

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: P1179029

Luminaire Tested: LDA2B109050R2050D010 2LBDC1MW

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1179029
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: LDA2B109050R2050D010 2LBDC1MW
Description: 1000 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

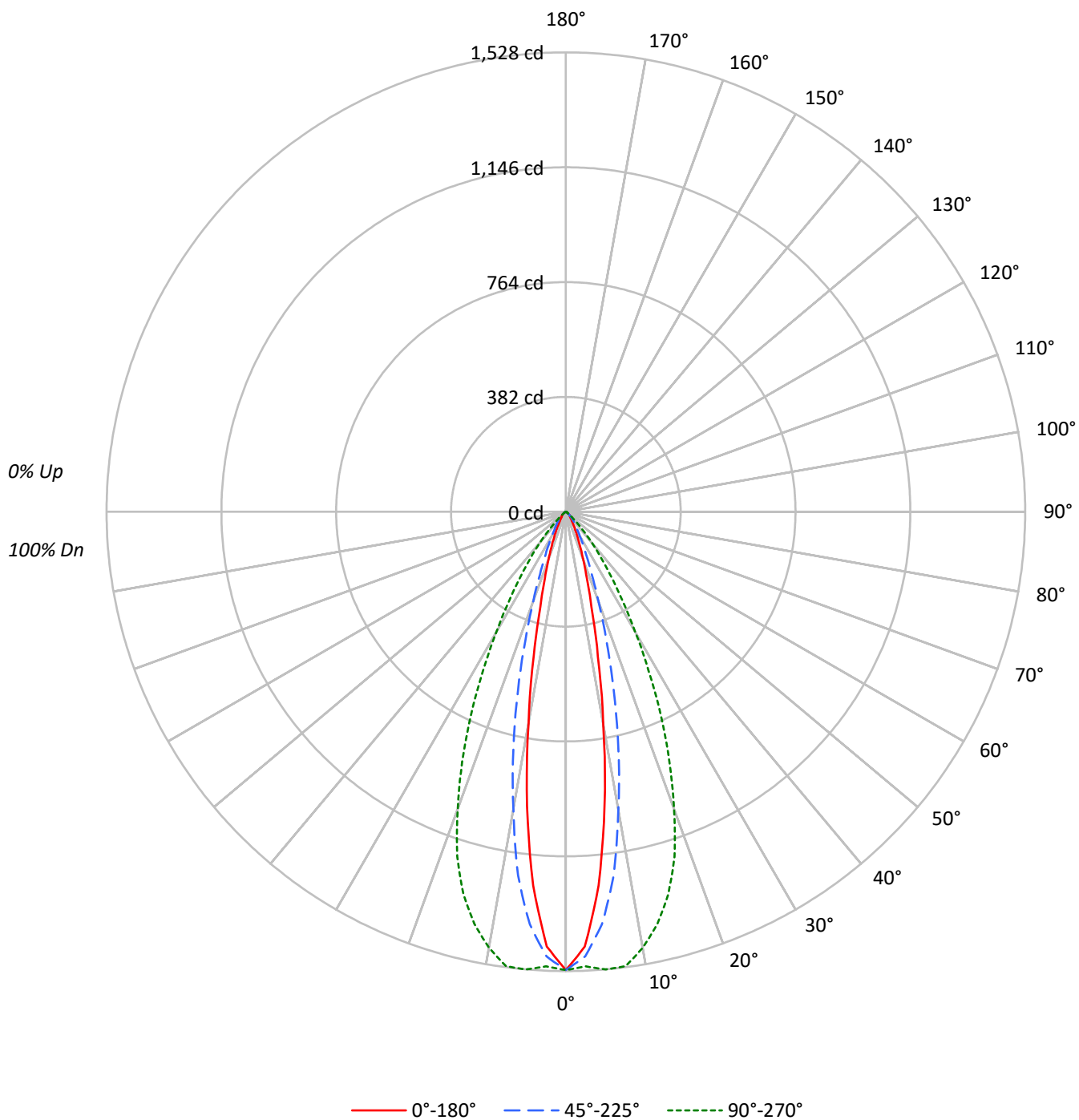
Lumens per Lamp: N/A
Luminaire Lumens: 547.9 lumens
Efficiency: N/A
Efficacy: 54.8 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.8 / 0.47
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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			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°	751982	751982	751982
5°	618216	682152	756736
10°	358847	504079	737782
15°	167174	313917	672372
20°	88099	165540	552641
25°	48775	89602	407620
30°	28598	52525	263593
35°	18370	35234	156172
40°	14298	23765	86816
45°	12419	14164	38584
50°	11206	9748	14123
55°	7655	7139	6537
60°	5624	5032	5032
65°	4436	3736	4436
70°	3606	3606	3606
75°	3622	3622	3622
80°	3694	3694	3694
85°	3396	3396	3396

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 38584 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.4	22.2
10°-20°	198.7	36.3
20°-30°	132.5	24.2
30°-40°	59.8	10.9
40°-50°	21.9	4.0
50°-60°	7.7	1.4
60°-70°	3.6	0.7
70°-80°	1.9	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°	452.6	82.6
0°-40°	512.4	93.5
0°-60°	541.9	98.9
0°-90°	547.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	547.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1524	1524	1524	1524	1524	
5°	1248	1287	1377	1478	1528	102
15°	327	384	615	1039	1316	98
25°	90	104	165	449	749	43
35°	30	34	58	126	259	20
45°	18	18	20	32	55	14
55°	9	8	8	7	8	8
65°	4	4	3	3	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°	1524.2	1524.2	1524.2	1524.2	1524.2
2.5°	1447.3	1462.5	1480.3	1498.8	1513.4
5°	1248.3	1287.1	1377.4	1477.8	1528.0
7.5°	987.1	1044.3	1219.7	1418.1	1524.2
10°	716.3	789.4	1006.2	1314.4	1472.7
12.5°	492.6	561.2	807.2	1183.5	1404.7
15°	327.3	384.5	614.6	1038.6	1316.4
17.5°	230.7	269.5	446.8	880.3	1202.6
20°	167.8	193.9	315.3	725.2	1052.6
22.5°	122.0	141.7	224.4	579.7	900.7
25°	89.6	104.2	164.6	448.7	748.8
27.5°	66.7	78.2	123.3	340.7	596.8
30°	50.2	59.7	92.2	251.1	462.7
32.5°	38.8	45.1	70.6	179.2	350.2
35°	30.5	34.3	58.5	126.5	259.3
37.5°	25.4	28.0	48.3	88.4	190.0
40°	22.2	24.2	36.9	62.9	134.8
42.5°	19.7	21.0	26.7	45.1	87.7
45°	17.8	17.8	20.3	31.8	55.3
47.5°	16.5	14.6	15.9	22.2	32.4
50°	14.6	12.1	12.7	15.3	18.4
52.5°	11.4	10.2	10.2	10.2	10.8
55°	8.9	8.3	8.3	7.0	7.6
57.5°	7.0	7.0	6.4	5.7	6.4
60°	5.7	5.7	5.1	4.4	5.1
62.5°	4.4	4.4	3.8	3.8	4.4
65°	3.8	3.8	3.2	3.2	3.8
67.5°	3.2	3.2	3.2	2.5	3.2
70°	2.5	2.5	2.5	2.5	2.5
72.5°	1.9	1.9	2.5	1.9	1.9
75°	1.9	1.9	1.9	1.9	1.9
77.5°	1.3	1.3	1.3	1.3	1.3
80°	1.3	1.3	1.3	1.3	1.3
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)