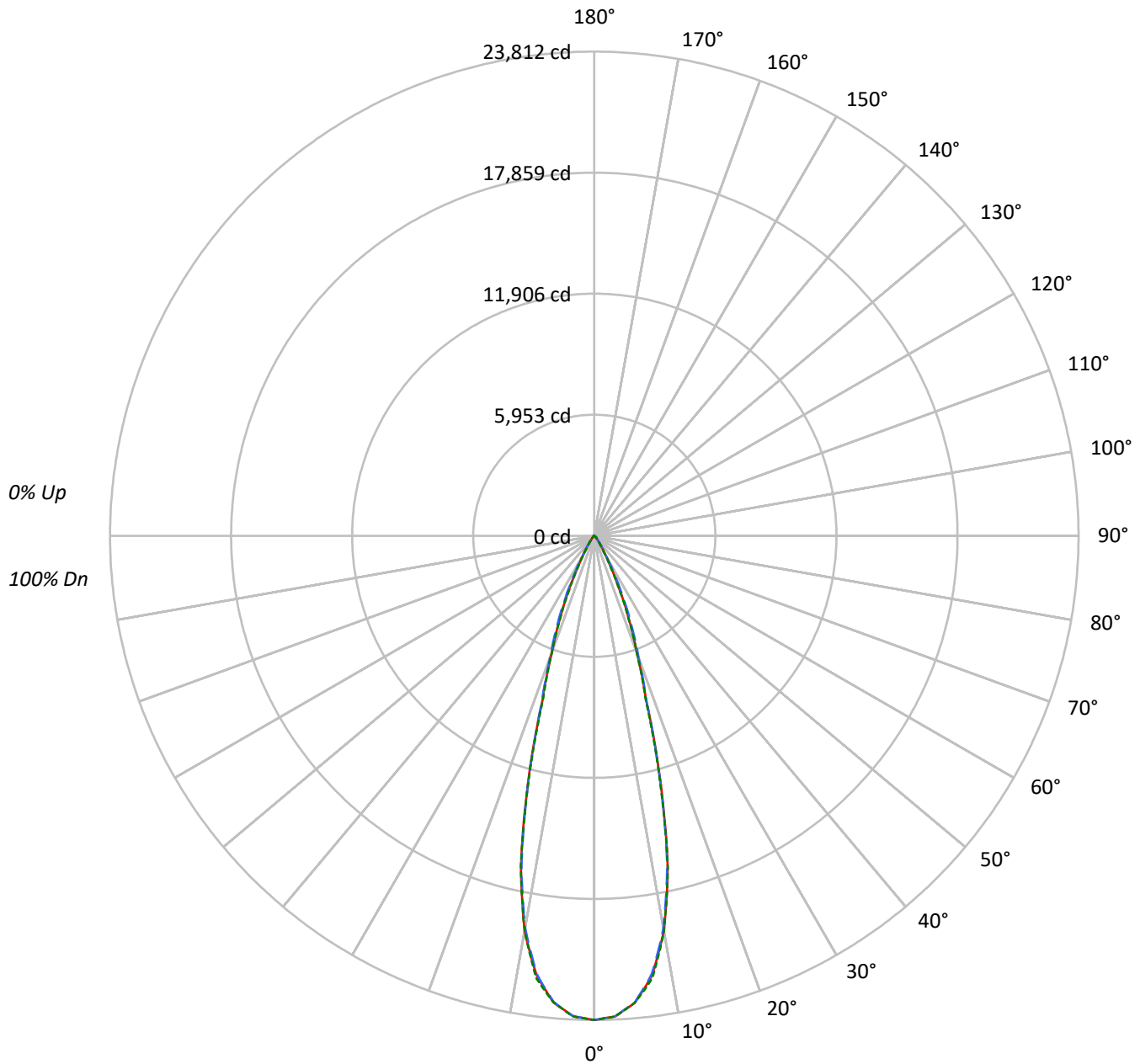


Downlight

TEST NUMBER: P753041

CATALOG NUMBER: LD4D75BD010-EU4DR3070959040-4LBDP1H

Luminous Intensity Polar Plot



TEST NUMBER: P753041

CATALOG NUMBER: LD4D75BD010-EU4DR3070959040-4LBDP1H

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°	1822636	1822636	1822636
5°	1770312	1768245	1770404
10°	1533359	1522547	1532993
15°	1000442	995069	990069
20°	497475	516136	496807
25°	250590	282582	245455
30°	100334	109323	87412
35°	46534	44572	37358
40°	20094	22312	18925
45°	14170	17590	14300
50°	4870	12813	5156
55°	2802	5298	2963
60°	1975	2327	1975
65°	1268	1268	1268
70°	783	515	783
75°	0	355	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 17590 cd/sqm



TEST NUMBER: P753041

CATALOG NUMBER: LD4D75BD010-EU4DR3070959040-4LBDP1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2093.9	28.3
10°-20°	3372.2	45.5
20°-30°	1457.2	19.7
30°-40°	332.1	4.5
40°-50°	114.0	1.5
50°-60°	27.9	0.4
60°-70°	7.2	0.1
70°-80°	0.8	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°	6923.3	93.5
0°-40°	7255.5	98.0
0°-60°	7397.4	99.9
0°-90°	7405.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7405.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	23812	23812	23812	23812	23812	
5°	23040	23018	23013	23061	23041	2096
15°	12625	12473	12557	12516	12494	3380
25°	2967	3079	3346	3001	2906	1420
35°	498	508	477	474	400	338
45°	131	162	162	162	132	93
55°	21	22	40	23	22	20
65°	7	7	7	7	7	7
75°	0	0	1	0	0	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



TEST NUMBER: P753041

CATALOG NUMBER: LD4D75BD010-EU4DR3070959040-4LBDP1H

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	23811.8	23811.8	23811.8	23811.8	23811.8
2.5°	23654.0	23637.6	23647.0	23658.7	23663.3
5°	23040.2	23018.0	23013.3	23061.3	23041.4
7.5°	21802.2	21770.6	21722.7	21831.4	21933.1
10°	19728.2	19693.1	19589.1	19640.5	19723.5
12.5°	16666.4	16553.0	16550.7	16714.3	16692.1
15°	12624.9	12472.9	12557.1	12516.2	12494.0
17.5°	8489.9	8431.4	8543.6	8509.7	8363.6
20°	6107.3	6122.5	6336.4	6228.9	6099.1
22.5°	4456.5	4511.5	4765.2	4488.1	4386.4
25°	2967.1	3079.4	3345.9	3001.0	2906.3
27.5°	1824.9	1876.4	2146.4	1801.6	1750.1
30°	1135.2	1109.5	1236.9	1061.5	989.0
32.5°	744.7	712.0	752.9	675.7	617.3
35°	498.0	508.5	477.0	473.5	399.8
37.5°	311.0	357.7	315.7	336.7	257.2
40°	201.1	259.5	223.3	246.7	189.4
42.5°	164.8	199.9	183.5	195.2	168.3
45°	130.9	162.5	162.5	162.5	132.1
47.5°	72.5	108.7	139.1	111.1	77.2
50°	40.9	54.9	107.6	57.3	43.3
52.5°	28.1	31.6	73.7	32.7	29.2
55°	21.0	22.2	39.7	23.4	22.2
57.5°	16.4	17.5	21.0	17.5	16.4
60°	12.9	12.9	15.2	14.0	12.9
62.5°	9.4	9.4	10.5	9.4	9.4
65°	7.0	7.0	7.0	7.0	7.0
67.5°	3.5	4.7	4.7	4.7	4.7
70°	3.5	2.3	2.3	2.3	3.5
72.5°	2.3	1.2	1.2	1.2	1.2
75°	0.0	0.0	1.2	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)