

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: P1178512

Luminaire Tested: LDA2B059050R2040D010 2LBDC1MW

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1178512
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: LDA2B059050R2040D010 2LBDC1MW
Description: 500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

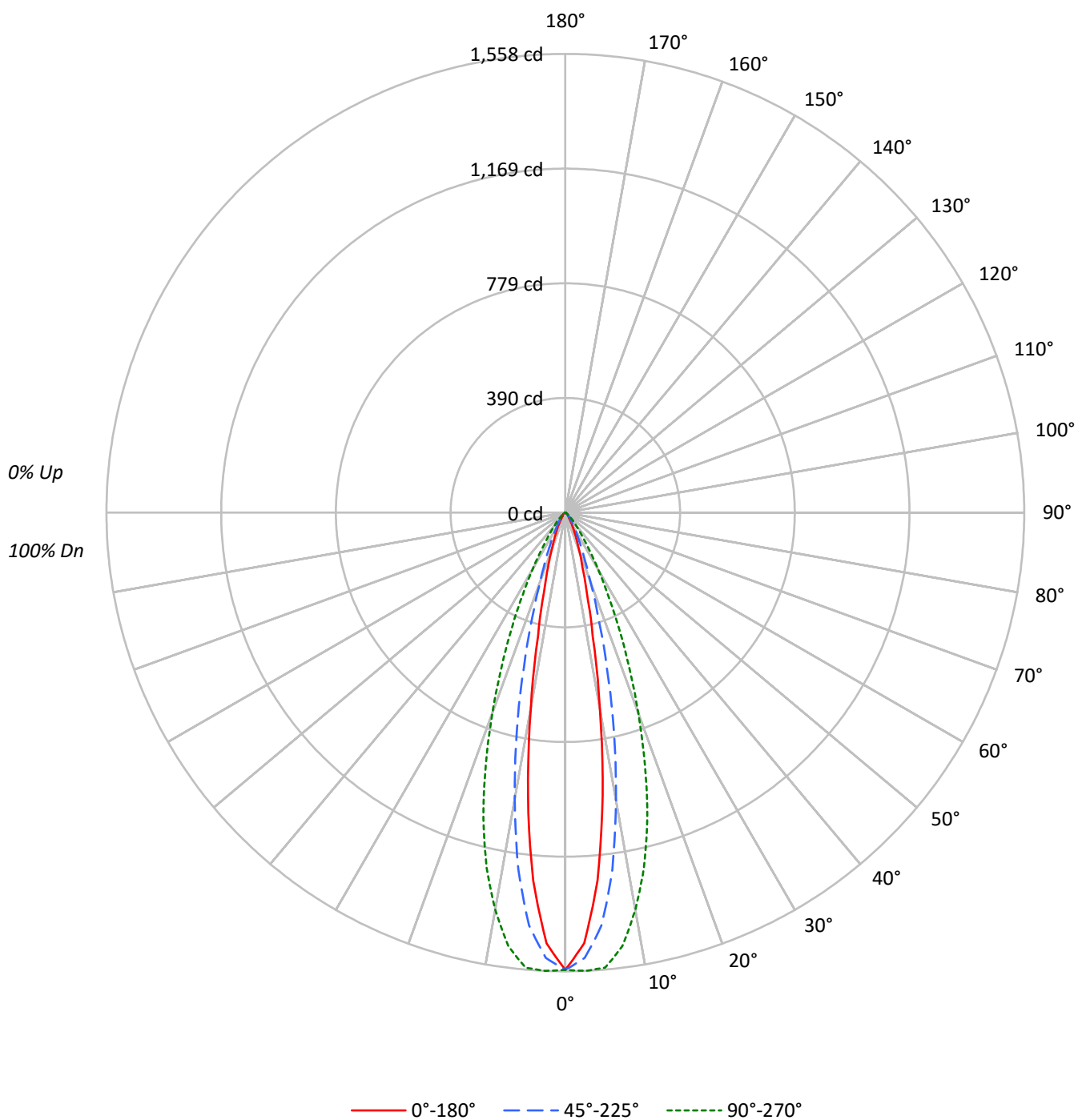
Lumens per Lamp: N/A
Luminaire Lumens: 437.6 lumens
Efficiency: N/A
Efficacy: 62.5 lumens/watt
Spacing Criteria (0/90/45): 0.31 / 0.63 / 0.43
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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: P1178512

CATALOG NUMBER: LDA2B059050R2040D010 2LBDC1MW

Luminous Intensity Polar Plot



TEST NUMBER: P1178512

CATALOG NUMBER: LDA2B059050R2040D010 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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	114	112	110	108	112	110	108	106	106	104	103		102	101	100		99
2	110	106	102	99	108	104	101	98	101	98	96		98	96	94		95
3	106	100	96	93	104	99	95	92	96	93	91		94	92	89		92
4	102	96	91	88	100	94	90	87	92	89	86		90	87	85		89
5	98	91	86	83	97	90	86	83	89	85	82		87	84	81		86
6	95	87	83	79	93	87	82	79	85	81	78		84	80	78		83
7	91	84	79	76	90	83	79	75	82	78	75		81	77	75		80
8	88	81	76	73	87	80	76	72	79	75	72		78	75	72		77
9	85	78	73	70	84	77	73	70	76	72	70		76	72	69		75
10	83	75	70	67	82	75	70	67	74	70	67		73	70	67		73

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	766043	766043	766043
5°	620890	697406	768028
10°	337605	495161	685832
15°	142810	277857	548971
20°	72873	130679	379593
25°	40337	66848	231355
30°	22616	37143	126185
35°	13070	22465	64264
40°	9725	17003	35551
45°	8582	11512	21071
50°	9057	7599	11206
55°	6537	5247	6107
60°	4144	3750	3750
65°	3269	3269	3269
70°	2741	2741	2741
75°	2669	2669	2669
80°	2557	2557	2557
85°	2830	2830	2830

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 21071 cd/sqm

TEST NUMBER: P1178512

CATALOG NUMBER: LDA2B059050R2040D010 2LBDC1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.0	27.6
10°-20°	171.1	39.1
20°-30°	88.1	20.1
30°-40°	32.4	7.4
40°-50°	14.2	3.3
50°-60°	6.2	1.4
60°-70°	2.7	0.6
70°-80°	1.3	0.3
80°-90°	0.4	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°	380.2	86.9
0°-40°	412.6	94.3
0°-60°	433.1	99.0
0°-90°	437.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	437.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1553	1553	1553	1553	1553	
5°	1254	1296	1408	1508	1551	101
15°	280	325	544	908	1075	85
25°	74	83	123	282	425	36
35°	22	25	37	65	107	15
45°	12	14	16	20	30	10
55°	8	7	6	7	7	7
65°	3	3	3	2	3	3
75°	1	1	1	1	1	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	

TEST NUMBER: P1178512

CATALOG NUMBER: LDA2B059050R2040D010 2LBDC1MW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1552.7	1552.7	1552.7	1552.7	1552.7
2.5°	1463.9	1481.4	1513.9	1545.1	1557.9
5°	1253.7	1296.2	1408.2	1507.8	1550.8
7.5°	970.9	1040.8	1222.1	1408.6	1485.1
10°	673.9	744.7	988.4	1256.6	1369.0
12.5°	429.7	498.7	761.7	1088.0	1233.9
15°	279.6	324.9	544.0	907.6	1074.8
17.5°	194.1	226.2	370.2	716.4	898.6
20°	138.8	161.5	248.9	546.4	723.0
22.5°	100.6	116.2	172.8	399.0	561.9
25°	74.1	83.1	122.8	281.9	425.0
27.5°	54.8	60.4	88.8	194.6	310.7
30°	39.7	44.4	65.2	133.6	221.5
32.5°	28.8	33.1	48.6	92.6	154.4
35°	21.7	25.0	37.3	65.2	106.7
37.5°	17.9	19.8	30.7	47.2	75.6
40°	15.1	17.0	26.4	34.9	55.2
42.5°	13.2	15.6	21.7	26.0	41.6
45°	12.3	14.2	16.5	19.8	30.2
47.5°	12.3	11.8	12.7	15.1	21.2
50°	11.8	9.9	9.9	11.8	14.6
52.5°	9.9	8.0	8.0	8.5	9.9
55°	7.6	6.6	6.1	6.6	7.1
57.5°	5.7	5.7	5.2	4.7	5.2
60°	4.2	4.2	3.8	3.8	3.8
62.5°	3.3	3.3	3.3	2.8	3.3
65°	2.8	2.8	2.8	2.4	2.8
67.5°	2.4	2.4	1.9	2.4	2.4
70°	1.9	1.9	1.9	1.9	1.9
72.5°	1.4	1.4	1.4	1.4	1.4
75°	1.4	1.4	1.4	1.4	1.4
77.5°	0.9	0.9	0.9	0.9	0.9
80°	0.9	0.9	0.9	0.9	0.9
82.5°	0.5	0.5	0.5	0.5	0.5
85°	0.5	0.5	0.5	0.5	0.5
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)