

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: P1179523

Luminaire Tested: LDA2B159050R2050D010 2LBD1H

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1179523
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: LDA2B159050R2050D010 2LBD1H
Description: 1500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

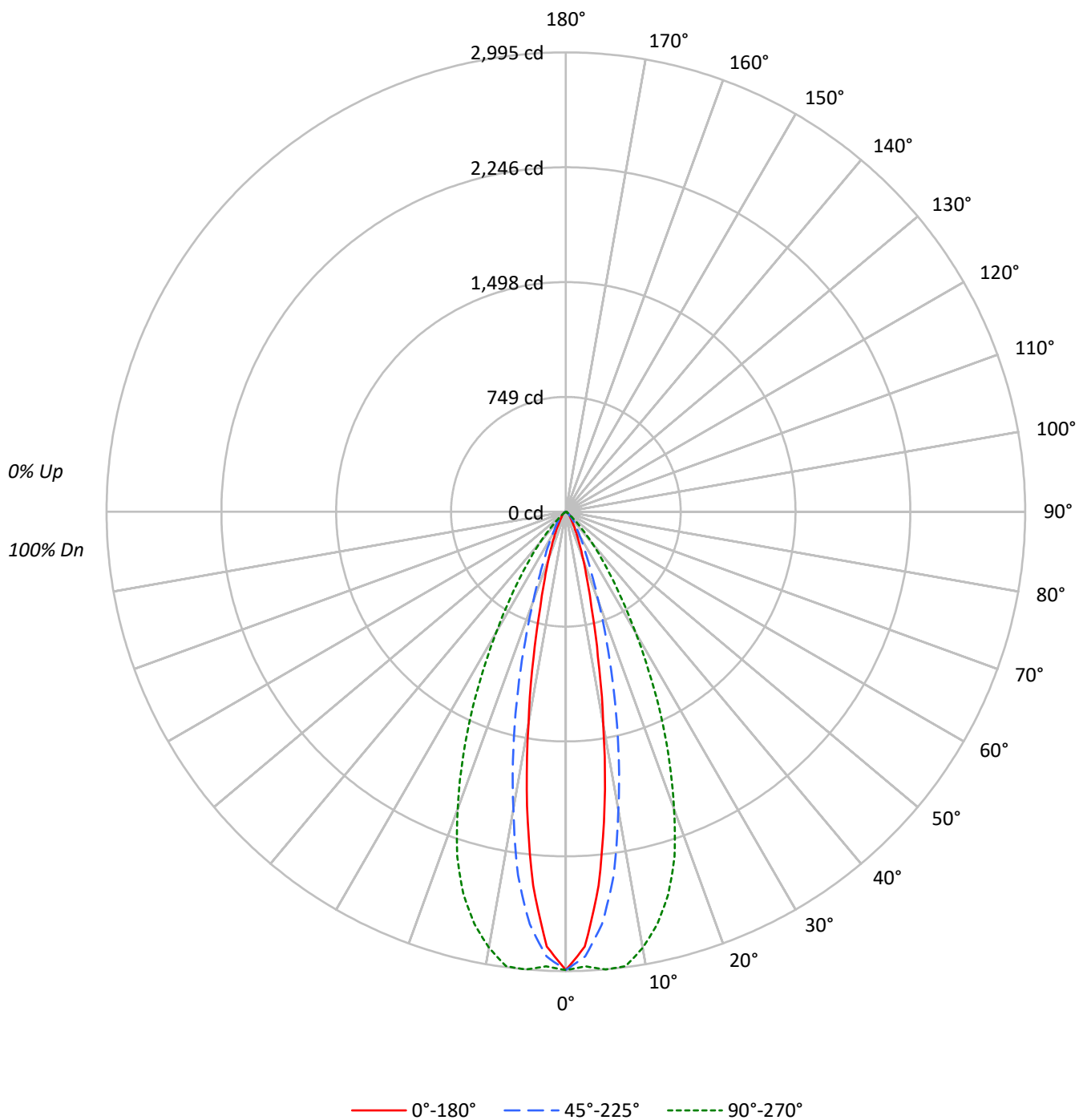
Lumens per Lamp: N/A
Luminaire Lumens: 1073.9 lumens
Efficiency: N/A
Efficacy: 76.2 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.8 / 0.47
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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: P1179523

CATALOG NUMBER: LDA2B159050R2050D010 2LBD1H

Luminous Intensity Polar Plot



TEST NUMBER: P1179523

CATALOG NUMBER: LDA2B159050R2050D010 2LBD1H

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°	1473968	1473968	1473968
5°	1211818	1337066	1483263
10°	703416	988018	1446108
15°	327707	615319	1317878
20°	172681	324413	1083178
25°	95645	175666	798909
30°	56057	102885	516704
35°	36017	69022	306141
40°	28080	46564	170090
45°	24350	27839	75633
50°	22028	19112	27708
55°	14967	13934	12902
60°	11051	9867	9867
65°	8755	7238	8755
70°	7212	7212	7212
75°	7053	7053	7053
80°	7103	7103	7103
85°	6793	6793	6793

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 75633 cd/sqm

TEST NUMBER: P1179523

CATALOG NUMBER: LDA2B159050R2050D010 2LBD1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	237.9	22.2
10°-20°	389.5	36.3
20°-30°	259.8	24.2
30°-40°	117.1	10.9
40°-50°	42.9	4.0
50°-60°	15.0	1.4
60°-70°	7.0	0.7
70°-80°	3.7	0.3
80°-90°	1.0	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°	887.2	82.6
0°-40°	1004.3	93.5
0°-60°	1062.2	98.9
0°-90°	1073.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1073.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2988	2988	2988	2988	2988	
5°	2447	2523	2700	2897	2995	200
15°	642	754	1205	2036	2580	192
25°	176	204	323	880	1468	85
35°	60	67	115	248	508	40
45°	35	35	40	62	108	27
55°	17	16	16	14	15	16
65°	8	8	6	6	8	8
75°	4	4	4	4	4	4
85°	1	1	1	1	1	1
90°	0	0	0	0	0	

TEST NUMBER: P1179523

CATALOG NUMBER: LDA2B159050R2050D010 2LBD1H

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2987.6	2987.6	2987.6	2987.6	2987.6
2.5°	2836.8	2866.7	2901.6	2937.7	2966.4
5°	2446.9	2522.9	2699.8	2896.6	2995.0
7.5°	1934.8	2046.9	2390.8	2779.5	2987.6
10°	1404.1	1547.4	1972.2	2576.4	2886.6
12.5°	965.5	1100.1	1582.2	2319.8	2753.3
15°	641.6	753.7	1204.7	2035.7	2580.2
17.5°	452.2	528.2	875.8	1725.5	2357.2
20°	328.9	380.0	617.9	1421.5	2063.1
22.5°	239.2	277.8	439.8	1136.2	1765.4
25°	175.7	204.3	322.7	879.6	1467.6
27.5°	130.8	153.2	241.7	667.8	1169.9
30°	98.4	117.1	180.6	492.1	907.0
32.5°	76.0	88.5	138.3	351.3	686.5
35°	59.8	67.3	114.6	247.9	508.3
37.5°	49.8	54.8	94.7	173.2	372.5
40°	43.6	47.3	72.3	123.3	264.1
42.5°	38.6	41.1	52.3	88.5	171.9
45°	34.9	34.9	39.9	62.3	108.4
47.5°	32.4	28.7	31.1	43.6	63.5
50°	28.7	23.7	24.9	29.9	36.1
52.5°	22.4	19.9	19.9	19.9	21.2
55°	17.4	16.2	16.2	13.7	15.0
57.5°	13.7	13.7	12.5	11.2	12.5
60°	11.2	11.2	10.0	8.7	10.0
62.5°	8.7	8.7	7.5	7.5	8.7
65°	7.5	7.5	6.2	6.2	7.5
67.5°	6.2	6.2	6.2	5.0	6.2
70°	5.0	5.0	5.0	5.0	5.0
72.5°	3.7	3.7	5.0	3.7	3.7
75°	3.7	3.7	3.7	3.7	3.7
77.5°	2.5	2.5	2.5	2.5	2.5
80°	2.5	2.5	2.5	2.5	2.5
82.5°	1.2	1.2	1.2	1.2	1.2
85°	1.2	1.2	1.2	1.2	1.2
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)