

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: P1179046

Luminaire Tested: LDA2B109727R2040D010 2LBD1LI

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1179046
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: LDA2B109727R2040D010 2LBD1LI
Description: 1000 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 97 CRI LEDS AND 2700K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

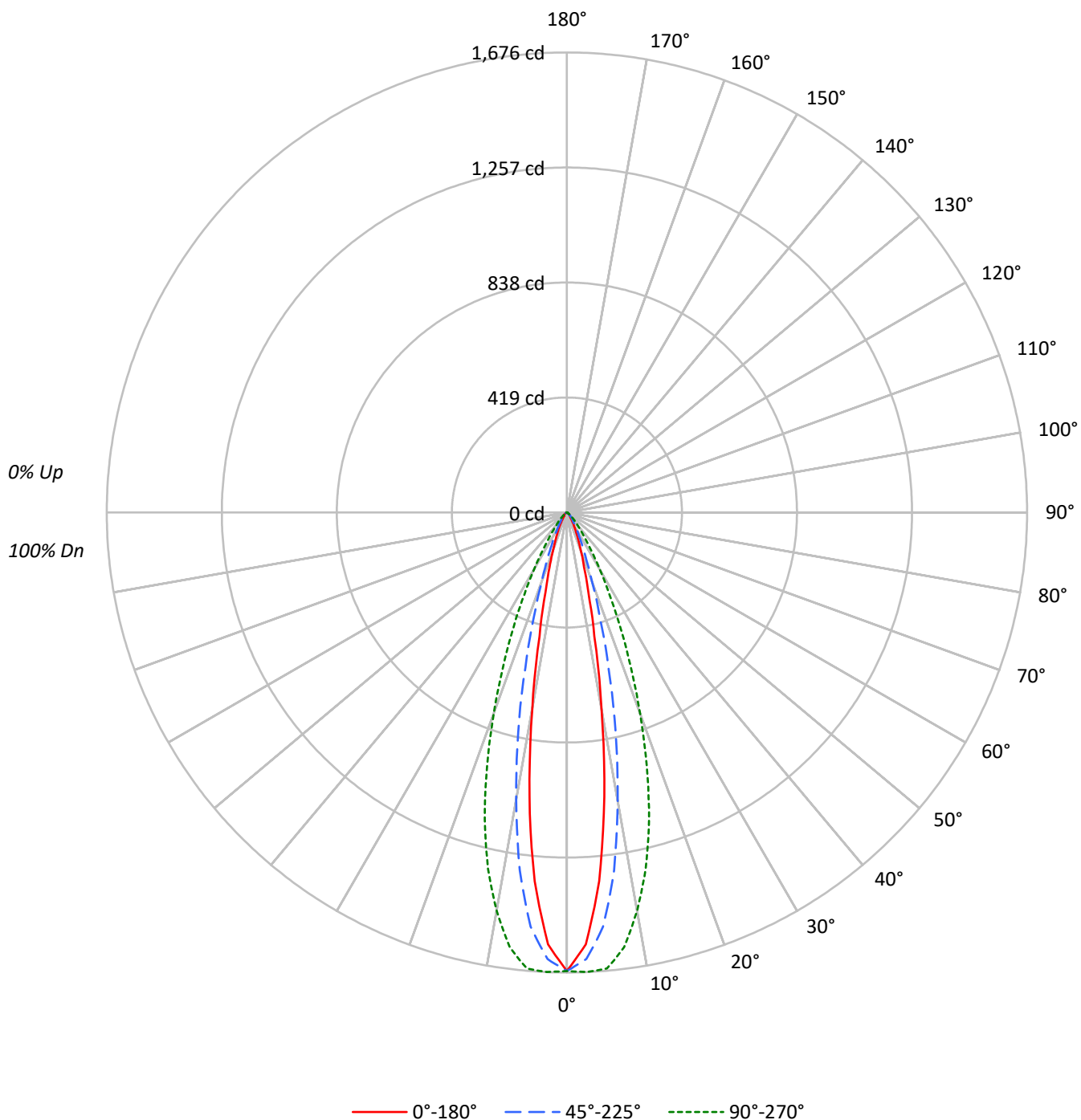
Lumens per Lamp: N/A
Luminaire Lumens: 470.7 lumens
Efficiency: N/A
Efficacy: 47.1 lumens/watt
Spacing Criteria (0/90/45): 0.31 / 0.63 / 0.43
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1179046

CATALOG NUMBER: LDA2B109727R2040D010 2LBD1LI

Luminous Intensity Polar Plot



TEST NUMBER: P1179046

CATALOG NUMBER: LDA2B109727R2040D010 2LBD1LI

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	100	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	96	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	95	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	71
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°	824013	824013	824013
5°	667889	750150	826120
10°	363155	532634	737732
15°	153587	298900	590496
20°	78386	140549	408312
25°	43386	71911	248883
30°	24326	39935	135699
35°	14093	24152	69142
40°	10498	18291	38256
45°	9210	12419	22676
50°	9748	8213	12050
55°	6967	5677	6537
60°	4539	4046	4046
65°	3502	3502	3502
70°	2885	2885	2885
75°	2859	2859	2859
80°	2841	2841	2841
85°	2830	2830	2830

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 22676 cd/sqm

TEST NUMBER: P1179046

CATALOG NUMBER: LDA2B109727R2040D010 2LBD1LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.1	27.6
10°-20°	184.0	39.1
20°-30°	94.8	20.1
30°-40°	34.9	7.4
40°-50°	15.3	3.3
50°-60°	6.7	1.4
60°-70°	2.9	0.6
70°-80°	1.5	0.3
80°-90°	0.4	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°	409.0	86.9
0°-40°	443.8	94.3
0°-60°	465.9	99.0
0°-90°	470.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	470.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1670	1670	1670	1670	1670	
5°	1349	1394	1515	1622	1668	109
15°	301	350	585	976	1156	92
25°	80	89	132	303	457	38
35°	23	27	40	70	115	16
45°	13	15	18	21	32	11
55°	8	7	7	7	8	7
65°	3	3	3	2	3	3
75°	2	2	2	2	2	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	

TEST NUMBER: P1179046

CATALOG NUMBER: LDA2B109727R2040D010 2LBD1LI

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1670.2	1670.2	1670.2	1670.2	1670.2
2.5°	1574.7	1593.5	1628.5	1662.0	1675.7
5°	1348.6	1394.3	1514.7	1621.9	1668.1
7.5°	1044.4	1119.5	1314.6	1515.2	1597.5
10°	724.9	801.0	1063.2	1351.7	1472.6
12.5°	462.2	536.4	819.3	1170.3	1327.3
15°	300.7	349.5	585.2	976.3	1156.1
17.5°	208.8	243.3	398.2	770.6	966.6
20°	149.3	173.7	267.7	587.7	777.7
22.5°	108.2	125.0	185.9	429.2	604.5
25°	79.7	89.4	132.1	303.2	457.2
27.5°	58.9	65.0	95.5	209.3	334.2
30°	42.7	47.7	70.1	143.8	238.2
32.5°	31.0	35.6	52.3	99.6	166.1
35°	23.4	26.9	40.1	70.1	114.8
37.5°	19.3	21.3	33.0	50.8	81.3
40°	16.3	18.3	28.4	37.6	59.4
42.5°	14.2	16.8	23.4	27.9	44.7
45°	13.2	15.2	17.8	21.3	32.5
47.5°	13.2	12.7	13.7	16.3	22.9
50°	12.7	10.7	10.7	12.7	15.7
52.5°	10.7	8.6	8.6	9.1	10.7
55°	8.1	7.1	6.6	7.1	7.6
57.5°	6.1	6.1	5.6	5.1	5.6
60°	4.6	4.6	4.1	4.1	4.1
62.5°	3.6	3.6	3.6	3.0	3.6
65°	3.0	3.0	3.0	2.5	3.0
67.5°	2.5	2.5	2.0	2.5	2.5
70°	2.0	2.0	2.0	2.0	2.0
72.5°	1.5	1.5	1.5	1.5	1.5
75°	1.5	1.5	1.5	1.5	1.5
77.5°	1.0	1.0	1.0	1.0	1.0
80°	1.0	1.0	1.0	1.0	1.0
82.5°	0.5	0.5	0.5	0.5	0.5
85°	0.5	0.5	0.5	0.5	0.5
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)