

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: P1179611

Luminaire Tested: LDA2B159730R2050D010 2LBDC1MW

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1179611
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: LDA2B159730R2050D010 2LBDC1MW
Description: 1500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 97 CRI LEDS AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

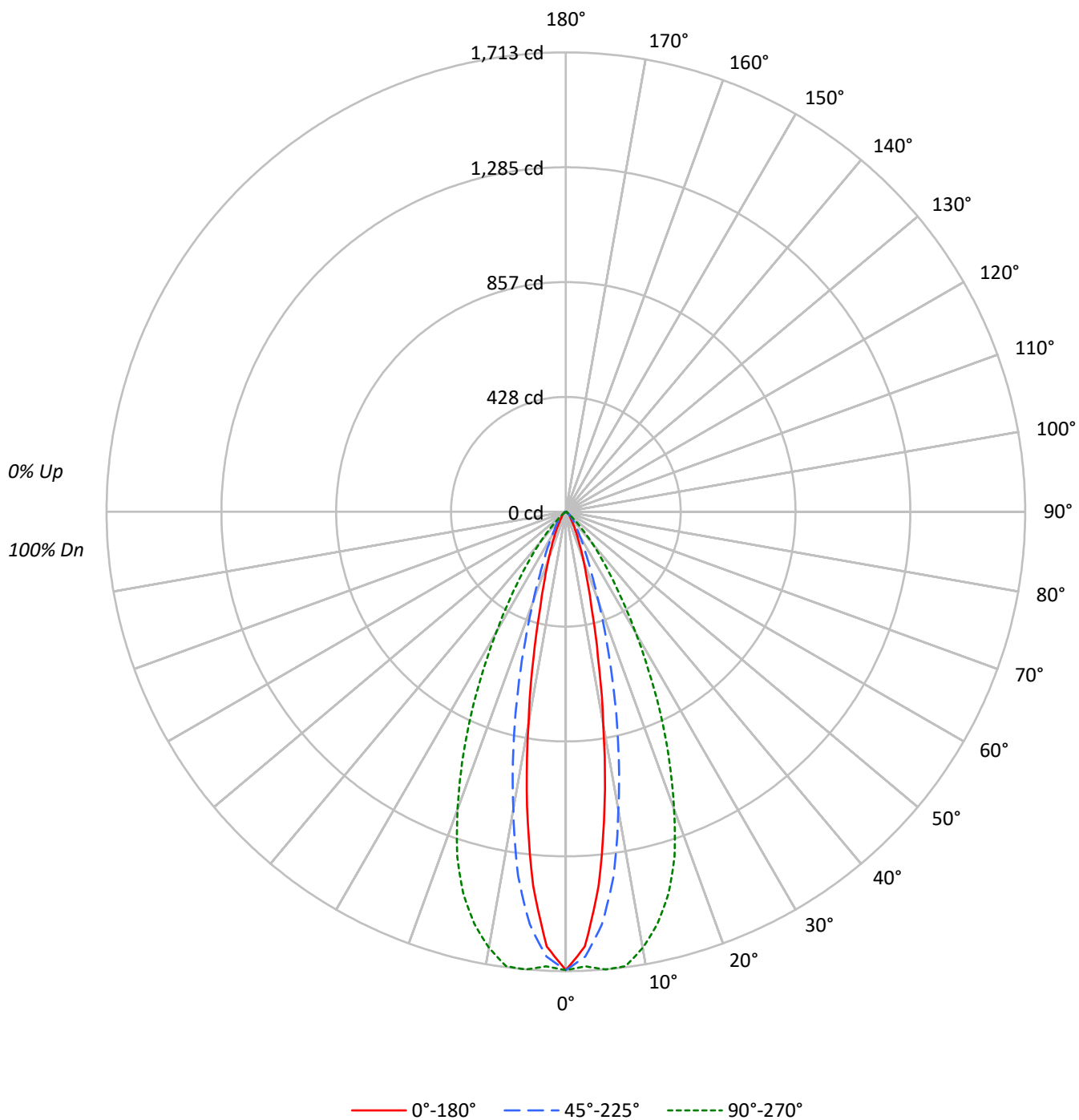
Lumens per Lamp: N/A
Luminaire Lumens: 614.3 lumens
Efficiency: N/A
Efficacy: 43.6 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.8 / 0.47
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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: P1179611

CATALOG NUMBER: LDA2B159730R2050D010 2LBDC1MW

Luminous Intensity Polar Plot





TEST NUMBER: P1179611

CATALOG NUMBER: LDA2B159730R2050D010 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	30	10	0		
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	114	112	109	107	112	109	107	106	105	104	102	102	100	99	98	97	96	95		
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	93	91	90		
3	105	99	95	91	103	98	94	90	95	92	89	93	90	88	90	88	86	85		
4	100	94	89	85	99	93	88	85	91	87	84	89	85	83	87	84	82	80		
5	96	89	84	80	95	88	83	80	86	82	79	85	81	78	83	80	78	76		
6	92	85	80	76	91	84	79	76	83	78	75	81	77	75	80	77	74	73		
7	89	81	76	72	88	80	75	72	79	75	71	78	74	71	77	73	71	70		
8	85	77	72	69	84	77	72	69	76	71	68	75	71	68	74	70	68	67		
9	82	74	69	66	81	74	69	66	73	68	65	72	68	65	71	68	65	64		
10	79	71	66	63	79	71	66	63	70	66	63	69	65	62	69	65	62	61		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	843155	843155	843155
5°	693196	764858	848506
10°	402381	565197	827256
15°	187451	352020	753890
20°	98810	185596	619634
25°	54709	100490	456994
30°	32073	58848	295553
35°	20598	39510	175144
40°	16037	26599	97314
45°	13954	15908	43259
50°	12588	10976	15888
55°	8602	7999	7397
60°	6315	5624	5624
65°	5020	4203	5020
70°	4183	4183	4183
75°	4003	4003	4003
80°	3978	3978	3978
85°	3962	3962	3962

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 43259 cd/sqm

TEST NUMBER: P1179611

CATALOG NUMBER: LDA2B159730R2050D010 2LBDC1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.1	22.2
10°-20°	222.8	36.3
20°-30°	148.6	24.2
30°-40°	67.0	10.9
40°-50°	24.5	4.0
50°-60°	8.6	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°	507.5	82.6
0°-40°	574.5	93.5
0°-60°	607.6	98.9
0°-90°	614.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	614.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1709	1709	1709	1709	1709	
5°	1400	1443	1544	1657	1713	114
15°	367	431	689	1164	1476	110
25°	100	117	185	503	840	49
35°	34	38	66	142	291	23
45°	20	20	23	36	62	16
55°	10	9	9	8	9	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: P1179611

CATALOG NUMBER: LDA2B159730R2050D010 2LBDC1MW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1709.0	1709.0	1709.0	1709.0	1709.0
2.5°	1622.8	1639.9	1659.9	1680.5	1696.9
5°	1399.7	1443.2	1544.4	1657.0	1713.3
7.5°	1106.8	1171.0	1367.7	1590.0	1709.0
10°	803.2	885.2	1128.2	1473.8	1651.3
12.5°	552.3	629.3	905.1	1327.0	1575.0
15°	367.0	431.2	689.2	1164.5	1476.0
17.5°	258.7	302.2	501.0	987.1	1348.4
20°	188.2	217.4	353.5	813.2	1180.2
22.5°	136.8	158.9	251.6	650.0	1009.9
25°	100.5	116.9	184.6	503.2	839.5
27.5°	74.8	87.7	138.3	382.0	669.2
30°	56.3	67.0	103.3	281.5	518.8
32.5°	43.5	50.6	79.1	201.0	392.7
35°	34.2	38.5	65.6	141.8	290.8
37.5°	28.5	31.4	54.2	99.1	213.1
40°	24.9	27.1	41.3	70.6	151.1
42.5°	22.1	23.5	29.9	50.6	98.4
45°	20.0	20.0	22.8	35.6	62.0
47.5°	18.5	16.4	17.8	24.9	36.3
50°	16.4	13.5	14.3	17.1	20.7
52.5°	12.8	11.4	11.4	11.4	12.1
55°	10.0	9.3	9.3	7.8	8.6
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	3.6	3.6	4.3
67.5°	3.6	3.6	3.6	2.9	3.6
70°	2.9	2.9	2.9	2.9	2.9
72.5°	2.1	2.1	2.9	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)