

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: P1179377

Luminaire Tested: LDA2B159027R2050D010 2LBDC1MW

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1179377
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: LDA2B159027R2050D010 2LBDC1MW
Description: 1500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 2700K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

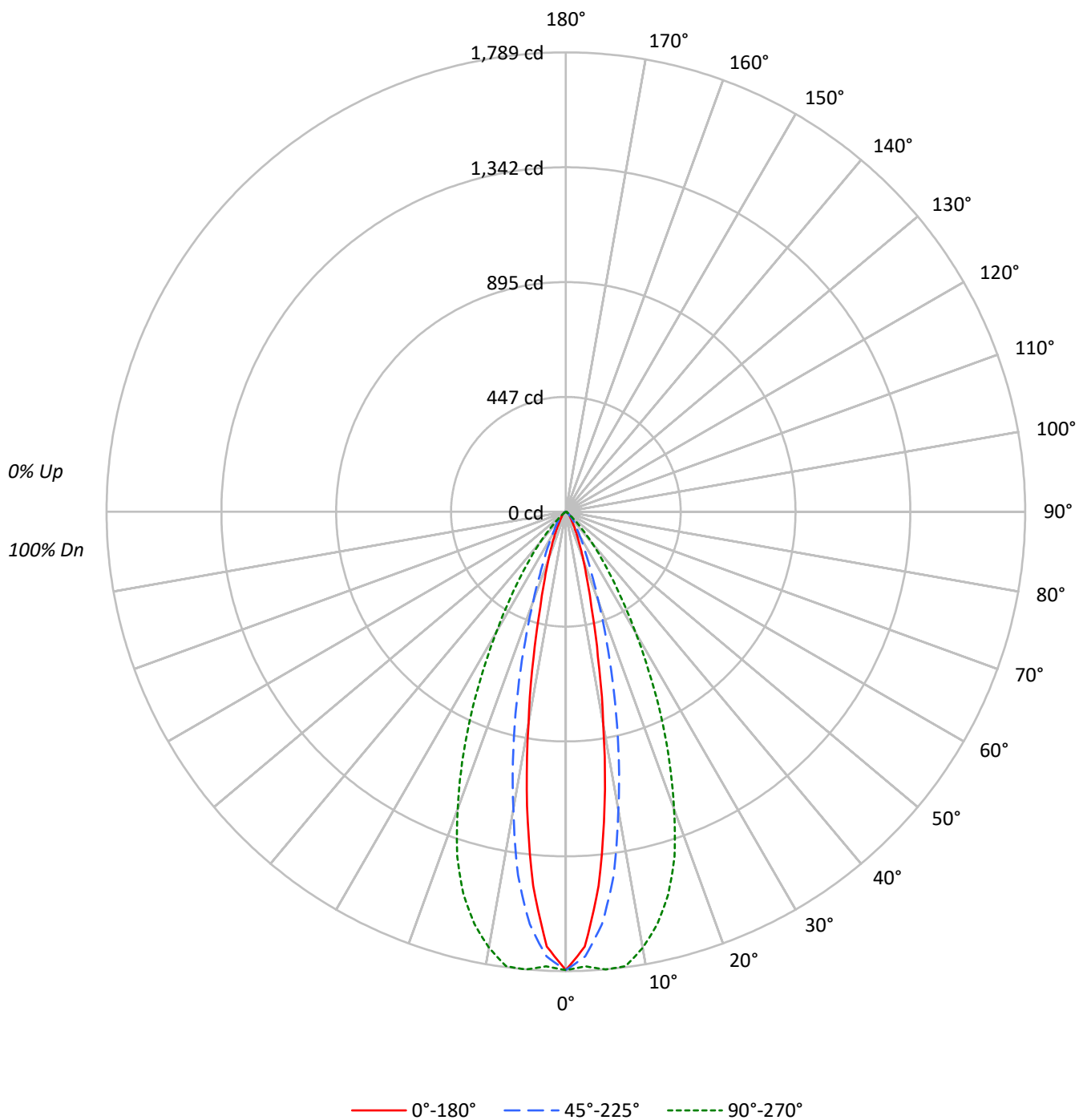
Lumens per Lamp: N/A
Luminaire Lumens: 641.5 lumens
Efficiency: N/A
Efficacy: 45.5 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.8 / 0.47
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 14.1
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: P1179377

CATALOG NUMBER: LDA2B159027R2050D010 2LBDC1MW

Luminous Intensity Polar Plot



TEST NUMBER: P1179377

CATALOG NUMBER: LDA2B159027R2050D010 2LBDC1MW

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	880503	880503	880503
5°	723902	798684	886045
10°	420166	590196	863877
15°	195776	367598	787243
20°	103167	193787	647040
25°	57104	104953	477244
30°	33497	61469	308655
35°	21502	41256	182853
40°	16745	27822	101629
45°	14513	16606	45142
50°	13125	11436	16579
55°	8946	8343	7655
60°	6611	5920	5920
65°	5253	4319	5253
70°	4327	4327	4327
75°	4194	4194	4194
80°	4262	4262	4262
85°	3962	3962	3962

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 45142 cd/sqm

TEST NUMBER: P1179377

CATALOG NUMBER: LDA2B159027R2050D010 2LBDC1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.1	22.2
10°-20°	232.7	36.3
20°-30°	155.2	24.2
30°-40°	70.0	10.9
40°-50°	25.6	4.0
50°-60°	9.0	1.4
60°-70°	4.2	0.7
70°-80°	2.2	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°	530.0	82.6
0°-40°	599.9	93.5
0°-60°	634.5	98.9
0°-90°	641.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	641.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1785	1785	1785	1785	1785	
5°	1462	1507	1613	1730	1789	119
15°	383	450	720	1216	1541	115
25°	105	122	193	525	877	51
35°	36	40	68	148	304	24
45°	21	21	24	37	65	16
55°	10	10	10	8	9	10
65°	4	4	4	4	4	5
75°	2	2	2	2	2	2
85°	1	1	1	1	1	1
90°	0	0	0	0	0	

TEST NUMBER: P1179377

CATALOG NUMBER: LDA2B159027R2050D010 2LBDC1MW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1784.7	1784.7	1784.7	1784.7	1784.7
2.5°	1694.6	1712.5	1733.3	1754.9	1772.0
5°	1461.7	1507.1	1612.7	1730.3	1789.1
7.5°	1155.8	1222.8	1428.2	1660.4	1784.7
10°	838.7	924.3	1178.1	1539.1	1724.4
12.5°	576.8	657.2	945.2	1385.8	1644.7
15°	383.3	450.3	719.7	1216.1	1541.3
17.5°	270.2	315.6	523.2	1030.8	1408.1
20°	196.5	227.0	369.1	849.2	1232.4
22.5°	142.9	166.0	262.7	678.7	1054.6
25°	104.9	122.1	192.8	525.4	876.7
27.5°	78.1	91.5	144.4	398.9	698.8
30°	58.8	70.0	107.9	294.0	541.8
32.5°	45.4	52.8	82.6	209.9	410.1
35°	35.7	40.2	68.5	148.1	303.6
37.5°	29.8	32.7	56.6	103.4	222.5
40°	26.0	28.3	43.2	73.7	157.8
42.5°	23.1	24.6	31.3	52.8	102.7
45°	20.8	20.8	23.8	37.2	64.7
47.5°	19.3	17.1	18.6	26.0	38.0
50°	17.1	14.1	14.9	17.9	21.6
52.5°	13.4	11.9	11.9	11.9	12.7
55°	10.4	9.7	9.7	8.2	8.9
57.5°	8.2	8.2	7.4	6.7	7.4
60°	6.7	6.7	6.0	5.2	6.0
62.5°	5.2	5.2	4.5	4.5	5.2
65°	4.5	4.5	3.7	3.7	4.5
67.5°	3.7	3.7	3.7	3.0	3.7
70°	3.0	3.0	3.0	3.0	3.0
72.5°	2.2	2.2	3.0	2.2	2.2
75°	2.2	2.2	2.2	2.2	2.2
77.5°	1.5	1.5	1.5	1.5	1.5
80°	1.5	1.5	1.5	1.5	1.5
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)