

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: P1178315

Luminaire Tested: LDA2B059024R2040D010 2LBDC1MB

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1178315
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: LDA2B059024R2040D010 2LBDC1MB
Description: 500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 2400K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

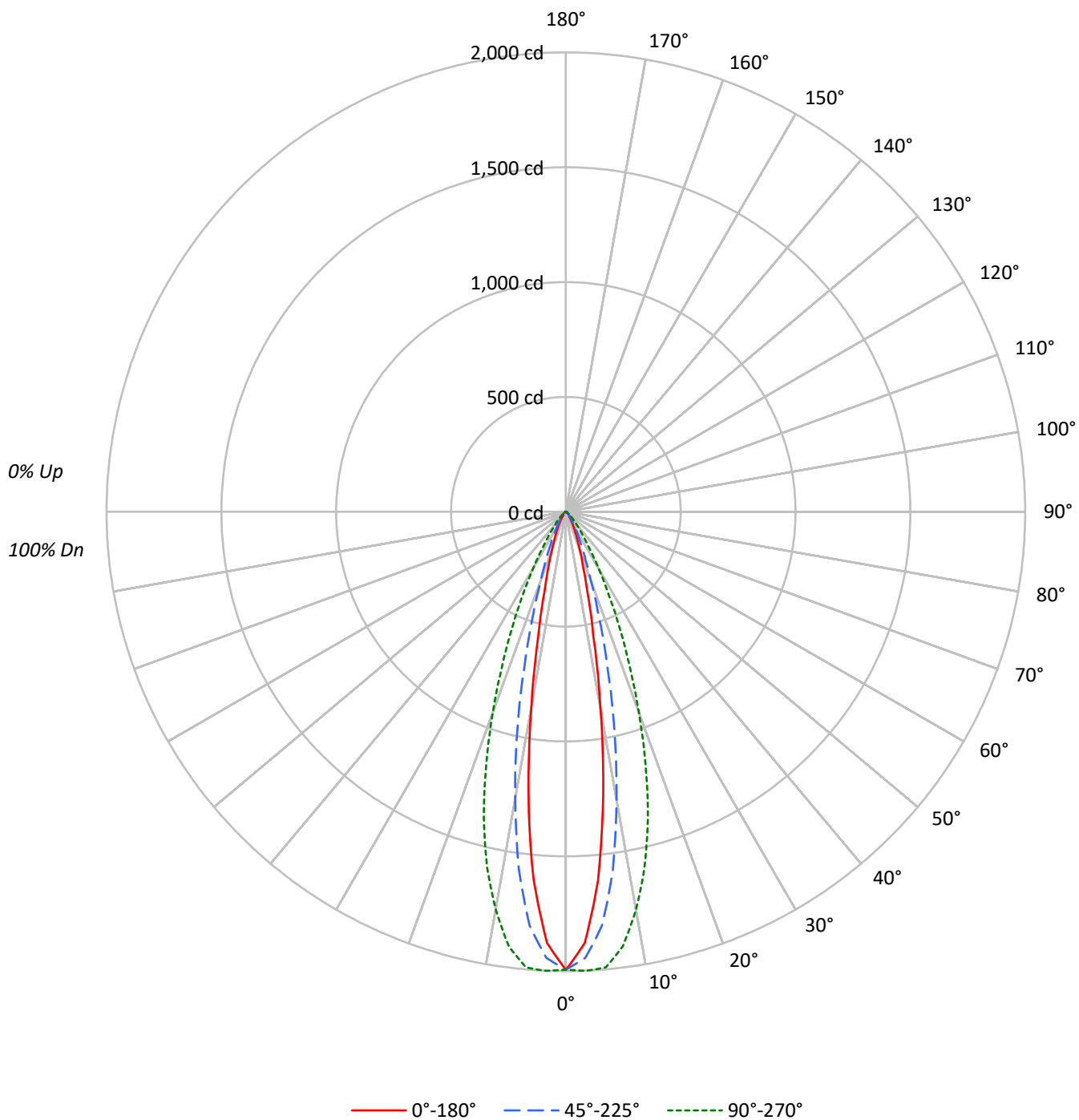
Lumens per Lamp: N/A
Luminaire Lumens: 561.9 lumens
Efficiency: N/A
Efficacy: 80.3 lumens/watt
Spacing Criteria (0/90/45): 0.31 / 0.63 / 0.43
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 7
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	110	108	112	110	108	106	106	104	103		102	101	100		99
2	110	106	102	100	108	104	101	98	101	98	96		98	96	94		95
3	106	100	96	93	104	99	95	92	96	93	91		94	92	89		92
4	102	96	91	88	100	94	90	87	92	89	86		90	87	85		89
5	98	91	86	83	97	90	86	83	89	85	82		87	84	81		86
6	95	87	83	79	93	87	82	79	85	81	78		84	80	78		83
7	91	84	79	76	90	83	79	75	82	78	75		81	77	75		80
8	88	81	76	73	87	80	76	72	79	75	72		78	75	72		77
9	85	78	73	70	84	77	73	70	76	72	70		76	72	69		75
10	83	75	70	67	82	75	70	67	74	70	67		73	70	67		73

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	983665	983665	983665
5°	797297	895504	986234
10°	433492	635835	880660
15°	183365	356770	704908
20°	93612	167798	487433
25°	51824	85846	297060
30°	28997	47683	162018
35°	16804	28849	82513
40°	12494	21897	45662
45°	11024	14792	27071
50°	11667	9748	14430
55°	8343	6795	7827
60°	5427	4835	4835
65°	4203	4203	4203
70°	3462	3462	3462
75°	3431	3431	3431
80°	3409	3409	3409
85°	3396	3396	3396

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 27071 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.4	27.6
10°-20°	219.7	39.1
20°-30°	113.2	20.1
30°-40°	41.6	7.4
40°-50°	18.3	3.3
50°-60°	8.0	1.4
60°-70°	3.5	0.6
70°-80°	1.7	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°	488.2	86.9
0°-40°	529.8	94.3
0°-60°	556.2	99.0
0°-90°	561.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	561.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1994	1994	1994	1994	1994	
5°	1610	1664	1808	1936	1991	130
15°	359	417	698	1166	1380	110
25°	95	107	158	362	546	46
35°	28	32	48	84	137	19
45°	16	18	21	26	39	13
55°	10	8	8	8	9	9
65°	4	4	4	3	4	4
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°	1993.8	1993.8	1993.8	1993.8	1993.8
2.5°	1879.8	1902.2	1944.1	1984.1	2000.4
5°	1609.9	1664.5	1808.2	1936.2	1991.4
7.5°	1246.7	1336.5	1569.3	1808.8	1907.1
10°	865.3	956.3	1269.2	1613.6	1757.9
12.5°	551.8	640.3	978.1	1397.1	1584.5
15°	359.0	417.2	698.5	1165.5	1380.1
17.5°	249.2	290.5	475.4	919.9	1153.9
20°	178.3	207.4	319.6	701.6	928.4
22.5°	129.2	149.2	221.9	512.4	721.6
25°	95.2	106.7	157.7	362.0	545.7
27.5°	70.3	77.6	114.0	249.8	399.0
30°	50.9	57.0	83.7	171.6	284.4
32.5°	37.0	42.4	62.5	118.9	198.3
35°	27.9	32.1	47.9	83.7	137.0
37.5°	23.0	25.5	39.4	60.6	97.0
40°	19.4	21.8	34.0	44.9	70.9
42.5°	17.0	20.0	27.9	33.4	53.4
45°	15.8	18.2	21.2	25.5	38.8
47.5°	15.8	15.2	16.4	19.4	27.3
50°	15.2	12.7	12.7	15.2	18.8
52.5°	12.7	10.3	10.3	10.9	12.7
55°	9.7	8.5	7.9	8.5	9.1
57.5°	7.3	7.3	6.7	6.1	6.7
60°	5.5	5.5	4.9	4.9	4.9
62.5°	4.2	4.2	4.2	3.6	4.2
65°	3.6	3.6	3.6	3.0	3.6
67.5°	3.0	3.0	2.4	3.0	3.0
70°	2.4	2.4	2.4	2.4	2.4
72.5°	1.8	1.8	1.8	1.8	1.8
75°	1.8	1.8	1.8	1.8	1.8
77.5°	1.2	1.2	1.2	1.2	1.2
80°	1.2	1.2	1.2	1.2	1.2
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)