

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: P753014

Luminaire Tested: LD4D75BD010-EU4DR3070959030-4LBDP1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P753014
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-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: 5636.4 lumens
Efficiency: N/A
Efficacy: 77.9 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

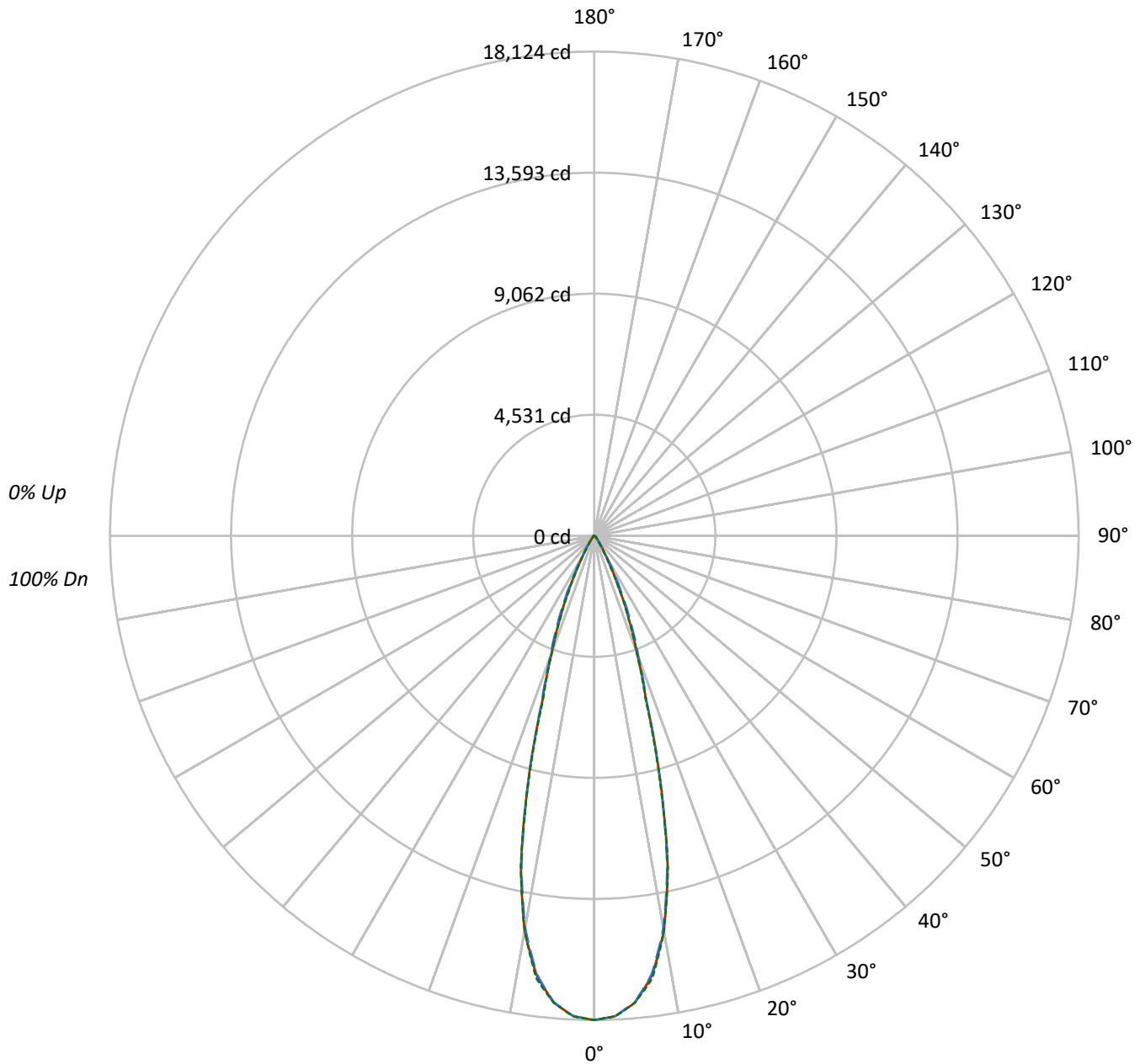


Downlight

TEST NUMBER: P753014

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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°	1387242	1387242	1387242
5°	1347415	1345840	1347484
10°	1167068	1158837	1166788
15°	761451	757362	753559
20°	378631	392845	378126
25°	190728	215076	186826
30°	76364	83205	66536
35°	35424	33920	28434
40°	15288	16986	14399
45°	10792	13390	10879
50°	3703	9753	3918
55°	2135	4044	2255
60°	1500	1776	1500
65°	960	960	960
70°	604	403	604
75°	0	266	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 13390 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1593.7	28.3
10°-20°	2566.7	45.5
20°-30°	1109.1	19.7
30°-40°	252.8	4.5
40°-50°	86.8	1.5
50°-60°	21.2	0.4
60°-70°	5.5	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°	5269.5	93.5
0°-40°	5522.3	98.0
0°-60°	5630.3	99.9
0°-90°	5636.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5636.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	18124	18124	18124	18124	18124	
5°	17536	17519	17516	17552	17537	1595
15°	9609	9493	9557	9526	9509	2573
25°	2258	2344	2547	2284	2212	1081
35°	379	387	363	360	304	257
45°	100	124	124	124	100	71
55°	16	17	30	18	17	16
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°	18123.6	18123.6	18123.6	18123.6	18123.6
2.5°	18003.5	17991.0	17998.1	18007.0	18010.6
5°	17536.3	17519.4	17515.8	17552.3	17537.2
7.5°	16594.0	16570.0	16533.5	16616.2	16693.7
10°	15015.5	14988.8	14909.6	14948.8	15011.9
12.5°	12685.1	12598.8	12597.0	12721.6	12704.7
15°	9609.0	9493.3	9557.4	9526.3	9509.4
17.5°	6461.8	6417.3	6502.7	6476.9	6365.7
20°	4648.3	4659.9	4822.8	4740.9	4642.1
22.5°	3391.9	3433.8	3626.9	3416.0	3338.6
25°	2258.3	2343.8	2546.6	2284.1	2212.1
27.5°	1389.0	1428.1	1633.7	1371.2	1332.0
30°	864.0	844.4	941.4	807.9	752.8
32.5°	566.8	541.9	573.0	514.3	469.8
35°	379.1	387.1	363.0	360.4	304.3
37.5°	236.7	272.3	240.2	256.3	195.8
40°	153.0	197.5	170.0	187.7	144.1
42.5°	125.5	152.2	139.7	148.6	128.1
45°	99.7	123.7	123.7	123.7	100.5
47.5°	55.2	82.8	105.9	84.5	58.7
50°	31.1	41.8	81.9	43.6	32.9
52.5°	21.4	24.0	56.1	24.9	22.2
55°	16.0	16.9	30.3	17.8	16.9
57.5°	12.5	13.3	16.0	13.3	12.5
60°	9.8	9.8	11.6	10.7	9.8
62.5°	7.1	7.1	8.0	7.1	7.1
65°	5.3	5.3	5.3	5.3	5.3
67.5°	2.7	3.6	3.6	3.6	3.6
70°	2.7	1.8	1.8	1.8	2.7
72.5°	1.8	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)