

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: P1178291

Luminaire Tested: LDA2B058050R2050D010 2LBDC1MW

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1178291
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2206-683-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/17/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDA2B058050R2050D010 2LBDC1MW
Description: 500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 80 CRI LEDS AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

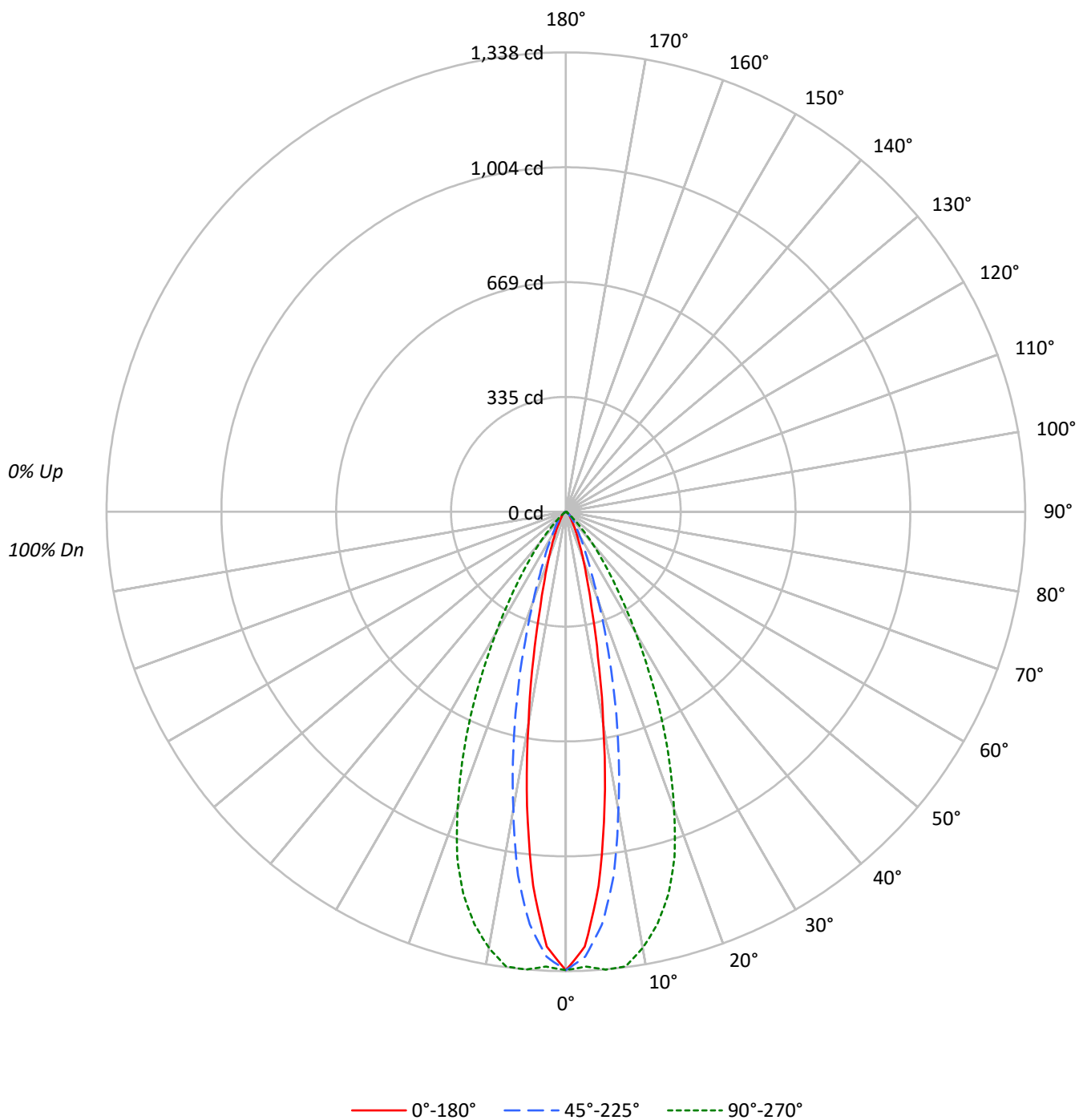
Lumens per Lamp: N/A
Luminaire Lumens: 479.9 lumens
Efficiency: N/A
Efficacy: 68.6 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.8 / 0.47
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 7
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

TEST NUMBER: P1178291

CATALOG NUMBER: LDA2B058050R2050D010 2LBDC1MW

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			0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	114	112	109	107	112	109	107	106	105	104	102		102	100	99		98	97	96	95
2	109	105	101	98	107	103	100	97	100	97	95		97	95	93		94	93	91	90
3	105	99	95	91	103	98	94	90	95	92	89		93	90	88		90	88	86	85
4	100	94	89	85	99	93	88	85	91	87	84		89	85	83		87	84	82	80
5	96	89	84	80	95	88	83	80	86	82	79		85	81	78		83	80	78	76
6	92	85	80	76	91	84	79	76	83	78	75		81	77	75		80	77	74	73
7	89	81	76	72	88	80	75	72	79	75	71		78	74	71		77	73	71	70
8	85	77	72	69	84	77	72	69	76	71	68		75	71	68		74	70	68	67
9	82	74	69	66	81	74	69	66	73	68	65		72	68	65		71	68	65	64
10	79	71	66	63	79	71	66	63	70	66	63		69	65	62		69	65	62	61

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	658737	658737	658737
5°	541552	597564	662887
10°	314360	441557	646305
15°	146437	274996	588964
20°	77179	145012	484073
25°	42733	78497	357049
30°	25066	45974	230893
35°	16081	30837	136839
40°	12559	20802	75996
45°	10884	12419	33770
50°	9824	8520	12357
55°	6709	6193	5763
60°	4934	4440	4440
65°	3852	3269	3852
70°	3173	3173	3173
75°	3241	3241	3241
80°	3125	3125	3125
85°	3396	3396	3396

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 33770 cd/sqm

TEST NUMBER: P1178291

CATALOG NUMBER: LDA2B058050R2050D010 2LBDC1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.3	22.2
10°-20°	174.1	36.3
20°-30°	116.1	24.2
30°-40°	52.3	10.9
40°-50°	19.2	4.0
50°-60°	6.7	1.4
60°-70°	3.1	0.7
70°-80°	1.7	0.3
80°-90°	0.5	0.1
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°	396.5	82.6
0°-40°	448.8	93.5
0°-60°	474.7	98.9
0°-90°	479.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	479.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1335	1335	1335	1335	1335	
5°	1094	1128	1207	1294	1338	89
15°	287	337	538	910	1153	86
25°	78	91	144	393	656	38
35°	27	30	51	111	227	18
45°	16	16	18	28	48	12
55°	8	7	7	6	7	7
65°	3	3	3	3	3	3
75°	2	2	2	2	2	2
85°	1	1	1	1	1	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1335.2	1335.2	1335.2	1335.2	1335.2
2.5°	1267.8	1281.2	1296.8	1312.9	1325.7
5°	1093.5	1127.5	1206.6	1294.5	1338.5
7.5°	864.7	914.8	1068.5	1242.2	1335.2
10°	627.5	691.5	881.4	1151.4	1290.1
12.5°	431.5	491.6	707.1	1036.7	1230.5
15°	286.7	336.9	538.4	909.8	1153.1
17.5°	202.1	236.1	391.4	771.1	1053.4
20°	147.0	169.8	276.2	635.3	922.0
22.5°	106.9	124.2	196.5	507.8	789.0
25°	78.5	91.3	144.2	393.1	655.9
27.5°	58.5	68.5	108.0	298.4	522.8
30°	44.0	52.3	80.7	219.9	405.3
32.5°	34.0	39.5	61.8	157.0	306.8
35°	26.7	30.1	51.2	110.8	227.2
37.5°	22.3	24.5	42.3	77.4	166.5
40°	19.5	21.2	32.3	55.1	118.0
42.5°	17.3	18.4	23.4	39.5	76.8
45°	15.6	15.6	17.8	27.8	48.4
47.5°	14.5	12.8	13.9	19.5	28.4
50°	12.8	10.6	11.1	13.4	16.1
52.5°	10.0	8.9	8.9	8.9	9.5
55°	7.8	7.2	7.2	6.1	6.7
57.5°	6.1	6.1	5.6	5.0	5.6
60°	5.0	5.0	4.5	3.9	4.5
62.5°	3.9	3.9	3.3	3.3	3.9
65°	3.3	3.3	2.8	2.8	3.3
67.5°	2.8	2.8	2.8	2.2	2.8
70°	2.2	2.2	2.2	2.2	2.2
72.5°	1.7	1.7	2.2	1.7	1.7
75°	1.7	1.7	1.7	1.7	1.7
77.5°	1.1	1.1	1.1	1.1	1.1
80°	1.1	1.1	1.1	1.1	1.1
82.5°	0.6	0.6	0.6	0.6	0.6
85°	0.6	0.6	0.6	0.6	0.6
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)