

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: P1178400

Luminaire Tested: LDA2B059030R2050D010 2LBD1MB

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1178400
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: LDA2B059030R2050D010 2LBD1MB
Description: 500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

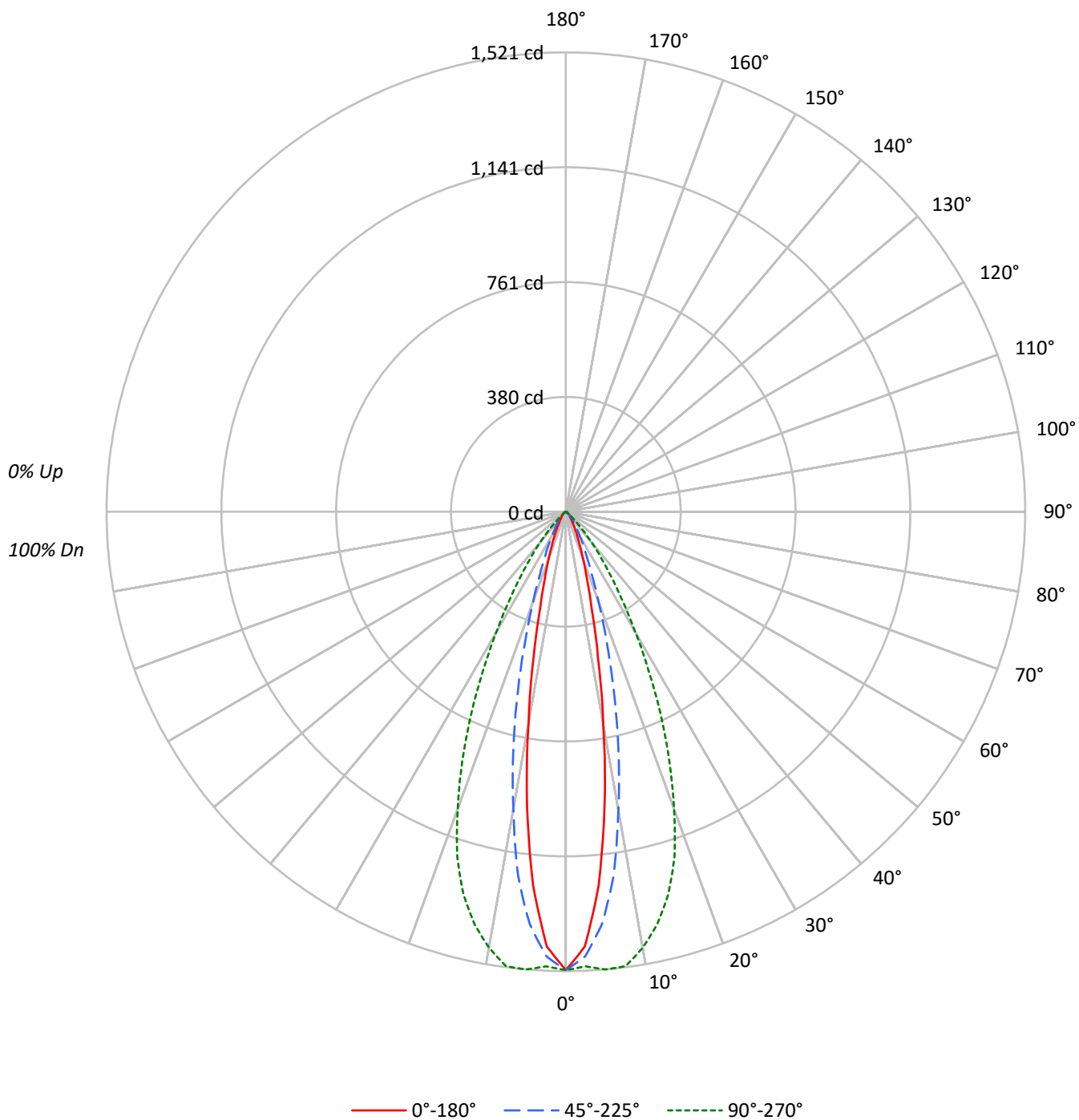
Lumens per Lamp: N/A
Luminaire Lumens: 545.4 lumens
Efficiency: N/A
Efficacy: 77.9 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.8 / 0.47
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P1178400

CATALOG NUMBER: LDA2B059030R2050D010 2LBD1MB

Luminous Intensity Polar Plot



TEST NUMBER: P1178400

CATALOG NUMBER: LDA2B059030R2050D010 2LBD1MB

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	748578	748578	748578
5°	615443	679032	753319
10°	357244	501774	734426
15°	166459	312486	669307
20°	87679	164753	550121
25°	48557	89221	405769
30°	28484	52240	262397
35°	18309	35053	155510
40°	14233	23636	86366
45°	12350	14094	38375
50°	11206	9748	14046
55°	7655	7053	6537
60°	5624	5032	5032
65°	4436	3736	4436
70°	3606	3606	3606
75°	3622	3622	3622
80°	3694	3694	3694
85°	3396	3396	3396

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 38375 cd/sqm

TEST NUMBER: P1178400

CATALOG NUMBER: LDA2B059030R2050D010 2LBD1MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.8	22.2
10°-20°	197.8	36.3
20°-30°	131.9	24.2
30°-40°	59.5	10.9
40°-50°	21.8	4.0
50°-60°	7.6	1.4
60°-70°	3.6	0.7
70°-80°	1.9	0.3
80°-90°	0.5	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°	450.6	82.6
0°-40°	510.0	93.5
0°-60°	539.4	98.9
0°-90°	545.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	545.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1517	1517	1517	1517	1517	
5°	1243	1281	1371	1471	1521	101
15°	326	383	612	1034	1310	98
25°	89	104	164	447	745	43
35°	30	34	58	126	258	20
45°	18	18	20	32	55	14
55°	9	8	8	7	8	8
65°	4	4	3	3	4	4
75°	2	2	2	2	2	2
85°	1	1	1	1	1	1
90°	0	0	0	0	0	

TEST NUMBER: P1178400

CATALOG NUMBER: LDA2B059030R2050D010 2LBD1MB

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1517.3	1517.3	1517.3	1517.3	1517.3
2.5°	1440.7	1455.9	1473.6	1492.0	1506.5
5°	1242.7	1281.3	1371.1	1471.1	1521.1
7.5°	982.6	1039.6	1214.2	1411.6	1517.3
10°	713.1	785.8	1001.6	1308.5	1466.0
12.5°	490.4	558.7	803.6	1178.1	1398.3
15°	325.9	382.8	611.8	1033.9	1310.4
17.5°	229.7	268.3	444.8	876.3	1197.1
20°	167.0	193.0	313.8	721.9	1047.8
22.5°	121.5	141.1	223.4	577.0	896.6
25°	89.2	103.8	163.9	446.7	745.4
27.5°	66.4	77.8	122.7	339.1	594.1
30°	50.0	59.5	91.7	249.9	460.6
32.5°	38.6	44.9	70.2	178.4	348.6
35°	30.4	34.2	58.2	125.9	258.2
37.5°	25.3	27.8	48.1	87.9	189.2
40°	22.1	24.0	36.7	62.6	134.1
42.5°	19.6	20.9	26.6	44.9	87.3
45°	17.7	17.7	20.2	31.6	55.0
47.5°	16.5	14.6	15.8	22.1	32.3
50°	14.6	12.0	12.7	15.2	18.3
52.5°	11.4	10.1	10.1	10.1	10.8
55°	8.9	8.2	8.2	7.0	7.6
57.5°	7.0	7.0	6.3	5.7	6.3
60°	5.7	5.7	5.1	4.4	5.1
62.5°	4.4	4.4	3.8	3.8	4.4
65°	3.8	3.8	3.2	3.2	3.8
67.5°	3.2	3.2	3.2	2.5	3.2
70°	2.5	2.5	2.5	2.5	2.5
72.5°	1.9	1.9	2.5	1.9	1.9
75°	1.9	1.9	1.9	1.9	1.9
77.5°	1.3	1.3	1.3	1.3	1.3
80°	1.3	1.3	1.3	1.3	1.3
82.5°	0.6	0.6	0.6	0.6	0.6
85°	0.6	0.6	0.6	0.6	0.6
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)