

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: P1179062

Luminaire Tested: LDA2B109727R2050D010 2LBD1MW

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1179062
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: LDA2B109727R2050D010 2LBD1MW
Description: 1000 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 97 CRI LEDS AND 2700K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

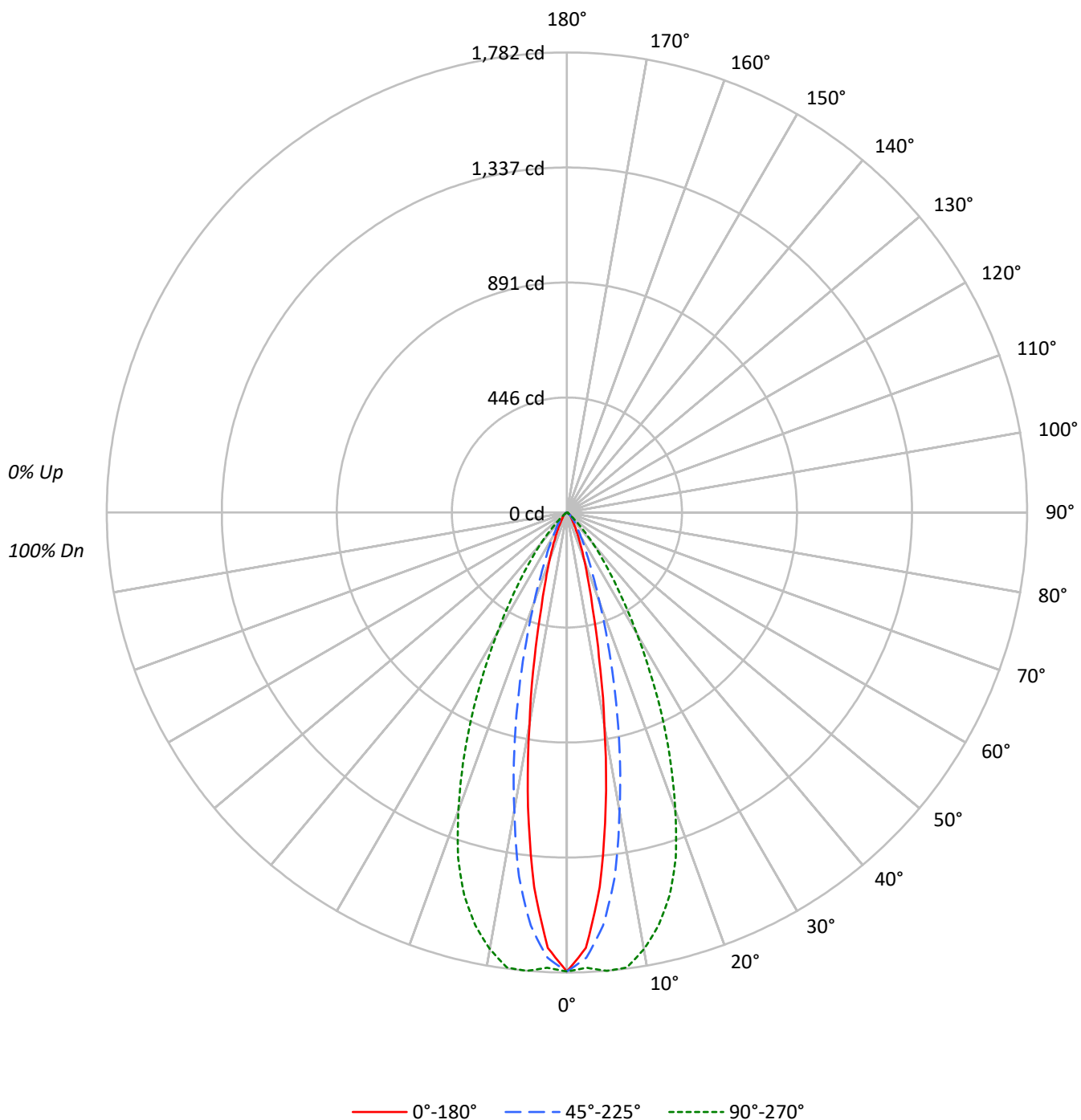
Lumens per Lamp: N/A
Luminaire Lumens: 639.0 lumens
Efficiency: N/A
Efficacy: 63.9 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.8 / 0.47
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	877099	877099	877099
5°	721079	795613	882628
10°	418563	587942	860521
15°	195010	366168	784179
20°	102747	193052	644573
25°	56886	104518	475394
30°	33384	61241	307459
35°	21441	41076	182191
40°	16681	27694	101243
45°	14513	16536	45003
50°	13125	11360	16502
55°	8946	8257	7655
60°	6611	5822	5822
65°	5137	4319	5137
70°	4327	4327	4327
75°	4194	4194	4194
80°	4262	4262	4262
85°	3962	3962	3962

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 45003 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.5	22.2
10°-20°	231.8	36.3
20°-30°	154.6	24.2
30°-40°	69.7	10.9
40°-50°	25.5	4.0
50°-60°	8.9	1.4
60°-70°	4.2	0.7
70°-80°	2.2	0.3
80°-90°	0.6	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°	527.9	82.6
0°-40°	597.6	93.5
0°-60°	632.1	98.9
0°-90°	639.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	639.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1778	1778	1778	1778	1778	
5°	1456	1501	1606	1724	1782	119
15°	382	448	717	1211	1535	114
25°	104	122	192	523	873	50
35°	36	40	68	148	302	24
45°	21	21	24	37	64	16
55°	10	10	10	8	9	10
65°	4	4	4	4	4	4
75°	2	2	2	2	2	2
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1777.8	1777.8	1777.8	1777.8	1777.8
2.5°	1688.1	1705.8	1726.6	1748.1	1765.2
5°	1456.0	1501.2	1606.5	1723.6	1782.2
7.5°	1151.3	1218.0	1422.7	1654.0	1777.8
10°	835.5	920.8	1173.6	1533.1	1717.7
12.5°	574.5	654.6	941.5	1380.4	1638.4
15°	381.8	448.5	716.9	1211.4	1535.3
17.5°	269.1	314.3	521.2	1026.8	1402.6
20°	195.7	226.1	367.7	845.9	1227.7
22.5°	142.3	165.3	261.7	676.1	1050.5
25°	104.5	121.6	192.0	523.4	873.3
27.5°	77.8	91.2	143.8	397.4	696.1
30°	58.6	69.7	107.5	292.8	539.7
32.5°	45.2	52.6	82.3	209.1	408.5
35°	35.6	40.0	68.2	147.5	302.5
37.5°	29.7	32.6	56.3	103.0	221.7
40°	25.9	28.2	43.0	73.4	157.2
42.5°	23.0	24.5	31.1	52.6	102.3
45°	20.8	20.8	23.7	37.1	64.5
47.5°	19.3	17.1	18.5	25.9	37.8
50°	17.1	14.1	14.8	17.8	21.5
52.5°	13.3	11.9	11.9	11.9	12.6
55°	10.4	9.6	9.6	8.2	8.9
57.5°	8.2	8.2	7.4	6.7	7.4
60°	6.7	6.7	5.9	5.2	5.9
62.5°	5.2	5.2	4.4	4.4	5.2
65°	4.4	4.4	3.7	3.7	4.4
67.5°	3.7	3.7	3.7	3.0	3.7
70°	3.0	3.0	3.0	3.0	3.0
72.5°	2.2	2.2	3.0	2.2	2.2
75°	2.2	2.2	2.2	2.2	2.2
77.5°	1.5	1.5	1.5	1.5	1.5
80°	1.5	1.5	1.5	1.5	1.5
82.5°	0.7	0.7	0.7	0.7	0.7
85°	0.7	0.7	0.7	0.7	0.7
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)