

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: P1179066

Luminaire Tested: LDA2B109727R2050D010 2LBDC1MB

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1179066
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 2LBDC1MB
Description: 1000 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 97 CRI LEDS AND 2700K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

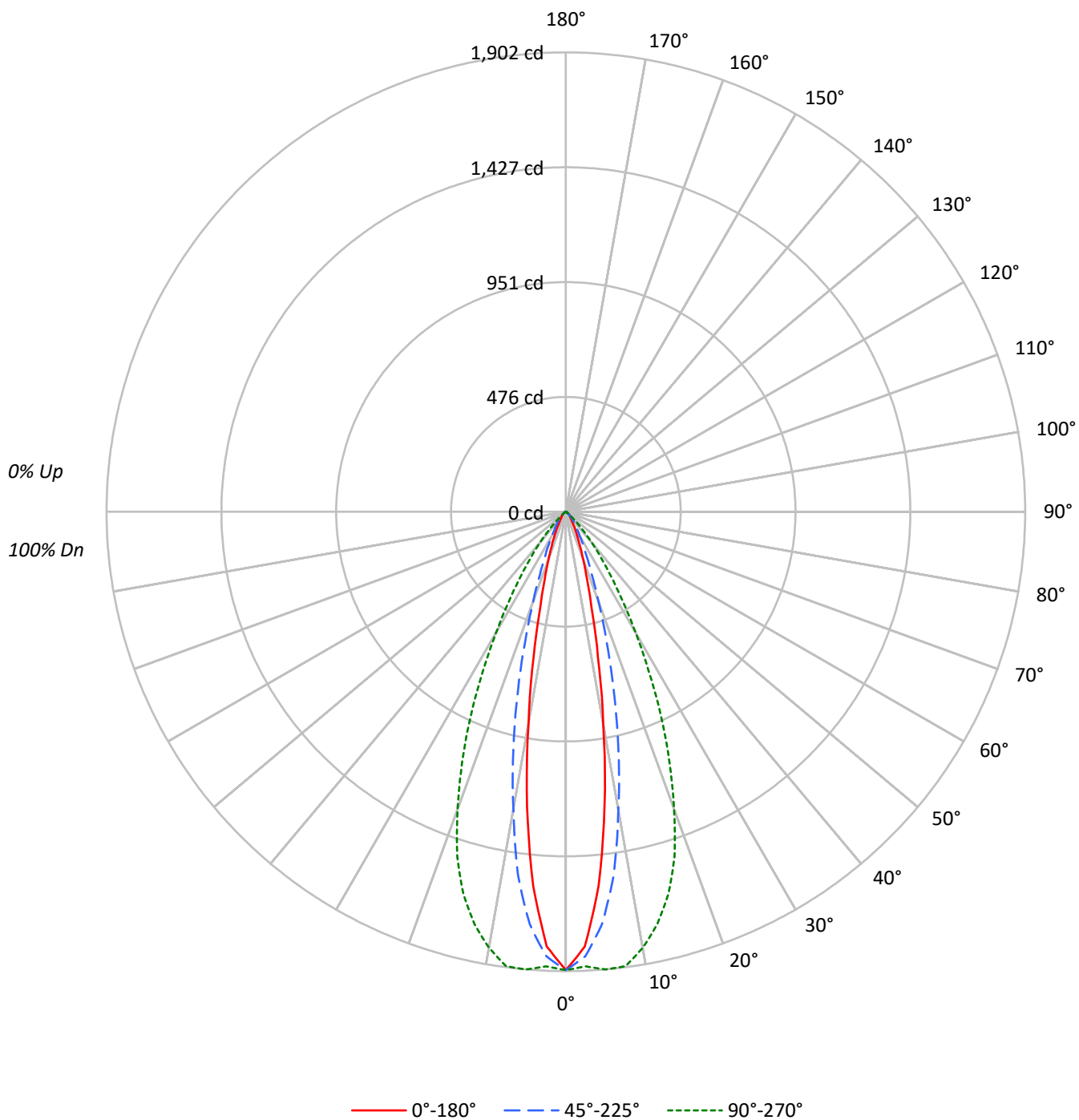
Lumens per Lamp: N/A
Luminaire Lumens: 682.1 lumens
Efficiency: N/A
Efficacy: 68.2 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.8 / 0.47
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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°	936154	936154	936154
5°	769662	849248	942107
10°	446767	627518	918483
15°	208137	390838	837043
20°	109678	206072	687992
25°	60751	111540	507457
30°	35605	65343	328196
35°	22887	43846	194477
40°	17840	29561	108070
45°	15489	17652	48003
50°	13969	12127	17577
55°	9548	8860	8171
60°	7006	6216	6216
65°	5487	4670	5487
70°	4616	4616	4616
75°	4575	4575	4575
80°	4546	4546	4546
85°	4529	4529	4529

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 48003 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.1	22.1
10°-20°	247.4	36.3
20°-30°	165.0	24.2
30°-40°	74.4	10.9
40°-50°	27.2	4.0
50°-60°	9.5	1.4
60°-70°	4.5	0.7
70°-80°	2.4	0.3
80°-90°	0.7	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°	563.5	82.6
0°-40°	637.9	93.5
0°-60°	674.6	98.9
0°-90°	682.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	682.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1898	1898	1898	1898	1898	
5°	1554	1602	1715	1840	1902	127
15°	408	479	765	1293	1639	122
25°	112	130	205	559	932	54
35°	38	43	73	158	323	25
45°	22	22	25	40	69	17
55°	11	10	10	9	10	10
65°	5	5	4	4	5	5
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°	1897.5	1897.5	1897.5	1897.5	1897.5
2.5°	1801.8	1820.8	1842.9	1865.9	1884.1
5°	1554.1	1602.4	1714.8	1839.8	1902.3
7.5°	1228.9	1300.1	1518.5	1765.4	1897.5
10°	891.8	982.8	1252.6	1636.4	1833.4
12.5°	613.3	698.7	1005.0	1473.4	1748.8
15°	407.5	478.7	765.2	1293.0	1638.8
17.5°	287.2	335.5	556.3	1096.0	1497.1
20°	208.9	241.3	392.5	902.9	1310.4
22.5°	151.9	176.5	279.3	721.7	1121.3
25°	111.6	129.8	204.9	558.7	932.2
27.5°	83.1	97.3	153.5	424.1	743.0
30°	62.5	74.4	114.7	312.6	576.1
32.5°	48.3	56.2	87.8	223.1	436.0
35°	38.0	42.7	72.8	157.5	322.9
37.5°	31.7	34.8	60.1	110.0	236.6
40°	27.7	30.1	45.9	78.3	167.8
42.5°	24.5	26.1	33.2	56.2	109.2
45°	22.2	22.2	25.3	39.6	68.8
47.5°	20.6	18.2	19.8	27.7	40.4
50°	18.2	15.0	15.8	19.0	22.9
52.5°	14.2	12.7	12.7	12.7	13.5
55°	11.1	10.3	10.3	8.7	9.5
57.5°	8.7	8.7	7.9	7.1	7.9
60°	7.1	7.1	6.3	5.5	6.3
62.5°	5.5	5.5	4.7	4.7	5.5
65°	4.7	4.7	4.0	4.0	4.7
67.5°	4.0	4.0	4.0	3.2	4.0
70°	3.2	3.2	3.2	3.2	3.2
72.5°	2.4	2.4	3.2	2.4	2.4
75°	2.4	2.4	2.4	2.4	2.4
77.5°	1.6	1.6	1.6	1.6	1.6
80°	1.6	1.6	1.6	1.6	1.6
82.5°	0.8	0.8	0.8	0.8	0.8
85°	0.8	0.8	0.8	0.8	0.8
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)