

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: P1178633

Luminaire Tested: LDA2B108027R2050D010 2LBD1LI

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1178633
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2206-683-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/17/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDA2B108027R2050D010 2LBD1LI
Description: 1000 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 80 CRI LEDS AND 2700K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

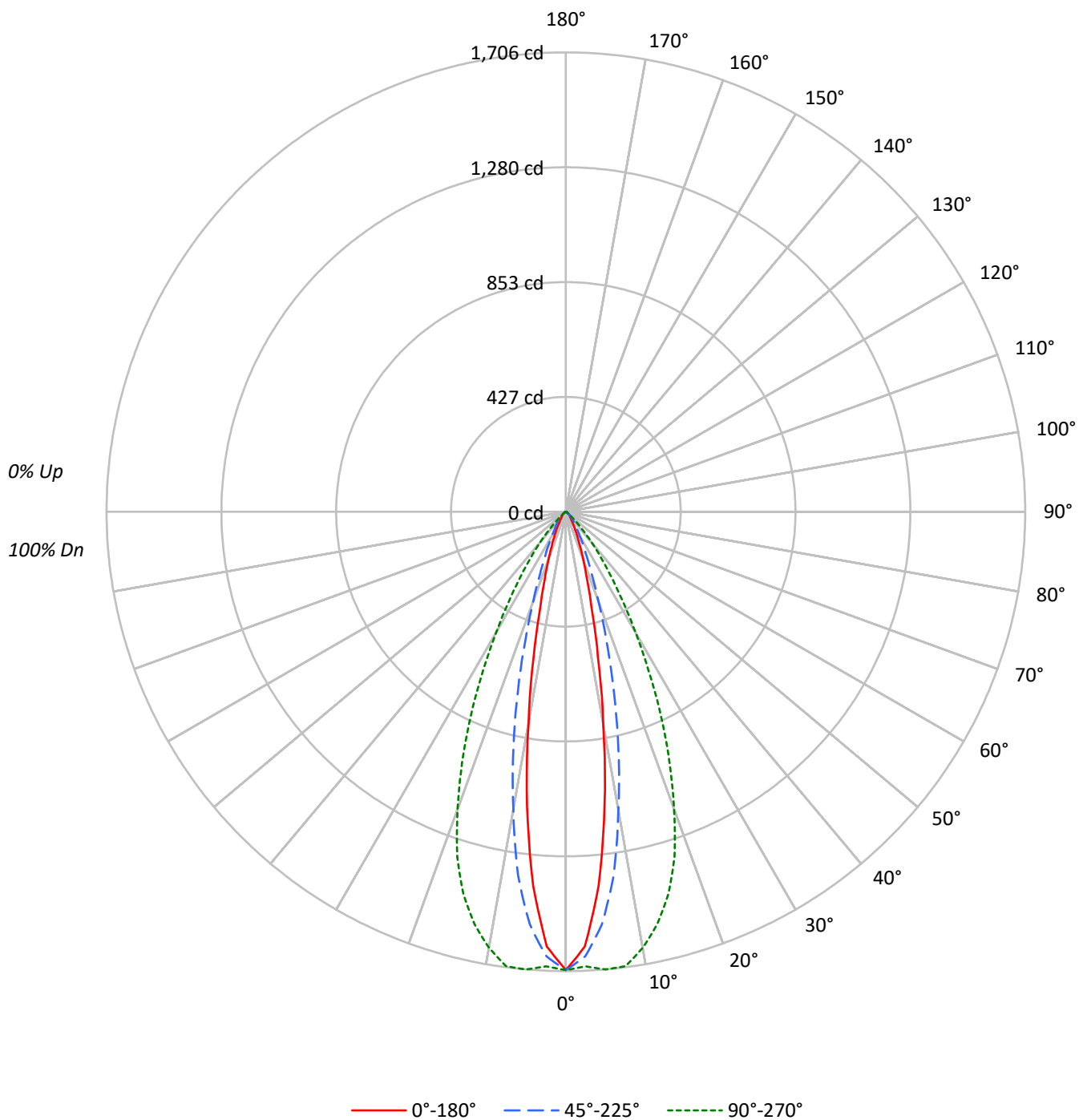
Lumens per Lamp: N/A
Luminaire Lumens: 611.8 lumens
Efficiency: N/A
Efficacy: 61.2 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.8 / 0.47
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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: P1178633

CATALOG NUMBER: LDA2B108027R2050D010 2LBD1LI

Luminous Intensity Polar Plot



TEST NUMBER: P1178633

CATALOG NUMBER: LDA2B108027R2050D010 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	109	107	112	109	107	106	105	104	102	102	100	99	98	97	96	96	96	95
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	93	91	91	91	90
3	105	99	95	91	103	98	94	90	95	92	89	93	90	88	90	88	86	86	86	85
4	100	94	89	85	99	93	88	85	91	87	84	89	85	83	87	84	82	82	82	80
5	96	89	84	80	95	88	83	80	86	82	79	85	81	78	83	80	78	78	78	76
6	92	85	80	76	91	84	79	76	83	78	75	81	77	75	80	77	74	74	74	73
7	89	81	76	72	88	80	75	72	79	75	71	78	74	71	77	73	71	71	71	70
8	85	77	72	69	84	77	72	69	76	71	68	75	71	68	74	70	68	68	68	67
9	82	74	69	66	81	74	69	66	73	68	65	72	68	65	71	68	65	65	65	64
10	79	71	66	63	79	71	66	63	70	66	63	69	65	63	69	65	62	62	62	61

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	839702	839702	839702
5°	690373	761738	845039
10°	400728	562893	823850
15°	186685	350539	750775
20°	98390	184809	617114
25°	54491	100054	455143
30°	31959	58621	294356
35°	20538	39329	174421
40°	15972	26534	96928
45°	13885	15838	43049
50°	12511	10899	15811
55°	8515	7913	7311
60°	6315	5624	5624
65°	5020	4086	5020
70°	4039	4039	4039
75°	4003	4003	4003
80°	3978	3978	3978
85°	3962	3962	3962

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 43049 cd/sqm

TEST NUMBER: P1178633

CATALOG NUMBER: LDA2B108027R2050D010 2LBD1LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.5	22.2
10°-20°	221.9	36.3
20°-30°	148.0	24.2
30°-40°	66.7	10.9
40°-50°	24.4	4.0
50°-60°	8.5	1.4
60°-70°	4.0	0.7
70°-80°	2.1	0.3
80°-90°	0.6	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°	505.4	82.6
0°-40°	572.2	93.5
0°-60°	605.1	98.9
0°-90°	611.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	611.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1702	1702	1702	1702	1702	
5°	1394	1437	1538	1650	1706	114
15°	366	429	686	1160	1470	109
25°	100	116	184	501	836	48
35°	34	38	65	141	290	23
45°	20	20	23	36	62	16
55°	10	9	9	8	8	9
65°	4	4	4	4	4	4
75°	2	2	2	2	2	2
85°	1	1	1	1	1	1
90°	0	0	0	0	0	

TEST NUMBER: P1178633

CATALOG NUMBER: LDA2B108027R2050D010 2LBD1LI

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1702.0	1702.0	1702.0	1702.0	1702.0
2.5°	1616.1	1633.2	1653.0	1673.6	1689.9
5°	1394.0	1437.3	1538.1	1650.2	1706.3
7.5°	1102.3	1166.1	1362.0	1583.5	1702.0
10°	799.9	881.5	1123.6	1467.8	1644.5
12.5°	550.1	626.7	901.4	1321.6	1568.6
15°	365.5	429.4	686.3	1159.7	1469.9
17.5°	257.6	300.9	499.0	983.0	1342.9
20°	187.4	216.5	352.0	809.8	1175.4
22.5°	136.3	158.3	250.5	647.3	1005.7
25°	100.1	116.4	183.8	501.1	836.1
27.5°	74.5	87.3	137.7	380.4	666.5
30°	56.1	66.7	102.9	280.4	516.7
32.5°	43.3	50.4	78.8	200.2	391.1
35°	34.1	38.3	65.3	141.2	289.6
37.5°	28.4	31.2	53.9	98.7	212.2
40°	24.8	27.0	41.2	70.3	150.5
42.5°	22.0	23.4	29.8	50.4	97.9
45°	19.9	19.9	22.7	35.5	61.7
47.5°	18.5	16.3	17.7	24.8	36.2
50°	16.3	13.5	14.2	17.0	20.6
52.5°	12.8	11.4	11.4	11.4	12.1
55°	9.9	9.2	9.2	7.8	8.5
57.5°	7.8	7.8	7.1	6.4	7.1
60°	6.4	6.4	5.7	5.0	5.7
62.5°	5.0	5.0	4.3	4.3	5.0
65°	4.3	4.3	3.5	3.5	4.3
67.5°	3.5	3.5	3.5	2.8	3.5
70°	2.8	2.8	2.8	2.8	2.8
72.5°	2.1	2.1	2.8	2.1	2.1
75°	2.1	2.1	2.1	2.1	2.1
77.5°	1.4	1.4	1.4	1.4	1.4
80°	1.4	1.4	1.4	1.4	1.4
82.5°	0.7	0.7	0.7	0.7	0.7
85°	0.7	0.7	0.7	0.7	0.7
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)