

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: P1178523

Luminaire Tested: LDA2B059050R2050D010 2LBDC1MB

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1178523
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: LDA2B059050R2050D010 2LBDC1MB
Description: 500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

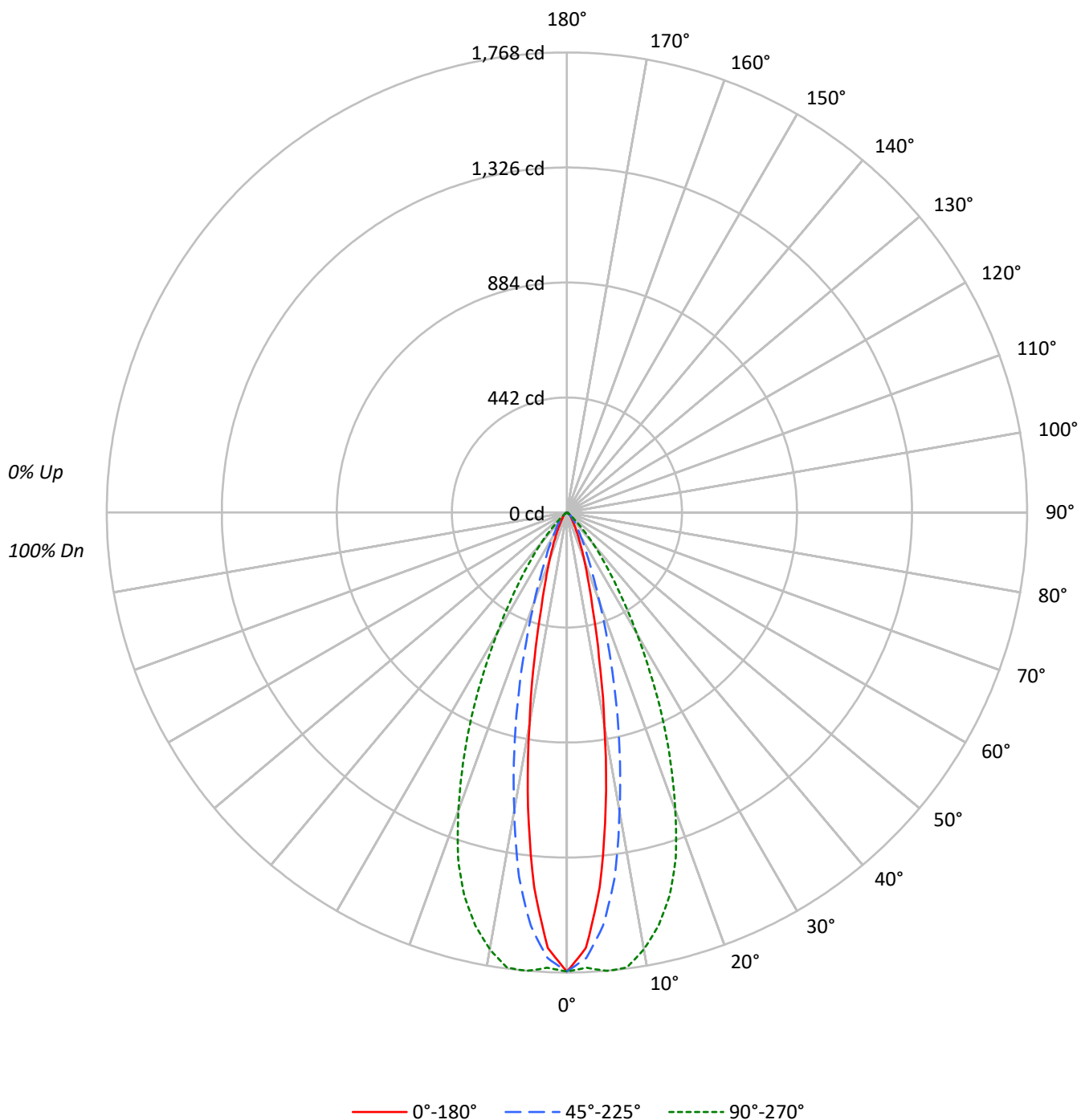
Lumens per Lamp: N/A
Luminaire Lumens: 634.1 lumens
Efficiency: N/A
Efficacy: 90.6 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.8 / 0.47
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P1178523

CATALOG NUMBER: LDA2B059050R2050D010 2LBDC1MB

Luminous Intensity Polar Plot



TEST NUMBER: P1178523

CATALOG NUMBER: LDA2B059050R2050D010 2LBDC1MB

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	870290	870290	870290
5°	715532	789472	875843
10°	415356	583383	853908
15°	193529	363359	778152
20°	101960	191581	639585
25°	56451	103701	471746
30°	33099	60785	305066
35°	21261	40775	180745
40°	16552	27500	100470
45°	14373	16396	44654
50°	12971	11283	16348
55°	8860	8257	7569
60°	6512	5822	5822
65°	5137	4319	5137
70°	4183	4183	4183
75°	4194	4194	4194
80°	4262	4262	4262
85°	3962	3962	3962

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 44654 cd/sqm

TEST NUMBER: P1178523

CATALOG NUMBER: LDA2B059050R2050D010 2LBDC1MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.5	22.2
10°-20°	230.0	36.3
20°-30°	153.4	24.2
30°-40°	69.2	10.9
40°-50°	25.3	4.0
50°-60°	8.9	1.4
60°-70°	4.1	0.7
70°-80°	2.2	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°	523.9	82.6
0°-40°	593.0	93.5
0°-60°	627.2	98.9
0°-90°	634.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	634.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1764	1764	1764	1764	1764	
5°	1445	1490	1594	1710	1768	118
15°	379	445	711	1202	1524	113
25°	104	121	190	519	867	50
35°	35	40	68	146	300	23
45°	21	21	24	37	64	16
55°	10	10	10	8	9	10
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: P1178523

CATALOG NUMBER: LDA2B059050R2050D010 2LBDC1MB

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1764.0	1764.0	1764.0	1764.0	1764.0
2.5°	1675.0	1692.7	1713.3	1734.6	1751.5
5°	1444.8	1489.7	1594.1	1710.3	1768.5
7.5°	1142.4	1208.6	1411.7	1641.2	1764.0
10°	829.1	913.7	1164.5	1521.3	1704.5
12.5°	570.1	649.6	934.3	1369.7	1625.7
15°	378.9	445.1	711.4	1202.0	1523.5
17.5°	267.0	311.9	517.2	1018.9	1391.8
20°	194.2	224.4	364.9	839.4	1218.2
22.5°	141.2	164.0	259.7	670.9	1042.4
25°	103.7	120.6	190.5	519.4	866.6
27.5°	77.2	90.5	142.7	394.3	690.8
30°	58.1	69.1	106.7	290.6	535.5
32.5°	44.9	52.2	81.7	207.4	405.3
35°	35.3	39.7	67.7	146.4	300.1
37.5°	29.4	32.4	55.9	102.3	220.0
40°	25.7	28.0	42.7	72.8	156.0
42.5°	22.8	24.3	30.9	52.2	101.5
45°	20.6	20.6	23.5	36.8	64.0
47.5°	19.1	16.9	18.4	25.7	37.5
50°	16.9	14.0	14.7	17.7	21.3
52.5°	13.2	11.8	11.8	11.8	12.5
55°	10.3	9.6	9.6	8.1	8.8
57.5°	8.1	8.1	7.4	6.6	7.4
60°	6.6	6.6	5.9	5.1	5.9
62.5°	5.1	5.1	4.4	4.4	5.1
65°	4.4	4.4	3.7	3.7	4.4
67.5°	3.7	3.7	3.7	2.9	3.7
70°	2.9	2.9	2.9	2.9	2.9
72.5°	2.2	2.2	2.9	2.2	2.2
75°	2.2	2.2	2.2	2.2	2.2
77.5°	1.5	1.5	1.5	1.5	1.5
80°	1.5	1.5	1.5	1.5	1.5
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)