

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: P1178519

Luminaire Tested: LDA2B059050R2050D010 2LBD1MW

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1178519
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 2LBD1MW
Description: 500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

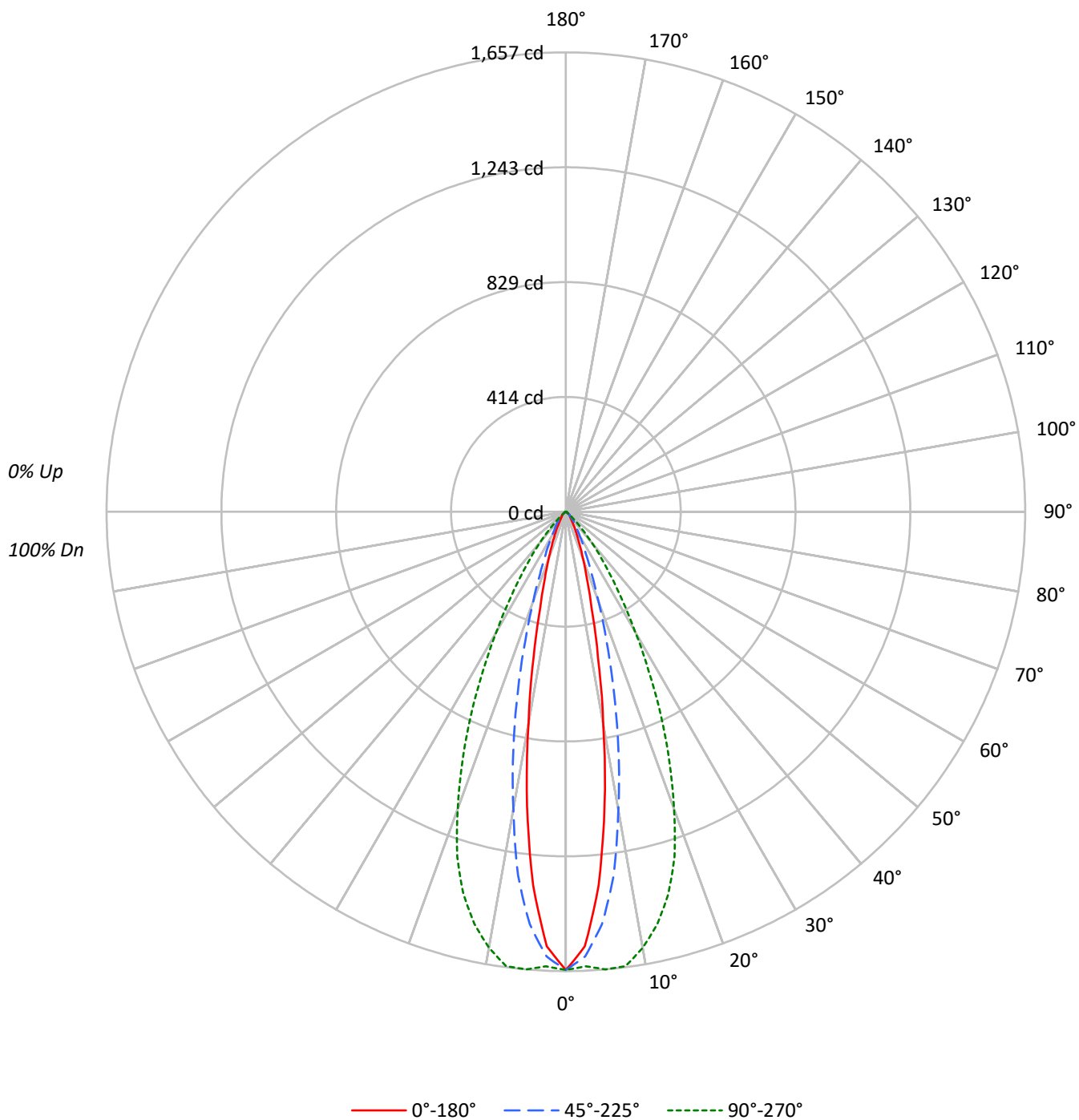
Lumens per Lamp: N/A
Luminaire Lumens: 594.1 lumens
Efficiency: N/A
Efficacy: 84.9 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.8 / 0.47
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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

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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
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°	815379	815379	815379
5°	670365	739650	820524
10°	389105	546561	800003
15°	181271	340425	729016
20°	95502	179453	599211
25°	52912	97169	441970
30°	30991	56912	285811
35°	19936	38185	169362
40°	15521	25762	94094
45°	13466	15420	41863
50°	12204	10592	15351
55°	8257	7741	7139
60°	6118	5427	5427
65°	4786	3969	4786
70°	4039	4039	4039
75°	4003	4003	4003
80°	3978	3978	3978
85°	3962	3962	3962

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 41863 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.6	22.1
10°-20°	215.5	36.3
20°-30°	143.7	24.2
30°-40°	64.8	10.9
40°-50°	23.7	4.0
50°-60°	8.3	1.4
60°-70°	3.9	0.7
70°-80°	2.1	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°	490.8	82.6
0°-40°	555.6	93.5
0°-60°	587.6	98.9
0°-90°	594.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	594.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1653	1653	1653	1653	1653	
5°	1354	1396	1494	1602	1657	111
15°	355	417	666	1126	1427	106
25°	97	113	178	487	812	47
35°	33	37	63	137	281	22
45°	19	19	22	34	60	15
55°	10	9	9	8	8	9
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	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1652.7	1652.7	1652.7	1652.7	1652.7
2.5°	1569.3	1585.8	1605.1	1625.1	1641.0
5°	1353.6	1395.6	1493.5	1602.4	1656.8
7.5°	1070.3	1132.4	1322.6	1537.6	1652.7
10°	776.7	856.0	1091.0	1425.3	1596.9
12.5°	534.1	608.6	875.3	1283.3	1523.1
15°	354.9	417.0	666.5	1126.1	1427.3
17.5°	250.2	292.2	484.5	954.5	1304.0
20°	181.9	210.2	341.8	786.4	1141.3
22.5°	132.3	153.7	243.3	628.5	976.6
25°	97.2	113.0	178.5	486.6	811.9
27.5°	72.4	84.8	133.7	369.4	647.2
30°	54.4	64.8	99.9	272.2	501.7
32.5°	42.0	48.9	76.5	194.4	379.7
35°	33.1	37.2	63.4	137.2	281.2
37.5°	27.6	30.3	52.4	95.8	206.1
40°	24.1	26.2	40.0	68.2	146.1
42.5°	21.4	22.7	28.9	48.9	95.1
45°	19.3	19.3	22.1	34.5	60.0
47.5°	17.9	15.9	17.2	24.1	35.1
50°	15.9	13.1	13.8	16.5	20.0
52.5°	12.4	11.0	11.0	11.0	11.7
55°	9.6	9.0	9.0	7.6	8.3
57.5°	7.6	7.6	6.9	6.2	6.9
60°	6.2	6.2	5.5	4.8	5.5
62.5°	4.8	4.8	4.1	4.1	4.8
65°	4.1	4.1	3.4	3.4	4.1
67.5°	3.4	3.4	3.4	2.8	3.4
70°	2.8	2.8	2.8	2.8	2.8
72.5°	2.1	2.1	2.8	2.1	2.1
75°	2.1	2.1	2.1	2.1	2.1
77.5°	1.4	1.4	1.4	1.4	1.4
80°	1.4	1.4	1.4	1.4	1.4
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)