

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: P1178305

Luminaire Tested: LDA2B059024R2040D010 2LBD1B

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1178305
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 2LBD1B
Description: 500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 2400K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

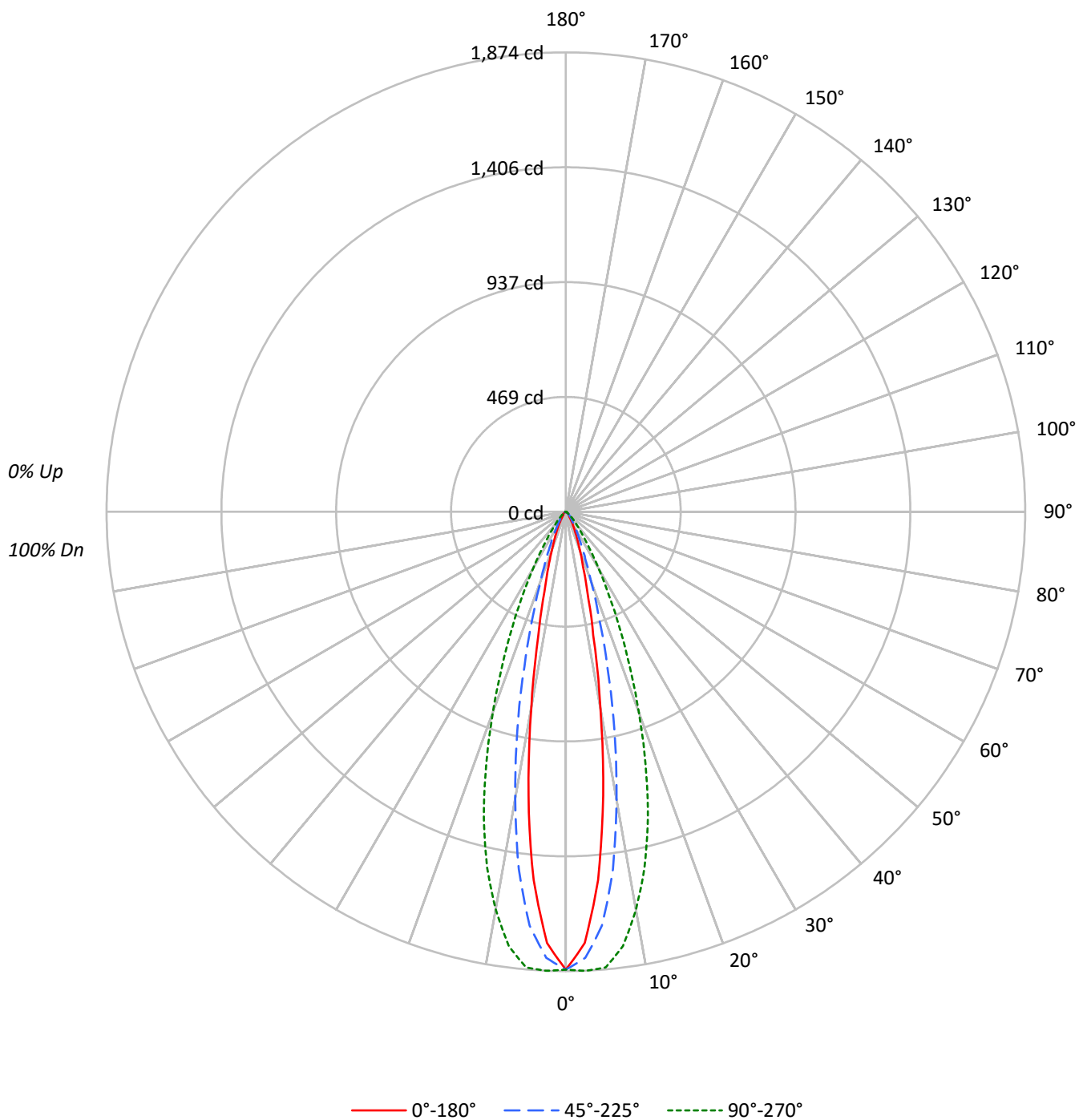
Lumens per Lamp: N/A
Luminaire Lumens: 526.4 lumens
Efficiency: N/A
Efficacy: 75.2 lumens/watt
Spacing Criteria (0/90/45): 0.31 / 0.63 / 0.43
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	921550	921550	921550
5°	746980	838997	923932
10°	406139	595657	825052
15°	171771	334296	660420
20°	87679	157192	456666
25°	48557	80403	278334
30°	27174	44663	151764
35°	15720	27043	77333
40°	11721	20480	42829
45°	10326	13885	25397
50°	10899	9134	13509
55°	7827	6365	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: 25397 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.5	27.6
10°-20°	205.8	39.1
20°-30°	106.0	20.1
30°-40°	39.0	7.4
40°-50°	17.1	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°	457.4	86.9
0°-40°	496.4	94.3
0°-60°	521.0	99.0
0°-90°	526.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	526.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1868	1868	1868	1868	1868	
5°	1508	1559	1694	1814	1866	121
15°	336	391	654	1092	1293	103
25°	89	100	148	339	511	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°	1867.9	1867.9	1867.9	1867.9	1867.9
2.5°	1761.1	1782.1	1821.3	1858.8	1874.2
5°	1508.3	1559.4	1694.1	1814.0	1865.6
7.5°	1168.0	1252.1	1470.2	1694.6	1786.7
10°	810.7	895.9	1189.0	1511.7	1646.9
12.5°	517.0	599.9	916.3	1308.9	1484.5
15°	336.3	390.9	654.5	1091.9	1293.0
17.5°	233.5	272.1	445.4	861.8	1081.1
20°	167.0	194.3	299.4	657.3	869.8
22.5°	121.0	139.8	207.9	480.0	676.0
25°	89.2	100.0	147.7	339.2	511.3
27.5°	65.9	72.7	106.8	234.1	373.8
30°	47.7	53.4	78.4	160.8	266.4
32.5°	34.7	39.8	58.5	111.3	185.8
35°	26.1	30.1	44.9	78.4	128.4
37.5°	21.6	23.9	36.9	56.8	90.9
40°	18.2	20.5	31.8	42.0	66.5
42.5°	15.9	18.7	26.1	31.2	50.0
45°	14.8	17.0	19.9	23.9	36.4
47.5°	14.8	14.2	15.3	18.2	25.6
50°	14.2	11.9	11.9	14.2	17.6
52.5°	11.9	9.7	9.7	10.2	11.9
55°	9.1	8.0	7.4	8.0	8.5
57.5°	6.8	6.8	6.2	5.7	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)