

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: P753001

Luminaire Tested: LD4D75BD010-EU4DR3070959027-4LBDP1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P753001
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-EU4DR3070959027-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5471.0 lumens
Efficiency: N/A
Efficacy: 75.6 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

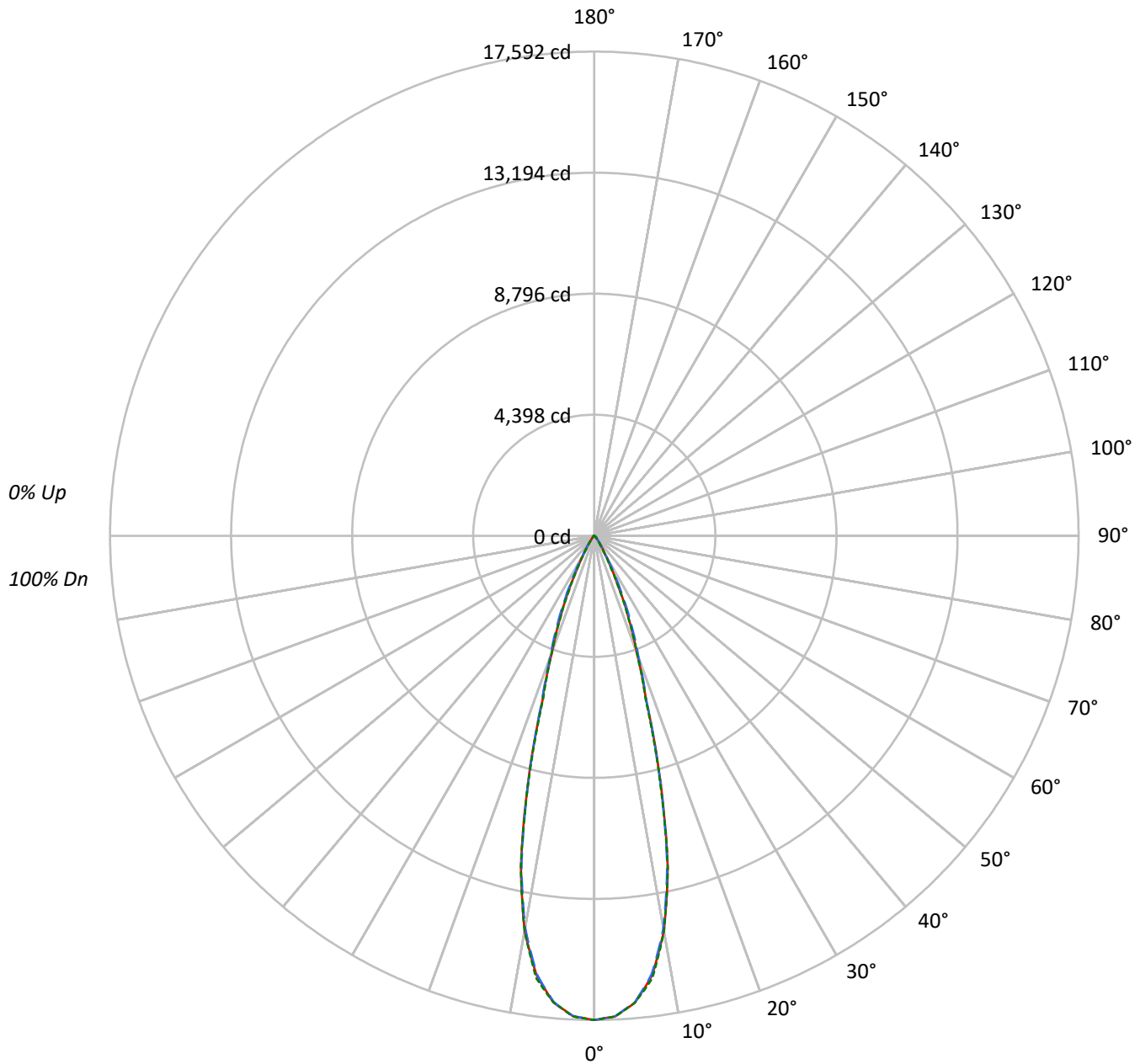


Downlight

TEST NUMBER: P753001

CATALOG NUMBER: LD4D75BD010-EU4DR3070959027-4LBDP1B

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°	1346551	1346551	1346551
5°	1307891	1306362	1307960
10°	1132830	1124848	1132566
15°	739120	735150	731450
20°	367528	381319	367040
25°	185137	208768	181345
30°	74128	80766	64583
35°	34377	32929	27603
40°	14848	16487	13979
45°	10468	13001	10565
50°	3596	9467	3811
55°	2068	3923	2189
60°	1454	1715	1454
65°	942	942	942
70°	582	380	582
75°	0	266	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 13001 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1546.9	28.3
10°-20°	2491.4	45.5
20°-30°	1076.6	19.7
30°-40°	245.4	4.5
40°-50°	84.3	1.5
50°-60°	20.6	0.4
60°-70°	5.3	0.1
70°-80°	0.6	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°	5114.9	93.5
0°-40°	5360.3	98.0
0°-60°	5465.1	99.9
0°-90°	5471.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5471.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	17592	17592	17592	17592	17592	
5°	17022	17006	17002	17038	17023	1548
15°	9327	9215	9277	9247	9230	2497
25°	2192	2275	2472	2217	2147	1049
35°	368	376	352	350	295	250
45°	97	120	120	120	98	69
55°	16	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	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	17592.0	17592.0	17592.0	17592.0	17592.0
2.5°	17475.4	17463.3	17470.2	17478.8	17482.3
5°	17021.9	17005.5	17002.0	17037.5	17022.8
7.5°	16107.2	16083.9	16048.5	16128.8	16204.0
10°	14575.0	14549.1	14472.3	14510.3	14571.6
12.5°	12313.0	12229.2	12227.5	12348.4	12332.0
15°	9327.2	9214.9	9277.1	9246.8	9230.4
17.5°	6272.2	6229.0	6312.0	6286.9	6179.0
20°	4512.0	4523.2	4681.3	4601.8	4506.0
22.5°	3292.4	3333.0	3520.5	3315.8	3240.6
25°	2192.1	2275.0	2471.9	2217.1	2147.2
27.5°	1348.2	1386.2	1585.8	1331.0	1293.0
30°	838.7	819.7	913.8	784.2	730.7
32.5°	550.2	526.0	556.2	499.2	456.0
35°	367.9	375.7	352.4	349.8	295.4
37.5°	229.7	264.3	233.2	248.7	190.0
40°	148.6	191.7	165.0	182.2	139.9
42.5°	121.8	147.7	135.6	144.2	124.4
45°	96.7	120.1	120.1	120.1	97.6
47.5°	53.5	80.3	102.8	82.1	57.0
50°	30.2	40.6	79.5	42.3	32.0
52.5°	20.7	23.3	54.4	24.2	21.6
55°	15.5	16.4	29.4	17.3	16.4
57.5°	12.1	13.0	15.5	13.0	12.1
60°	9.5	9.5	11.2	10.4	9.5
62.5°	6.9	6.9	7.8	6.9	6.9
65°	5.2	5.2	5.2	5.2	5.2
67.5°	2.6	3.5	3.5	3.5	3.5
70°	2.6	1.7	1.7	1.7	2.6
72.5°	1.7	0.9	0.9	0.9	0.9
75°	0.0	0.0	0.9	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)