

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: P1178603

Luminaire Tested: LDA2B059730R2050D010 2LBDC1MW

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1178603
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: LDA2B059730R2050D010 2LBDC1MW
Description: 500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 97 CRI LEDS AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

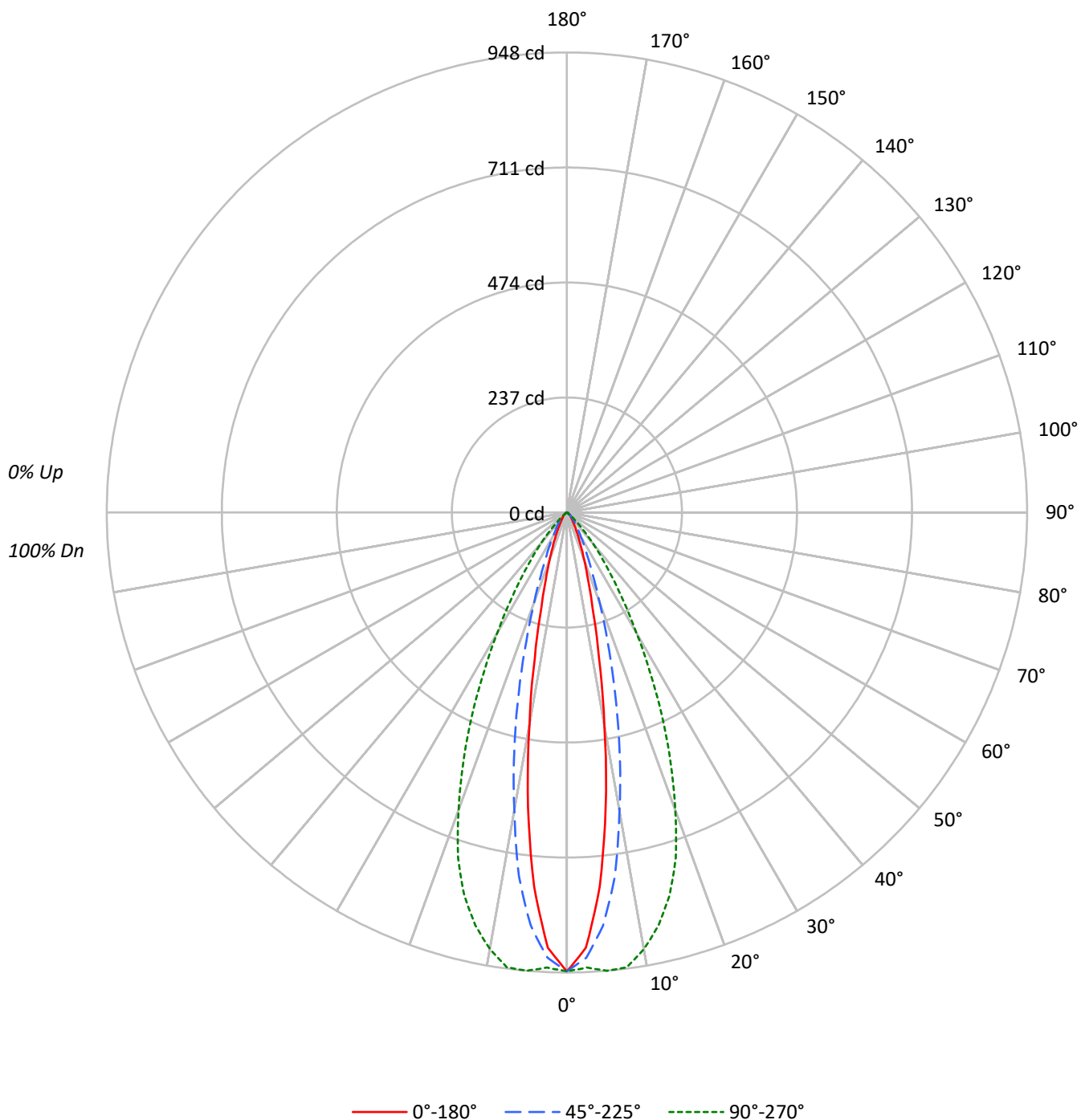
Lumens per Lamp: N/A
Luminaire Lumens: 339.9 lumens
Efficiency: N/A
Efficacy: 48.6 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.8 / 0.47
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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

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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			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°	466424	466424	466424
5°	383469	423089	469394
10°	222582	312657	457639
15°	103685	194704	417040
20°	54655	102695	342789
25°	30267	55580	252803
30°	17717	32586	163500
35°	11383	21863	96907
40°	8888	14748	53842
45°	7675	8791	23932
50°	6985	6064	8750
55°	4731	4387	4043
60°	3454	3158	3158
65°	2802	2335	2802
70°	2308	2308	2308
75°	2287	2287	2287
80°	2273	2273	2273
85°	2264	2264	2264

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 23932 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.3	22.1
10°-20°	123.3	36.3
20°-30°	82.2	24.2
30°-40°	37.1	10.9
40°-50°	13.6	4.0
50°-60°	4.7	1.4
60°-70°	2.3	0.7
70°-80°	1.2	0.3
80°-90°	0.3	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°	280.8	82.6
0°-40°	317.8	93.5
0°-60°	336.1	98.9
0°-90°	339.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	339.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	945	945	945	945	945	
5°	774	798	854	917	948	63
15°	203	238	381	644	816	61
25°	56	65	102	278	464	27
35°	19	21	36	78	161	13
45°	11	11	13	20	34	9
55°	6	5	5	4	5	5
65°	2	2	2	2	2	2
75°	1	1	1	1	1	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°	945.4	945.4	945.4	945.4	945.4
2.5°	897.7	907.2	918.2	929.7	938.7
5°	774.3	798.4	854.3	916.6	947.8
7.5°	612.3	647.8	756.6	879.6	945.4
10°	444.3	489.7	624.1	815.3	913.5
12.5°	305.5	348.1	500.7	734.1	871.3
15°	203.0	238.5	381.2	644.2	816.5
17.5°	143.1	167.2	277.2	546.0	745.9
20°	104.1	120.2	195.6	449.8	652.9
22.5°	75.7	87.9	139.2	359.6	558.7
25°	55.6	64.7	102.1	278.3	464.4
27.5°	41.4	48.5	76.5	211.3	370.2
30°	31.1	37.1	57.2	155.7	287.0
32.5°	24.0	28.0	43.8	111.2	217.2
35°	18.9	21.3	36.3	78.5	160.9
37.5°	15.8	17.3	30.0	54.8	117.9
40°	13.8	15.0	22.9	39.0	83.6
42.5°	12.2	13.0	16.6	28.0	54.4
45°	11.0	11.0	12.6	19.7	34.3
47.5°	10.3	9.1	9.9	13.8	20.1
50°	9.1	7.5	7.9	9.5	11.4
52.5°	7.1	6.3	6.3	6.3	6.7
55°	5.5	5.1	5.1	4.3	4.7
57.5°	4.3	4.3	3.9	3.5	3.9
60°	3.5	3.5	3.2	2.8	3.2
62.5°	2.8	2.8	2.4	2.4	2.8
65°	2.4	2.4	2.0	2.0	2.4
67.5°	2.0	2.0	2.0	1.6	2.0
70°	1.6	1.6	1.6	1.6	1.6
72.5°	1.2	1.2	1.6	1.2	1.2
75°	1.2	1.2	1.2	1.2	1.2
77.5°	0.8	0.8	0.8	0.8	0.8
80°	0.8	0.8	0.8	0.8	0.8
82.5°	0.4	0.4	0.4	0.4	0.4
85°	0.4	0.4	0.4	0.4	0.4
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)