

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: P1178317

Luminaire Tested: LDA2B059024R2040D010 2LBDC1MW

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1178317
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: LDA2B059024R2040D010 2LBDC1MW
Description: 500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 2400K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

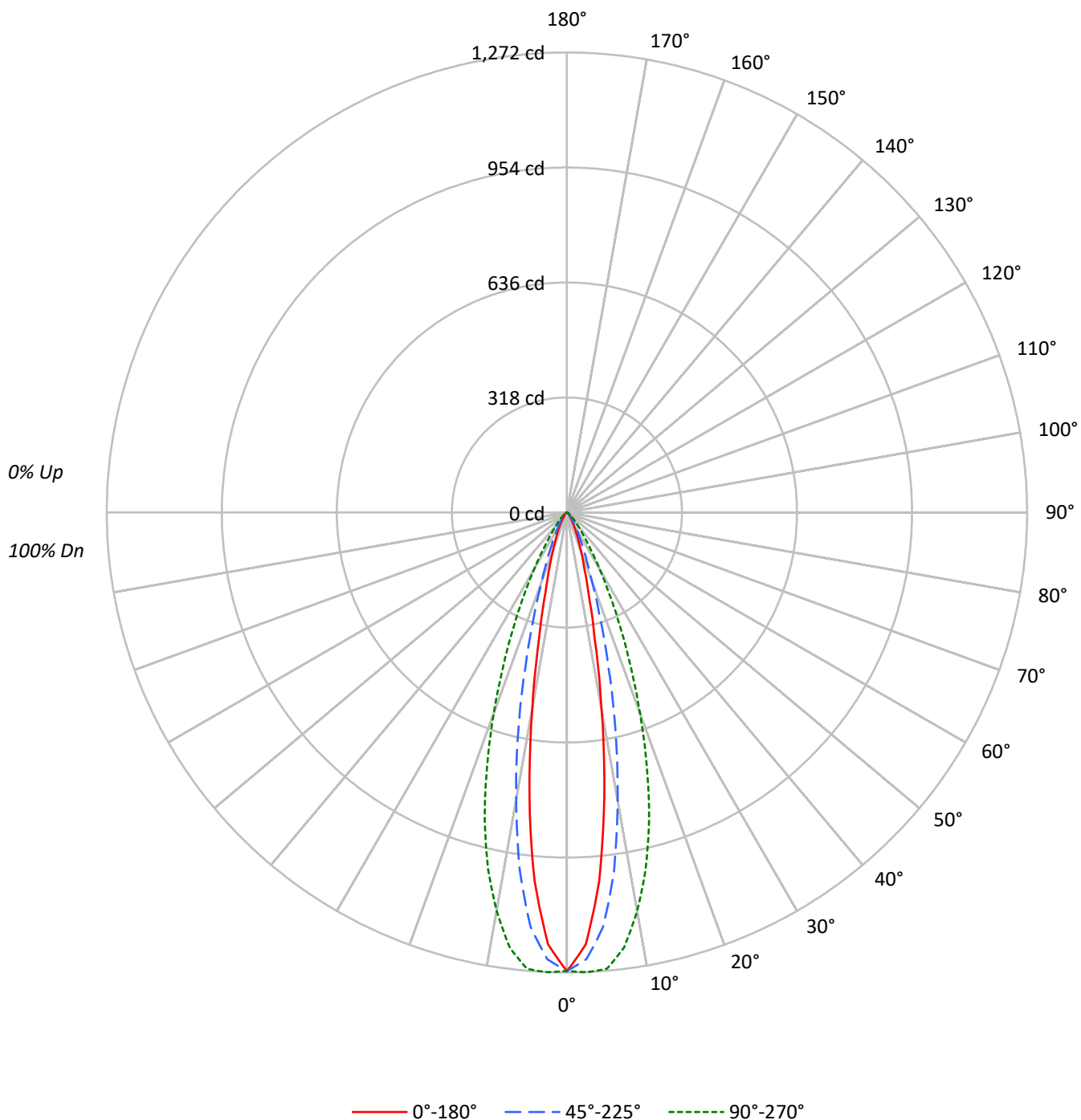
Lumens per Lamp: N/A
Luminaire Lumens: 357.4 lumens
Efficiency: N/A
Efficacy: 51.1 lumens/watt
Spacing Criteria (0/90/45): 0.31 / 0.63 / 0.43
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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: P1178317

CATALOG NUMBER: LDA2B059024R2040D010 2LBDC1MW

Luminous Intensity Polar Plot



TEST NUMBER: P1178317

CATALOG NUMBER: LDA2B059024R2040D010 2LBDC1MW

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20			
RC	80				70				50				30				10			0
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	110	108	112	110	108	106	106	104	103		102	101	100		99	98	97	95
2	110	106	102	99	108	104	101	98	101	98	96		98	96	94		95	94	92	91
3	106	100	96	93	104	99	95	92	96	93	91		94	92	89		92	90	88	87
4	102	95	91	87	100	94	90	87	92	89	86		90	87	85		89	86	84	83
5	98	91	86	83	97	90	86	83	89	85	82		87	84	81		86	83	81	79
6	94	87	83	79	93	87	82	79	85	81	78		84	80	78		83	80	77	76
7	91	84	79	76	90	83	79	75	82	78	75		81	77	75		80	77	74	73
8	88	81	76	73	87	80	76	72	79	75	72		78	75	72		77	74	72	70
9	85	78	73	70	84	77	73	70	76	72	70		76	72	69		75	72	69	68
10	83	75	70	67	82	75	70	67	74	70	67		73	70	67		73	69	67	66

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	625583	625583	625583
5°	507083	569533	627230
10°	275685	404385	560087
15°	116608	226933	448299
20°	59538	106685	309975
25°	32934	54600	188949
30°	18458	30307	103056
35°	10660	18370	52519
40°	7922	13911	29046
45°	6977	9419	17234
50°	7368	6217	9210
55°	5333	4301	4989
60°	3454	3059	3059
65°	2685	2685	2685
70°	2164	2164	2164
75°	2287	2287	2287
80°	2273	2273	2273
85°	2264	2264	2264

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 17234 cd/sqm

TEST NUMBER: P1178317

CATALOG NUMBER: LDA2B059024R2040D010 2LBDC1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.8	27.6
10°-20°	139.7	39.1
20°-30°	72.0	20.1
30°-40°	26.5	7.4
40°-50°	11.6	3.3
50°-60°	5.1	1.4
60°-70°	2.2	0.6
70°-80°	1.1	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°	310.5	86.9
0°-40°	337.0	94.3
0°-60°	353.7	99.0
0°-90°	357.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	357.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1268	1268	1268	1268	1268	
5°	1024	1059	1150	1231	1266	82
15°	228	265	444	741	878	70
25°	60	68	100	230	347	29
35°	18	20	30	53	87	12
45°	10	12	14	16	25	8
55°	6	5	5	5	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	

TEST NUMBER: P1178317

CATALOG NUMBER: LDA2B059024R2040D010 2LBDC1MW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1268.0	1268.0	1268.0	1268.0	1268.0
2.5°	1195.5	1209.8	1236.4	1261.9	1272.3
5°	1023.9	1058.6	1150.0	1231.4	1266.5
7.5°	792.9	850.0	998.1	1150.4	1212.9
10°	550.3	608.2	807.2	1026.2	1118.0
12.5°	350.9	407.3	622.1	888.5	1007.7
15°	228.3	265.3	444.3	741.2	877.7
17.5°	158.5	184.7	302.4	585.0	733.9
20°	113.4	131.9	203.2	446.2	590.4
22.5°	82.1	94.9	141.1	325.9	458.9
25°	60.5	67.9	100.3	230.2	347.1
27.5°	44.7	49.4	72.5	158.9	253.8
30°	32.4	36.3	53.2	109.1	180.9
32.5°	23.5	27.0	39.7	75.6	126.1
35°	17.7	20.4	30.5	53.2	87.2
37.5°	14.7	16.2	25.1	38.6	61.7
40°	12.3	13.9	21.6	28.5	45.1
42.5°	10.8	12.7	17.7	21.2	33.9
45°	10.0	11.6	13.5	16.2	24.7
47.5°	10.0	9.6	10.4	12.3	17.4
50°	9.6	8.1	8.1	9.6	12.0
52.5°	8.1	6.6	6.6	6.9	8.1
55°	6.2	5.4	5.0	5.4	5.8
57.5°	4.6	4.6	4.2	3.9	4.2
60°	3.5	3.5	3.1	3.1	3.1
62.5°	2.7	2.7	2.7	2.3	2.7
65°	2.3	2.3	2.3	1.9	2.3
67.5°	1.9	1.9	1.5	1.9	1.9
70°	1.5	1.5	1.5	1.5	1.5
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)