

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: P1178590

Luminaire Tested: LDA2B059730R2040D010 2LBDC1MW

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1178590
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2206-683-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/17/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDA2B059730R2040D010 2LBDC1MW
Description: 500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 97 CRI LEDS AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

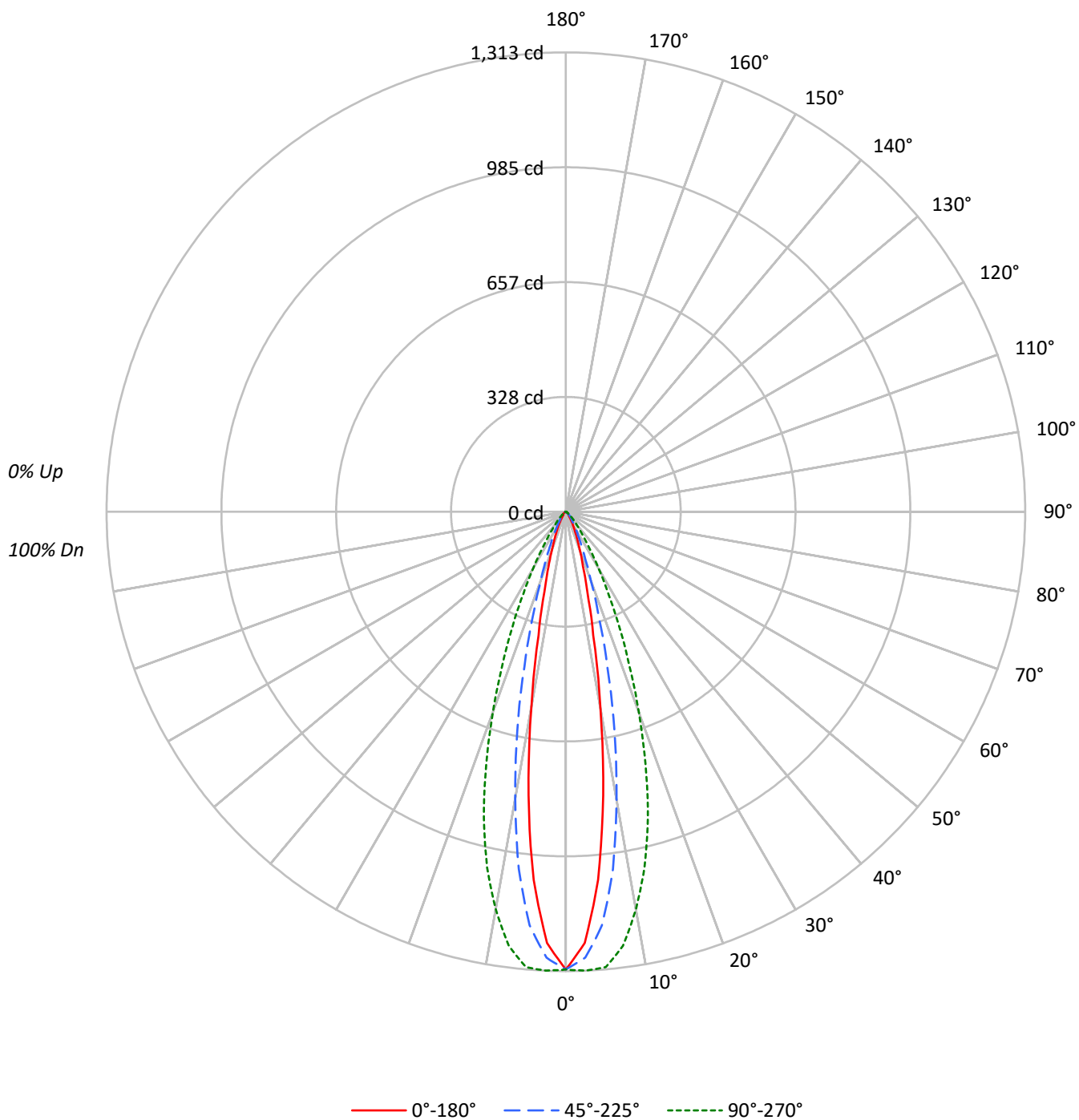
Lumens per Lamp: N/A
Luminaire Lumens: 368.8 lumens
Efficiency: N/A
Efficacy: 52.7 lumens/watt
Spacing Criteria (0/90/45): 0.31 / 0.63 / 0.43
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 7
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: P1178590

CATALOG NUMBER: LDA2B059730R2040D010 2LBDC1MW

Luminous Intensity Polar Plot



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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	94	92	92	92	91
3	106	100	96	93	104	99	95	92	96	93	91	94	92	89	92	90	88	88	88	87
4	102	95	91	87	100	94	90	87	92	89	86	90	87	85	89	86	84	84	84	83
5	98	91	86	83	97	90	86	83	89	85	82	87	84	81	86	83	81	81	81	79
6	94	87	82	79	93	87	82	79	85	81	78	84	80	78	83	80	77	77	77	76
7	91	84	79	76	90	83	79	75	82	78	75	81	77	75	80	77	74	74	74	73
8	88	81	76	73	87	80	76	72	79	75	72	78	75	72	77	74	72	72	72	70
9	85	78	73	70	84	77	73	70	76	72	70	76	72	69	75	72	69	69	69	68
10	83	75	70	67	82	75	70	67	74	70	67	73	70	67	73	69	67	67	67	66

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	645515	645515	645515
5°	523228	587659	647188
10°	284452	417260	577922
15°	120336	234135	462601
20°	61428	110098	319845
25°	34023	56342	194937
30°	19027	31276	106303
35°	11022	18912	54145
40°	8179	14362	30012
45°	7187	9698	17792
50°	7599	6447	9441
55°	5505	4473	5161
60°	3552	3158	3158
65°	2802	2802	2802
70°	2308	2308	2308
75°	2287	2287	2287
80°	2273	2273	2273
85°	2264	2264	2264

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 17792 cd/sqm

TEST NUMBER: P1178590

CATALOG NUMBER: LDA2B059730R2040D010 2LBDC1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.9	27.6
10°-20°	144.2	39.1
20°-30°	74.3	20.1
30°-40°	27.3	7.4
40°-50°	12.0	3.3
50°-60°	5.3	1.4
60°-70°	2.3	0.6
70°-80°	1.2	0.3
80°-90°	0.3	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°	320.4	86.9
0°-40°	347.7	94.3
0°-60°	365.0	99.0
0°-90°	368.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	368.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1308	1308	1308	1308	1308	
5°	1056	1092	1187	1271	1307	85
15°	236	274	458	765	906	72
25°	62	70	104	238	358	30
35°	18	21	31	55	90	12
45°	10	12	14	17	26	8
55°	6	6	5	6	6	6
65°	2	2	2	2	2	2
75°	1	1	1	1	1	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1308.4	1308.4	1308.4	1308.4	1308.4
2.5°	1233.6	1248.3	1275.8	1302.0	1312.8
5°	1056.5	1092.3	1186.6	1270.6	1306.8
7.5°	818.1	877.0	1029.8	1187.0	1251.5
10°	567.8	627.5	832.9	1058.9	1153.6
12.5°	362.1	420.2	641.9	916.8	1039.8
15°	235.6	273.8	458.4	764.8	905.7
17.5°	163.5	190.6	312.0	603.7	757.3
20°	117.0	136.1	209.7	460.4	609.2
22.5°	84.8	97.9	145.6	336.3	473.5
25°	62.5	70.0	103.5	237.6	358.1
27.5°	46.2	50.9	74.8	163.9	261.8
30°	33.4	37.4	54.9	112.6	186.6
32.5°	24.3	27.9	41.0	78.0	130.1
35°	18.3	21.1	31.4	54.9	89.9
37.5°	15.1	16.7	25.9	39.8	63.7
40°	12.7	14.3	22.3	29.4	46.6
42.5°	11.1	13.1	18.3	21.9	35.0
45°	10.3	11.9	13.9	16.7	25.5
47.5°	10.3	9.9	10.7	12.7	17.9
50°	9.9	8.4	8.4	9.9	12.3
52.5°	8.4	6.8	6.8	7.2	8.4
55°	6.4	5.6	5.2	5.6	6.0
57.5°	4.8	4.8	4.4	4.0	4.4
60°	3.6	3.6	3.2	3.2	3.2
62.5°	2.8	2.8	2.8	2.4	2.8
65°	2.4	2.4	2.4	2.0	2.4
67.5°	2.0	2.0	1.6	2.0	2.0
70°	1.6	1.6	1.6	1.6	1.6
72.5°	1.2	1.2	1.2	1.2	1.2
75°	1.2	1.2	1.2	1.2	1.2
77.5°	0.8	0.8	0.8	0.8	0.8
80°	0.8	0.8	0.8	0.8	0.8
82.5°	0.4	0.4	0.4	0.4	0.4
85°	0.4	0.4	0.4	0.4	0.4
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)