

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: P1179338

Luminaire Tested: LDA2B159024R2050D010 2LBDC1MW

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1179338
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: LDA2B159024R2050D010 2LBDC1MW
Description: 1500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 2400K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

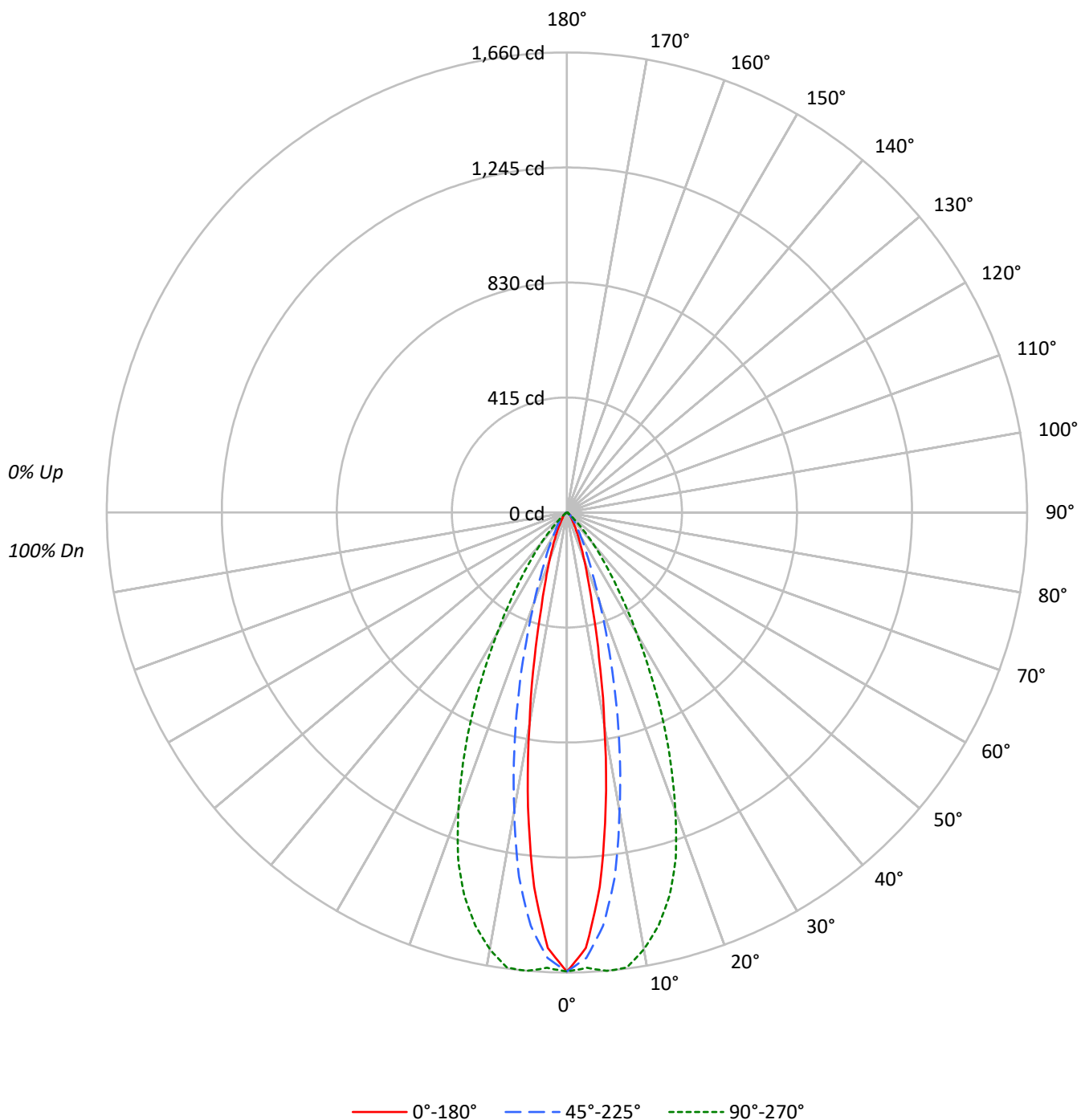
Lumens per Lamp: N/A
Luminaire Lumens: 595.4 lumens
Efficiency: N/A
Efficacy: 42.2 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.8 / 0.47
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P1179338

CATALOG NUMBER: LDA2B159024R2050D010 2LBDC1MW

Luminous Intensity Polar Plot



TEST NUMBER: P1179338

CATALOG NUMBER: LDA2B159024R2050D010 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°	817155	817155	817155
5°	671802	741285	822357
10°	389957	547764	801757
15°	181679	341140	730599
20°	95712	179873	600523
25°	53021	97387	442895
30°	31105	57082	286438
35°	19996	38245	169723
40°	15586	25826	94287
45°	13466	15420	41933
50°	12204	10592	15351
55°	8343	7741	7139
60°	6118	5427	5427
65°	4786	4086	4786
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: 41933 cd/sqm

TEST NUMBER: P1179338

CATALOG NUMBER: LDA2B159024R2050D010 2LBDC1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.9	22.1
10°-20°	215.9	36.3
20°-30°	144.0	24.2
30°-40°	64.9	10.9
40°-50°	23.8	4.0
50°-60°	8.3	1.4
60°-70°	3.9	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°	491.9	82.6
0°-40°	556.8	93.5
0°-60°	588.9	98.9
0°-90°	595.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	595.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1656	1656	1656	1656	1656	
5°	1356	1399	1497	1606	1660	111
15°	356	418	668	1129	1430	106
25°	97	113	179	488	814	47
35°	33	37	64	137	282	22
45°	19	19	22	34	60	15
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: P1179338

CATALOG NUMBER: LDA2B159024R2050D010 2LBDC1MW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1656.3	1656.3	1656.3	1656.3	1656.3
2.5°	1572.7	1589.3	1608.6	1628.7	1644.6
5°	1356.5	1398.7	1496.8	1605.9	1660.5
7.5°	1072.7	1134.8	1325.5	1541.0	1656.3
10°	778.4	857.9	1093.4	1428.4	1600.4
12.5°	535.3	609.9	877.2	1286.1	1526.5
15°	355.7	417.9	667.9	1128.6	1430.4
17.5°	250.7	292.9	485.6	956.6	1306.8
20°	182.3	210.7	342.6	788.1	1143.8
22.5°	132.6	154.0	243.8	629.9	978.7
25°	97.4	113.3	178.9	487.6	813.6
27.5°	72.5	85.0	134.0	370.2	648.6
30°	54.6	64.9	100.2	272.8	502.8
32.5°	42.1	49.0	76.7	194.8	380.6
35°	33.2	37.3	63.5	137.4	281.8
37.5°	27.6	30.4	52.5	96.0	206.5
40°	24.2	26.2	40.1	68.4	146.4
42.5°	21.4	22.8	29.0	49.0	95.3
45°	19.3	19.3	22.1	34.5	60.1
47.5°	18.0	15.9	17.3	24.2	35.2
50°	15.9	13.1	13.8	16.6	20.0
52.5°	12.4	11.1	11.1	11.1	11.7
55°	9.7	9.0	9.0	7.6	8.3
57.5°	7.6	7.6	6.9	6.2	6.9
60°	6.2	6.2	5.5	4.8	5.5
62.5°	4.8	4.8	4.1	4.1	4.8
65°	4.1	4.1	3.5	3.5	4.1
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)