

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: P756134

Luminaire Tested: LD4D95BD010-EU4DR3070959030-4LBDP1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P756134
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: LD4D95BD010-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: 6921.3 lumens
Efficiency: N/A
Efficacy: 69.8 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): 99.2
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

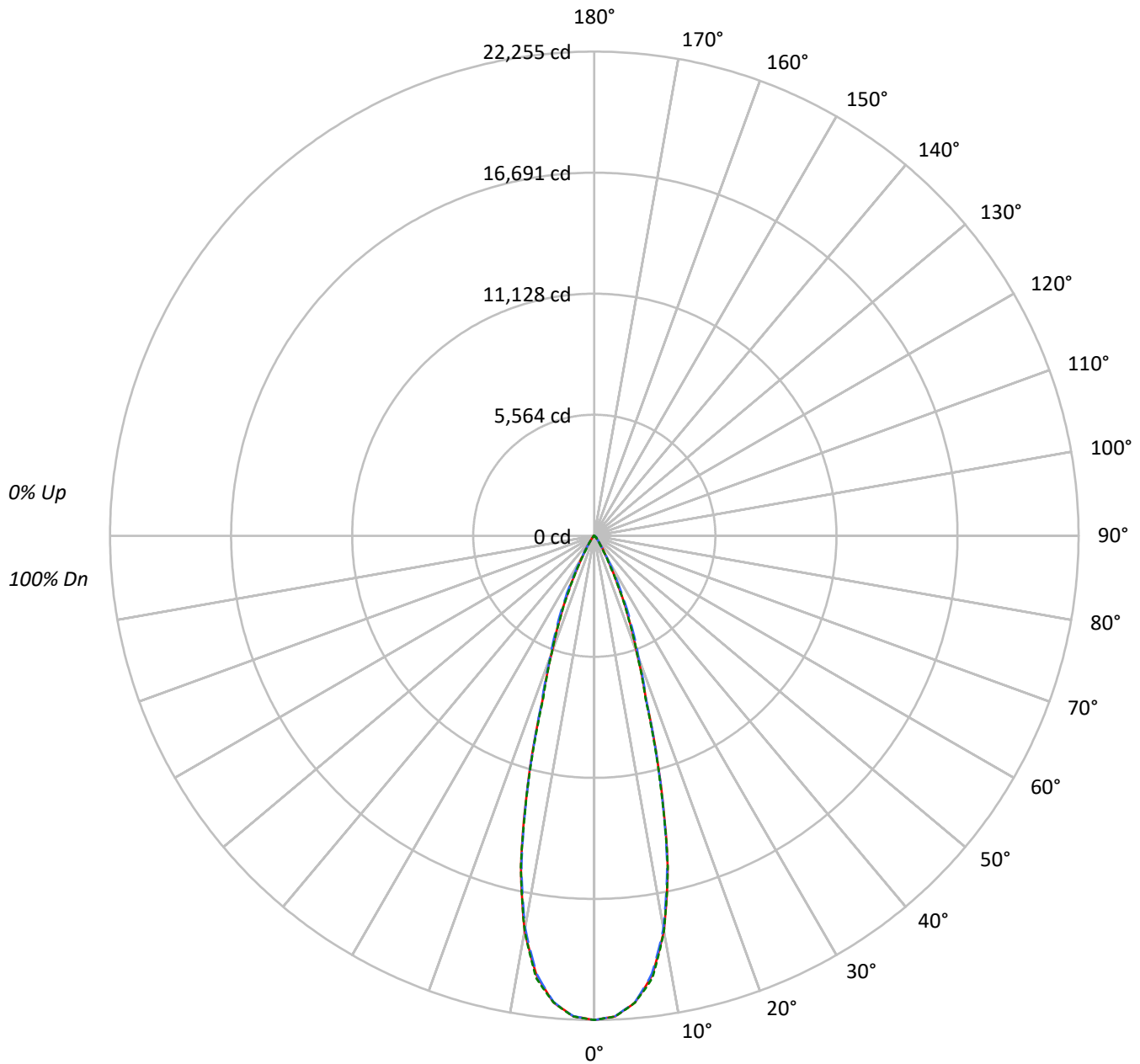


Downlight

TEST NUMBER: P756134

CATALOG NUMBER: LD4D95BD010-EU4DR3070959030-4LBDP1B

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°	1703504	1703504	1703504
5°	1654605	1652668	1654682
10°	1433133	1423029	1432799
15°	935050	930026	925351
20°	464958	482397	464331
25°	234214	264112	229417
30°	93776	102173	81703
35°	43497	41657	34919
40°	18775	20853	17686
45°	13250	16443	13369
50°	4549	11968	4811
55°	2629	4964	2776
60°	1837	2174	1837
65°	1195	1195	1195
70°	739	492	739
75°	0	325	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 16443 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1957.0	28.3
10°-20°	3151.8	45.5
20°-30°	1362.0	19.7
30°-40°	310.4	4.5
40°-50°	106.6	1.5
50°-60°	26.0	0.4
60°-70°	6.8	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°	6470.8	93.5
0°-40°	6781.2	98.0
0°-60°	6913.9	99.9
0°-90°	6921.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6921.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	22255	22255	22255	22255	22255	
5°	21534	21514	21509	21554	21535	1959
15°	11800	11658	11736	11698	11677	3160
25°	2773	2878	3127	2805	2716	1327
35°	466	475	446	442	374	316
45°	122	152	152	152	124	87
55°	20	21	37	22	21	19
65°	7	7	7	7	7	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°	22255.4	22255.4	22255.4	22255.4	22255.4
2.5°	22107.9	22092.6	22101.3	22112.3	22116.6
5°	21534.3	21513.5	21509.1	21553.9	21535.3
7.5°	20377.1	20347.6	20302.8	20404.4	20499.5
10°	18438.7	18405.9	18308.7	18356.8	18434.4
12.5°	15577.0	15471.1	15468.9	15621.8	15601.1
15°	11799.7	11657.6	11736.3	11698.1	11677.3
17.5°	7934.9	7880.3	7985.2	7953.5	7816.9
20°	5708.1	5722.3	5922.2	5821.7	5700.4
22.5°	4165.2	4216.6	4453.7	4194.7	4099.7
25°	2773.2	2878.1	3127.2	2804.9	2716.4
27.5°	1705.7	1753.7	2006.1	1683.8	1635.7
30°	1061.0	1036.9	1156.0	992.1	924.4
32.5°	696.0	665.4	703.7	631.6	576.9
35°	465.5	475.3	445.8	442.5	373.7
37.5°	290.6	334.4	295.0	314.7	240.4
40°	187.9	242.6	208.7	230.6	177.0
42.5°	154.1	186.8	171.5	182.5	157.3
45°	122.4	151.9	151.9	151.9	123.5
47.5°	67.7	101.6	130.0	103.8	72.1
50°	38.2	51.4	100.5	53.5	40.4
52.5°	26.2	29.5	68.8	30.6	27.3
55°	19.7	20.8	37.2	21.9	20.8
57.5°	15.3	16.4	19.7	16.4	15.3
60°	12.0	12.0	14.2	13.1	12.0
62.5°	8.7	8.7	9.8	8.7	8.7
65°	6.6	6.6	6.6	6.6	6.6
67.5°	3.3	4.4	4.4	4.4	4.4
70°	3.3	2.2	2.2	2.2	3.3
72.5°	2.2	1.1	1.1	1.1	1.1
75°	0.0	0.0	1.1	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)