

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: P1179345

Luminaire Tested: LDA2B159024R2060D010 2LBD1MW

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1179345
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2010-034-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/17/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDA2B159024R2060D010 2LBD1MW
Description: 1500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 2400K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

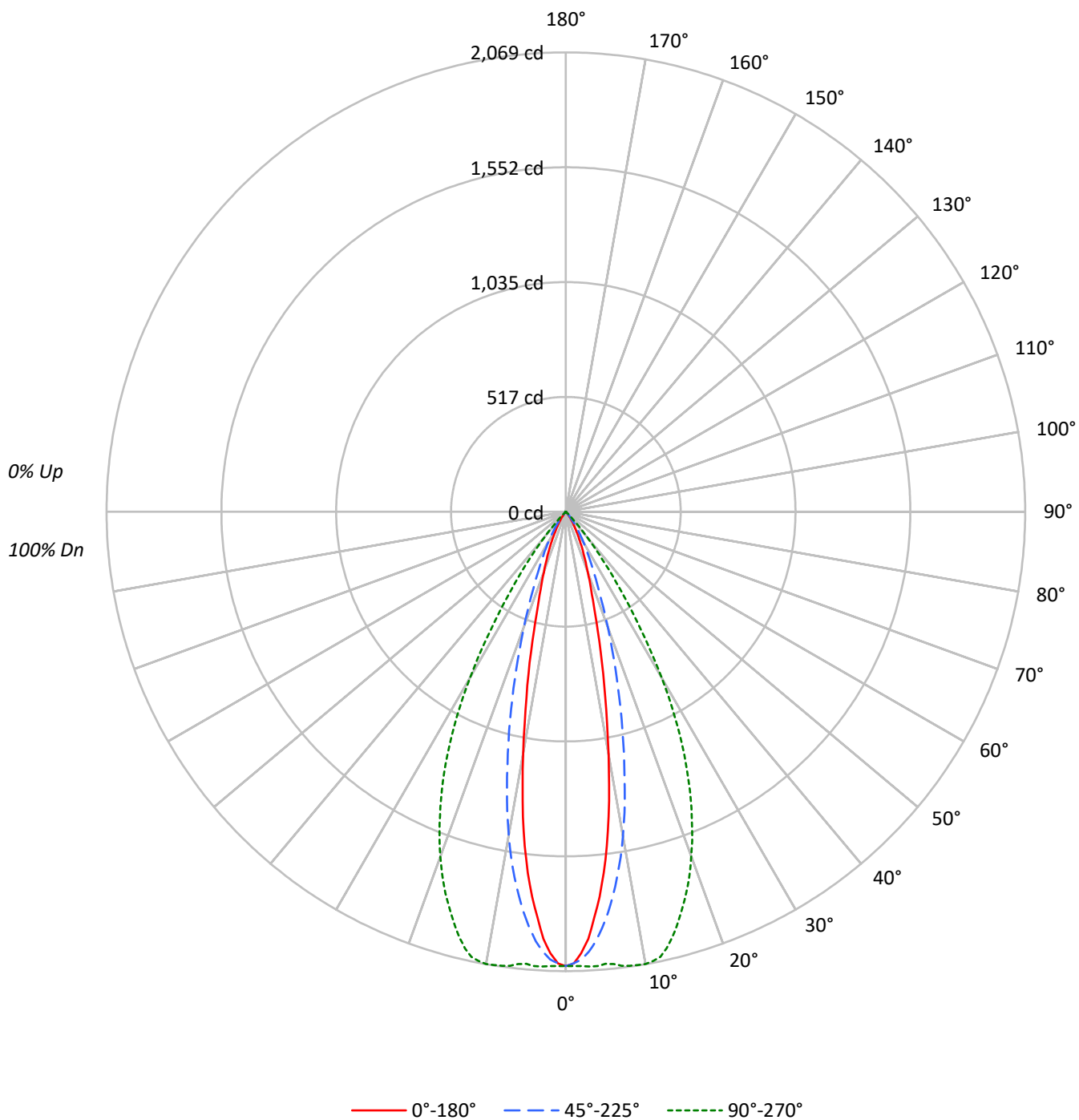
Lumens per Lamp: N/A
Luminaire Lumens: 815.0 lumens
Efficiency: N/A
Efficacy: 57.8 lumens/watt
Spacing Criteria (0/90/45): 0.36 / 0.9 / 0.52
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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: P1179345

CATALOG NUMBER: LDA2B159024R2060D010 2LBD1MW

Luminous Intensity Polar Plot



TEST NUMBER: P1179345

CATALOG NUMBER: LDA2B159024R2060D010 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	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	99	108	104	101	98	101	98	96	98	96	94	95	93	92	92	92	90
3	105	100	96	92	103	99	95	92	96	93	90	94	91	89	91	89	87	87	87	86
4	101	95	90	87	99	94	89	86	92	88	85	90	87	84	88	85	83	83	83	82
5	97	90	85	82	96	89	85	81	88	84	81	86	83	80	85	82	79	79	79	78
6	93	86	81	77	92	85	81	77	84	80	77	82	79	76	81	78	76	76	76	74
7	90	82	77	74	89	81	77	73	80	76	73	79	75	73	78	75	72	72	72	71
8	86	79	74	70	85	78	73	70	77	73	70	76	72	69	75	72	69	69	69	68
9	83	75	70	67	82	75	70	67	74	70	67	73	69	66	72	69	66	66	66	65
10	80	72	67	64	79	72	67	64	71	67	64	70	66	64	70	66	64	64	64	62

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1009468	1009468	1009468
5°	862026	931756	1012333
10°	554978	742792	1036462
15°	284701	495443	986289
20°	152047	289499	867498
25°	84758	158737	705660
30°	45176	90409	491581
35°	19695	43605	256272
40°	5732	12752	97121
45°	1395	3489	14513
50°	768	768	1535
55°	860	860	860
60°	0	987	987
65°	0	1167	1167
70°	0	1442	1442
75°	0	1906	1906
80°	0	2841	2841
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 14513 cd/sqm

TEST NUMBER: P1179345

CATALOG NUMBER: LDA2B159024R2060D010 2LBD1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.9	20.7
10°-20°	307.4	37.7
20°-30°	233.0	28.6
30°-40°	93.2	11.4
40°-50°	9.5	1.2
50°-60°	1.0	0.1
60°-70°	0.9	0.1
70°-80°	0.9	0.1
80°-90°	0.3	0.0
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°	709.3	87.0
0°-40°	802.6	98.5
0°-60°	813.0	99.8
0°-90°	815.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	815.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2046	2046	2046	2046	2046	
5°	1741	1779	1881	1990	2044	146
15°	557	647	970	1597	1931	160
25°	156	182	292	833	1296	74
35°	33	41	72	220	426	23
45°	2	3	5	10	21	2
55°	1	1	1	1	1	1
65°	0	1	1	1	1	0
75°	0	1	1	1	1	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0

TEST NUMBER: P1179345

CATALOG NUMBER: LDA2B159024R2060D010 2LBD1MW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2046.1	2046.1	2046.1	2046.1	2046.1
1°	2035.1	2036.1	2034.1	2037.1	2047.0
2°	1989.5	2004.4	2017.3	2030.2	2047.0
3°	1926.0	1943.9	1984.6	2025.2	2051.0
4°	1832.8	1869.5	1938.9	2013.3	2051.0
5°	1740.6	1779.3	1881.4	1990.5	2044.1
6°	1635.5	1691.0	1815.0	1968.7	2048.0
7°	1516.4	1584.9	1741.6	1954.8	2059.9
8°	1387.5	1464.9	1661.2	1925.1	2064.9
9°	1244.7	1338.9	1575.9	1889.3	2066.9
10°	1107.8	1207.0	1482.7	1848.7	2068.9
11°	971.0	1074.1	1381.6	1809.0	2060.9
12°	854.9	953.1	1275.4	1767.4	2049.0
13°	747.8	843.0	1170.3	1717.8	2018.3
14°	648.6	741.9	1069.1	1660.2	1977.6
15°	557.4	646.6	970.0	1596.8	1931.0
16°	475.1	558.4	874.8	1526.4	1879.4
17°	415.6	482.0	785.5	1452.0	1828.9
18°	368.9	418.5	701.2	1378.6	1775.3
19°	327.3	367.0	622.8	1302.2	1715.8
20°	289.6	325.3	551.4	1222.9	1652.3
21°	257.9	288.6	485.0	1144.5	1587.8
22°	230.1	256.9	425.5	1067.2	1517.4
23°	204.3	228.1	374.9	988.8	1447.0
24°	179.5	205.3	330.3	909.5	1373.6
25°	155.7	181.5	291.6	833.1	1296.3
26°	136.9	160.7	258.9	758.7	1215.9
27°	118.0	142.8	230.1	687.3	1134.6
28°	103.1	126.0	204.3	618.9	1046.3
29°	89.3	111.1	180.5	551.4	956.1
30°	79.3	96.2	158.7	488.0	862.9
32.5°	54.5	64.5	111.1	343.2	629.8
35°	32.7	40.7	72.4	220.2	425.5
37.5°	17.9	21.8	41.7	131.9	267.8
40°	8.9	10.9	19.8	64.5	150.8
42.5°	4.0	5.0	8.9	24.8	64.5
45°	2.0	3.0	5.0	9.9	20.8
47.5°	1.0	2.0	2.0	4.0	6.0
50°	1.0	1.0	1.0	2.0	2.0
52.5°	1.0	1.0	1.0	2.0	2.0
55°	1.0	1.0	1.0	1.0	1.0
57.5°	0.0	1.0	1.0	1.0	1.0
60°	0.0	1.0	1.0	1.0	1.0
62.5°	0.0	1.0	1.0	1.0	1.0
65°	0.0	1.0	1.0	1.0	1.0



TEST NUMBER: P1179345

CATALOG NUMBER: LDA2B159024R2060D010 2LBD1MW

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	0.0	1.0	1.0	1.0	1.0
70°	0.0	1.0	1.0	1.0	1.0
72.5°	0.0	1.0	1.0	1.0	1.0
75°	0.0	1.0	1.0	1.0	1.0
77.5°	0.0	1.0	1.0	1.0	1.0
80°	0.0	0.0	1.0	1.0	1.0
82.5°	0.0	0.0	1.0	1.0	1.0
85°	0.0	0.0	0.0	0.0	0.0
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)