

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: P1179016

Luminaire Tested: LDA2B109050R2040D010 2LBDC1MW

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1179016
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2206-683-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/17/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDA2B109050R2040D010 2LBDC1MW
Description: 1000 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

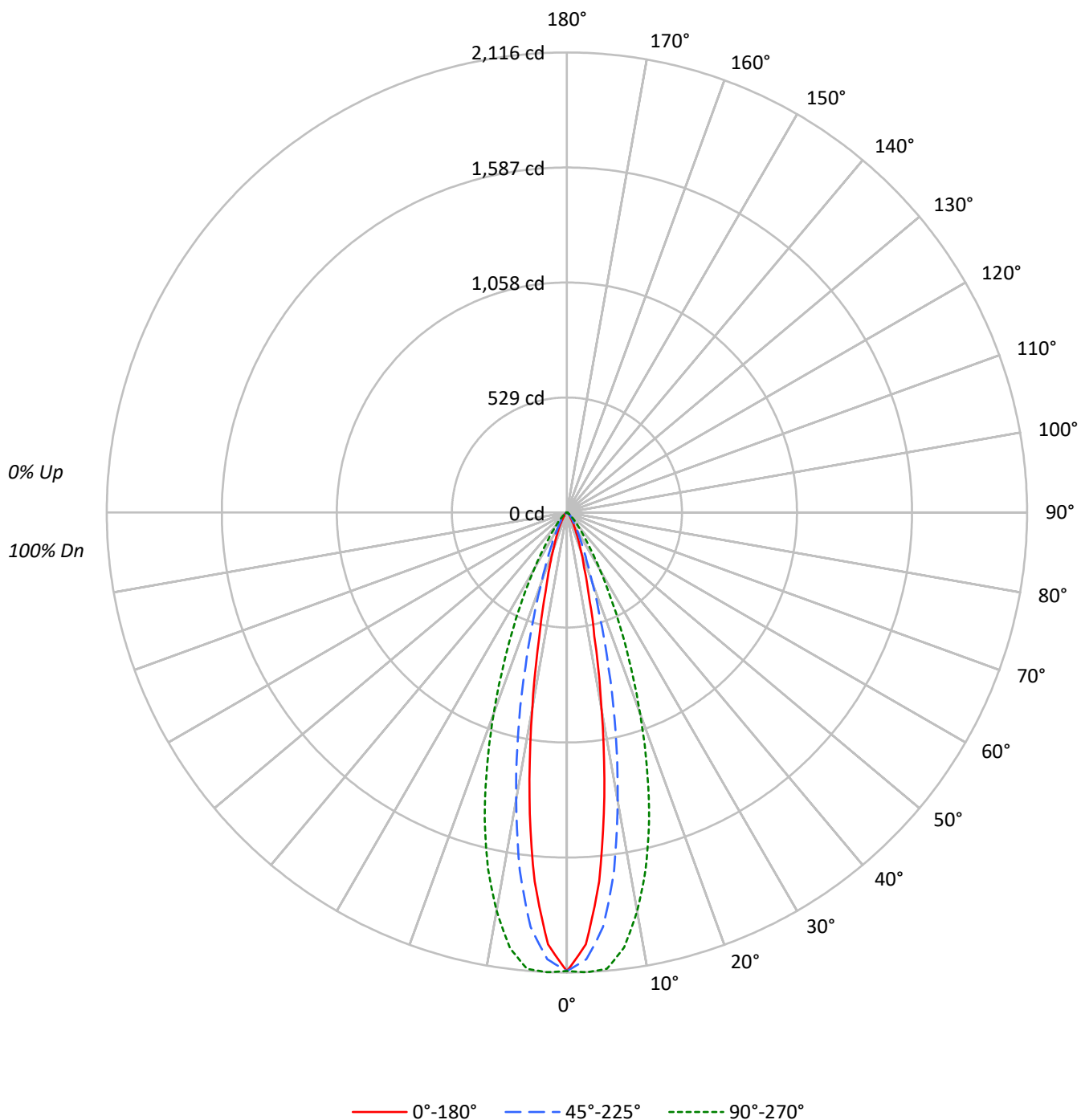
Lumens per Lamp: N/A
Luminaire Lumens: 594.5 lumens
Efficiency: N/A
Efficacy: 59.4 lumens/watt
Spacing Criteria (0/90/45): 0.31 / 0.63 / 0.43
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95		
2	110	106	102	100	108	104	101	98	101	98	96	98	96	94	95	94	92	91		
3	106	100	96	93	104	99	95	92	96	93	91	94	92	89	92	90	88	87		
4	102	96	91	88	100	94	90	87	92	89	86	90	87	85	89	86	84	83		
5	98	91	86	83	97	90	86	83	89	85	82	87	84	81	86	83	81	79		
6	95	87	83	79	93	87	82	79	85	81	78	84	80	78	83	80	77	76		
7	91	84	79	76	90	83	79	75	82	78	75	81	77	75	80	77	74	73		
8	88	81	76	73	87	80	76	72	79	75	72	78	75	72	77	74	72	70		
9	85	78	73	70	84	77	73	70	76	72	70	76	72	69	75	72	69	68		
10	83	75	70	67	82	75	70	67	74	70	67	73	70	67	73	69	67	66		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1040697	1040697	1040697
5°	843553	947456	1043385
10°	458640	672656	931709
15°	193989	377507	745769
20°	99020	177511	515679
25°	54818	90800	314316
30°	30706	50417	171418
35°	17767	30536	87331
40°	13203	23121	48367
45°	11652	15699	28676
50°	12281	10362	15274
55°	8860	7139	8257
60°	5723	5032	5032
65°	4436	4436	4436
70°	3750	3750	3750
75°	3622	3622	3622
80°	3694	3694	3694
85°	3396	3396	3396

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 28676 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.4	27.6
10°-20°	232.4	39.1
20°-30°	119.7	20.1
30°-40°	44.1	7.4
40°-50°	19.4	3.3
50°-60°	8.5	1.4
60°-70°	3.7	0.6
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°	516.5	86.9
0°-40°	560.6	94.3
0°-60°	588.4	99.0
0°-90°	594.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	594.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2109	2109	2109	2109	2109	
5°	1703	1761	1913	2048	2107	137
15°	380	441	739	1233	1460	116
25°	101	113	167	383	577	48
35°	30	34	51	88	145	20
45°	17	19	22	27	41	13
55°	10	9	8	9	10	9
65°	4	4	4	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°	2109.4	2109.4	2109.4	2109.4	2109.4
2.5°	1988.8	2012.5	2056.8	2099.1	2116.4
5°	1703.3	1761.0	1913.1	2048.4	2106.8
7.5°	1319.0	1414.0	1660.3	1913.7	2017.6
10°	915.5	1011.7	1342.7	1707.1	1859.8
12.5°	583.8	677.5	1034.8	1478.1	1676.3
15°	379.8	441.4	739.1	1233.0	1460.1
17.5°	263.7	307.3	503.0	973.2	1220.9
20°	188.6	219.4	338.1	742.3	982.2
22.5°	136.6	157.8	234.8	542.1	763.4
25°	100.7	112.9	166.8	383.0	577.4
27.5°	74.4	82.1	120.6	264.3	422.1
30°	53.9	60.3	88.5	181.6	300.9
32.5°	39.1	44.9	66.1	125.7	209.8
35°	29.5	34.0	50.7	88.5	145.0
37.5°	24.4	26.9	41.7	64.2	102.6
40°	20.5	23.1	35.9	47.5	75.1
42.5°	18.0	21.2	29.5	35.3	56.5
45°	16.7	19.2	22.5	26.9	41.1
47.5°	16.7	16.0	17.3	20.5	28.9
50°	16.0	13.5	13.5	16.0	19.9
52.5°	13.5	10.9	10.9	11.5	13.5
55°	10.3	9.0	8.3	9.0	9.6
57.5°	7.7	7.7	7.1	6.4	7.1
60°	5.8	5.8	5.1	5.1	5.1
62.5°	4.5	4.5	4.5	3.8	4.5
65°	3.8	3.8	3.8	3.2	3.8
67.5°	3.2	3.2	2.6	3.2	3.2
70°	2.6	2.6	2.6	2.6	2.6
72.5°	1.9	1.9	1.9	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)