

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: P752990

Luminaire Tested: LD4D75BD010-EU4DR3070959024-4LBDP1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P752990
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-EU4DR3070959024-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6298.9 lumens
Efficiency: N/A
Efficacy: 87.0 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

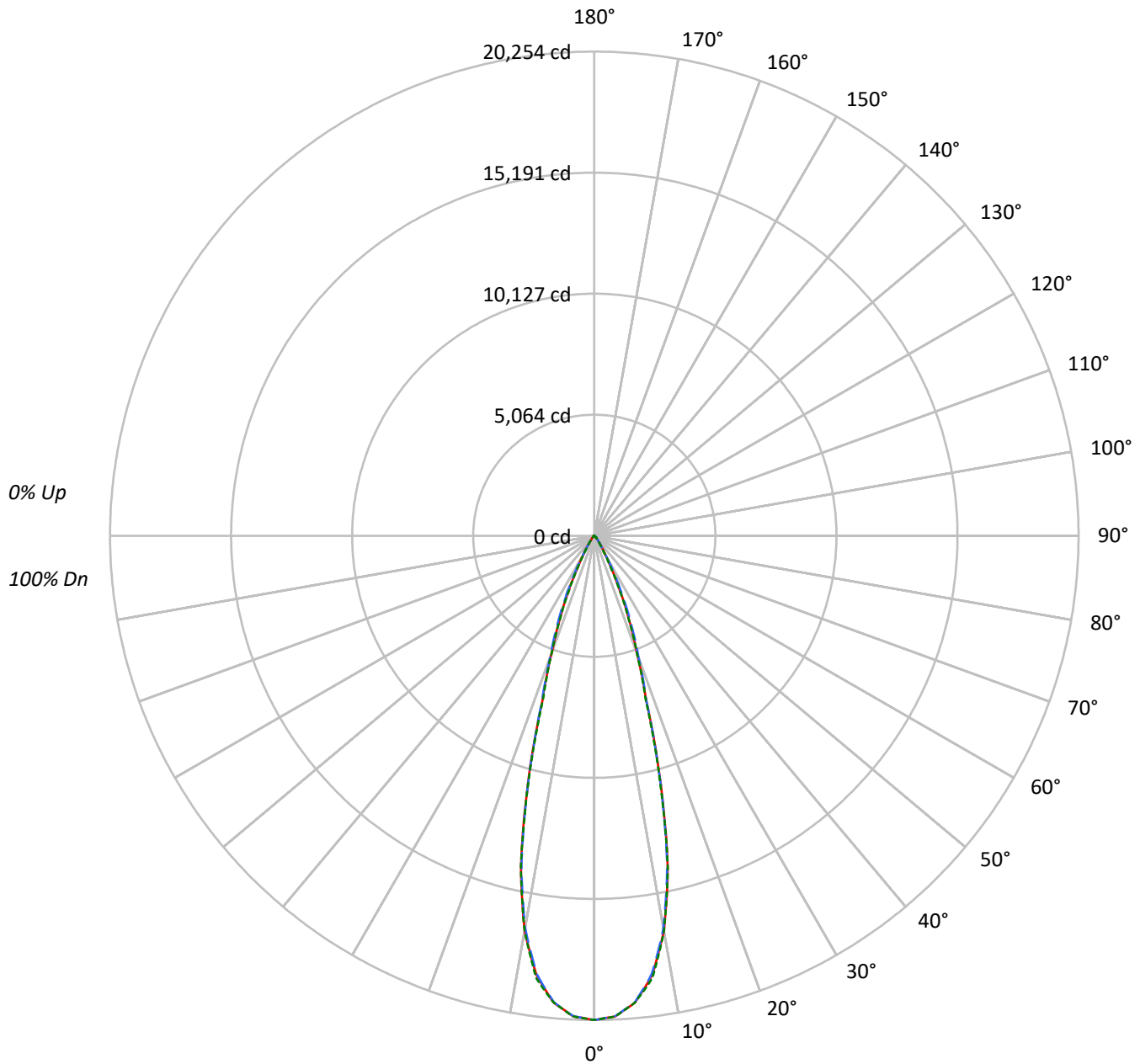


Downlight

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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	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1550310	1550310	1550310
5°	1505805	1504053	1505881
10°	1304259	1295064	1303948
15°	850965	846392	842137
20°	423146	439022	422576
25°	213151	240363	208784
30°	85344	92990	74358
35°	39582	37910	31780
40°	17086	18975	16097
45°	12059	14960	12167
50°	4144	10896	4382
55°	2389	4511	2522
60°	1669	1975	1669
65°	1087	1087	1087
70°	671	448	671
75°	0	296	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 14960 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1781.0	28.3
10°-20°	2868.4	45.5
20°-30°	1239.5	19.7
30°-40°	282.5	4.5
40°-50°	97.0	1.5
50°-60°	23.7	0.4
60°-70°	6.2	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°	5888.9	93.5
0°-40°	6171.4	98.0
0°-60°	6292.1	99.9
0°-90°	6298.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6298.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	20254	20254	20254	20254	20254	
5°	19598	19579	19575	19616	19599	1783
15°	10739	10609	10681	10646	10627	2875
25°	2524	2619	2846	2553	2472	1208
35°	424	433	406	403	340	287
45°	111	138	138	138	112	79
55°	18	19	34	20	19	17
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°	20254.0	20254.0	20254.0	20254.0	20254.0
2.5°	20119.8	20105.9	20113.8	20123.8	20127.8
5°	19597.7	19578.8	19574.9	19615.6	19598.7
7.5°	18544.7	18517.8	18477.0	18569.5	18656.0
10°	16780.6	16750.8	16662.3	16706.0	16776.6
12.5°	14176.2	14079.8	14077.8	14217.0	14198.1
15°	10738.6	10609.3	10680.9	10646.1	10627.2
17.5°	7221.4	7171.7	7267.1	7238.3	7114.0
20°	5194.8	5207.7	5389.7	5298.2	5187.8
22.5°	3790.7	3837.4	4053.2	3817.5	3731.0
25°	2523.8	2619.3	2846.0	2552.6	2472.1
27.5°	1552.3	1596.0	1825.7	1532.4	1488.6
30°	965.6	943.7	1052.1	902.9	841.3
32.5°	633.4	605.6	640.4	574.8	525.0
35°	423.6	432.6	405.7	402.7	340.1
37.5°	264.5	304.3	268.5	286.4	218.8
40°	171.0	220.8	189.9	209.8	161.1
42.5°	140.2	170.0	156.1	166.1	143.2
45°	111.4	138.2	138.2	138.2	112.4
47.5°	61.7	92.5	118.3	94.5	65.6
50°	34.8	46.7	91.5	48.7	36.8
52.5°	23.9	26.8	62.6	27.8	24.9
55°	17.9	18.9	33.8	19.9	18.9
57.5°	13.9	14.9	17.9	14.9	13.9
60°	10.9	10.9	12.9	11.9	10.9
62.5°	8.0	8.0	8.9	8.0	8.0
65°	6.0	6.0	6.0	6.0	6.0
67.5°	3.0	4.0	4.0	4.0	4.0
70°	3.0	2.0	2.0	2.0	3.0
72.5°	2.0	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)