

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: P1178860

Luminaire Tested: LDA2B109027R2040D010 2LBDC1MW

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1178860
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: LDA2B109027R2040D010 2LBDC1MW
Description: 1000 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 2700K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

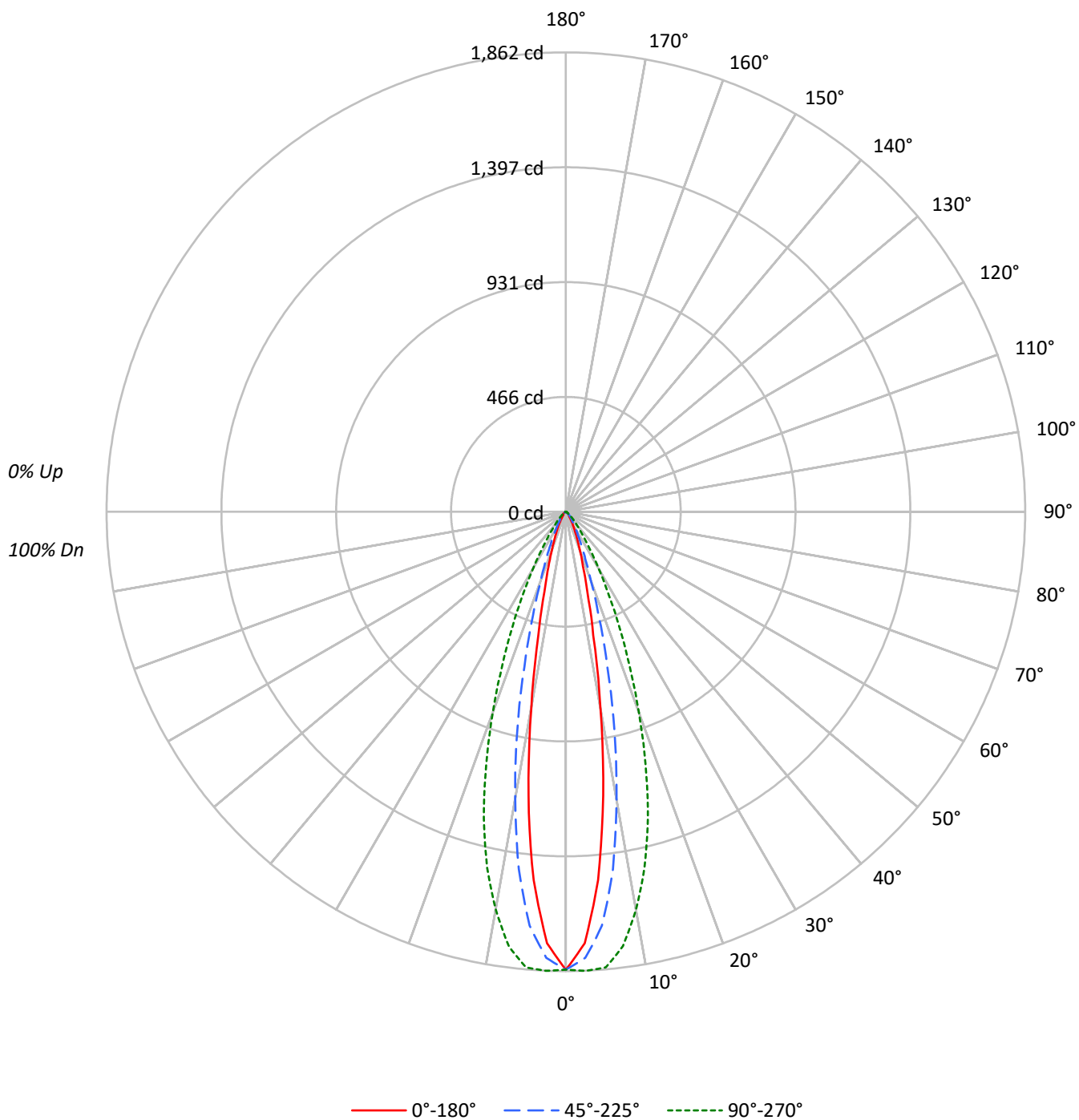
Lumens per Lamp: N/A
Luminaire Lumens: 523.2 lumens
Efficiency: N/A
Efficacy: 52.3 lumens/watt
Spacing Criteria (0/90/45): 0.31 / 0.63 / 0.43
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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			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	110	108	112	110	108	106	106	104	103		102	101	100		99	98	97	95
2	110	106	102	99	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	95	91	87	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	94	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°	915778	915778	915778
5°	742275	833698	918137
10°	403584	591949	819892
15°	170698	332151	656283
20°	87154	156195	453779
25°	48231	79913	276592
30°	27003	44378	150853
35°	15659	26862	76851
40°	11657	20352	42571
45°	10256	13815	25188
50°	10822	9134	13432
55°	7741	6279	7311
60°	5032	4440	4440
65°	3969	3969	3969
70°	3318	3318	3318
75°	3241	3241	3241
80°	3125	3125	3125
85°	3396	3396	3396

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 25188 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.6	27.6
10°-20°	204.5	39.1
20°-30°	105.4	20.1
30°-40°	38.8	7.4
40°-50°	17.0	3.3
50°-60°	7.5	1.4
60°-70°	3.3	0.6
70°-80°	1.6	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°	454.5	86.9
0°-40°	493.3	94.3
0°-60°	517.8	99.0
0°-90°	523.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	523.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1856	1856	1856	1856	1856	
5°	1499	1550	1683	1803	1854	121
15°	334	388	650	1085	1285	102
25°	89	99	147	337	508	43
35°	26	30	45	78	128	18
45°	15	17	20	24	36	12
55°	9	8	7	8	8	8
65°	3	3	3	3	3	3
75°	2	2	2	2	2	2
85°	1	1	1	1	1	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1856.2	1856.2	1856.2	1856.2	1856.2
2.5°	1750.1	1770.9	1809.9	1847.2	1862.4
5°	1498.8	1549.6	1683.4	1802.6	1853.9
7.5°	1160.7	1244.2	1461.0	1684.0	1775.5
10°	805.6	890.3	1181.6	1502.2	1636.6
12.5°	513.7	596.1	910.6	1300.7	1475.1
15°	334.2	388.4	650.3	1085.0	1284.9
17.5°	232.0	270.4	442.6	856.4	1074.3
20°	166.0	193.1	297.5	653.2	864.3
22.5°	120.2	138.9	206.6	477.0	671.8
25°	88.6	99.4	146.8	337.0	508.1
27.5°	65.5	72.3	106.1	232.6	371.5
30°	47.4	53.1	77.9	159.8	264.8
32.5°	34.4	39.5	58.1	110.6	184.6
35°	26.0	29.9	44.6	77.9	127.6
37.5°	21.5	23.7	36.7	56.5	90.3
40°	18.1	20.3	31.6	41.8	66.1
42.5°	15.8	18.6	26.0	31.0	49.7
45°	14.7	16.9	19.8	23.7	36.1
47.5°	14.7	14.1	15.2	18.1	25.4
50°	14.1	11.9	11.9	14.1	17.5
52.5°	11.9	9.6	9.6	10.2	11.9
55°	9.0	7.9	7.3	7.9	8.5
57.5°	6.8	6.8	6.2	5.6	6.2
60°	5.1	5.1	4.5	4.5	4.5
62.5°	4.0	4.0	4.0	3.4	4.0
65°	3.4	3.4	3.4	2.8	3.4
67.5°	2.8	2.8	2.3	2.8	2.8
70°	2.3	2.3	2.3	2.3	2.3
72.5°	1.7	1.7	1.7	1.7	1.7
75°	1.7	1.7	1.7	1.7	1.7
77.5°	1.1	1.1	1.1	1.1	1.1
80°	1.1	1.1	1.1	1.1	1.1
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)