

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: P1178545

Luminaire Tested: LDA2B059727R2040D010 2LBD1MW

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1178545
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: LDA2B059727R2040D010 2LBD1MW
Description: 500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 97 CRI LEDS AND 2700K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

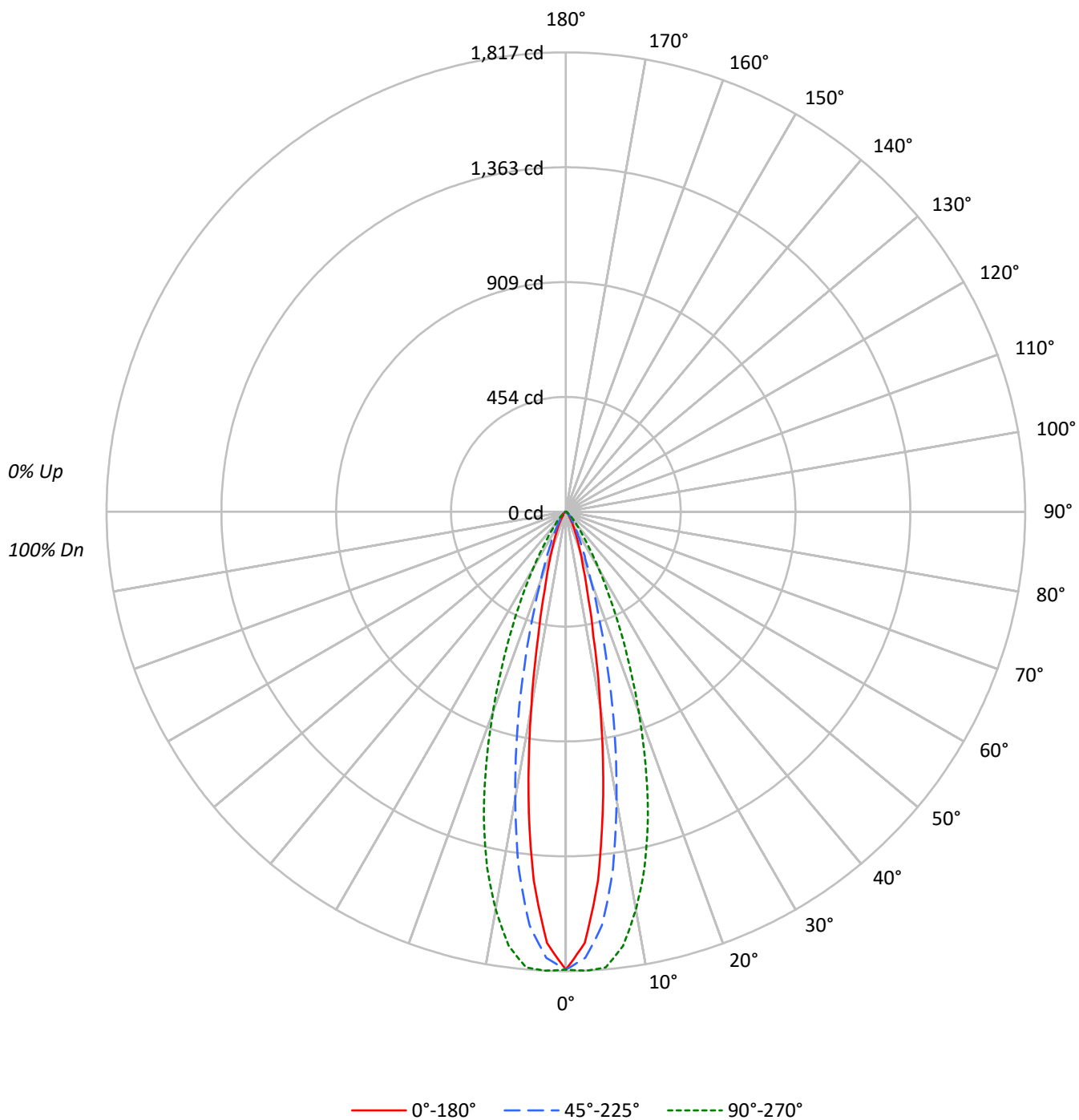
Lumens per Lamp: N/A
Luminaire Lumens: 510.5 lumens
Efficiency: N/A
Efficacy: 72.9 lumens/watt
Spacing Criteria (0/90/45): 0.31 / 0.63 / 0.43
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1178545

CATALOG NUMBER: LDA2B059727R2040D010 2LBD1MW

Luminous Intensity Polar Plot



TEST NUMBER: P1178545

CATALOG NUMBER: LDA2B059727R2040D010 2LBD1MW

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	99	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	95	91	87	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	94	87	82	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°	893478	893478	893478
5°	724199	813393	895802
10°	393765	577521	799903
15°	166561	324081	640296
20°	85001	152415	442701
25°	47088	77953	269841
30°	26376	43296	147150
35°	15238	26199	74984
40°	11335	19836	41476
45°	9977	13466	24560
50°	10592	8903	13125
55°	7569	6193	7139
60°	4934	4342	4342
65°	3852	3852	3852
70°	3173	3173	3173
75°	3241	3241	3241
80°	3125	3125	3125
85°	3396	3396	3396

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 24560 cd/sqm

TEST NUMBER: P1178545

CATALOG NUMBER: LDA2B059727R2040D010 2LBD1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.1	27.6
10°-20°	199.5	39.1
20°-30°	102.8	20.1
30°-40°	37.8	7.4
40°-50°	16.6	3.3
50°-60°	7.3	1.4
60°-70°	3.2	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°	443.4	86.9
0°-40°	481.3	94.3
0°-60°	505.2	99.0
0°-90°	510.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	510.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1811	1811	1811	1811	1811	
5°	1462	1512	1642	1759	1809	118
15°	326	379	634	1059	1254	100
25°	86	97	143	329	496	42
35°	25	29	44	76	124	17
45°	14	16	19	23	35	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	

TEST NUMBER: P1178545

CATALOG NUMBER: LDA2B059727R2040D010 2LBD1MW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1811.0	1811.0	1811.0	1811.0	1811.0
2.5°	1707.4	1727.8	1765.8	1802.1	1817.0
5°	1462.3	1511.9	1642.4	1758.6	1808.8
7.5°	1132.4	1213.9	1425.4	1643.0	1732.2
10°	786.0	868.6	1152.8	1465.6	1596.7
12.5°	501.2	581.6	888.4	1269.0	1439.2
15°	326.1	378.9	634.5	1058.6	1253.6
17.5°	226.4	263.8	431.8	835.5	1048.1
20°	161.9	188.4	290.3	637.2	843.2
22.5°	117.3	135.5	201.6	465.4	655.4
25°	86.5	96.9	143.2	328.8	495.7
27.5°	63.9	70.5	103.5	226.9	362.4
30°	46.3	51.8	76.0	155.9	258.3
32.5°	33.6	38.6	56.7	108.0	180.1
35°	25.3	29.2	43.5	76.0	124.5
37.5°	20.9	23.1	35.8	55.1	88.1
40°	17.6	19.8	30.8	40.8	64.4
42.5°	15.4	18.2	25.3	30.3	48.5
45°	14.3	16.5	19.3	23.1	35.2
47.5°	14.3	13.8	14.9	17.6	24.8
50°	13.8	11.6	11.6	13.8	17.1
52.5°	11.6	9.4	9.4	9.9	11.6
55°	8.8	7.7	7.2	7.7	8.3
57.5°	6.6	6.6	6.1	5.5	6.1
60°	5.0	5.0	4.4	4.4	4.4
62.5°	3.9	3.9	3.9	3.3	3.9
65°	3.3	3.3	3.3	2.8	3.3
67.5°	2.8	2.8	2.2	2.8	2.8
70°	2.2	2.2	2.2	2.2	2.2
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)