

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: P1178389

Luminaire Tested: LDA2B059030R2040D010 2LBD1MW

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1178389
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: LDA2B059030R2040D010 2LBD1MW
Description: 500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

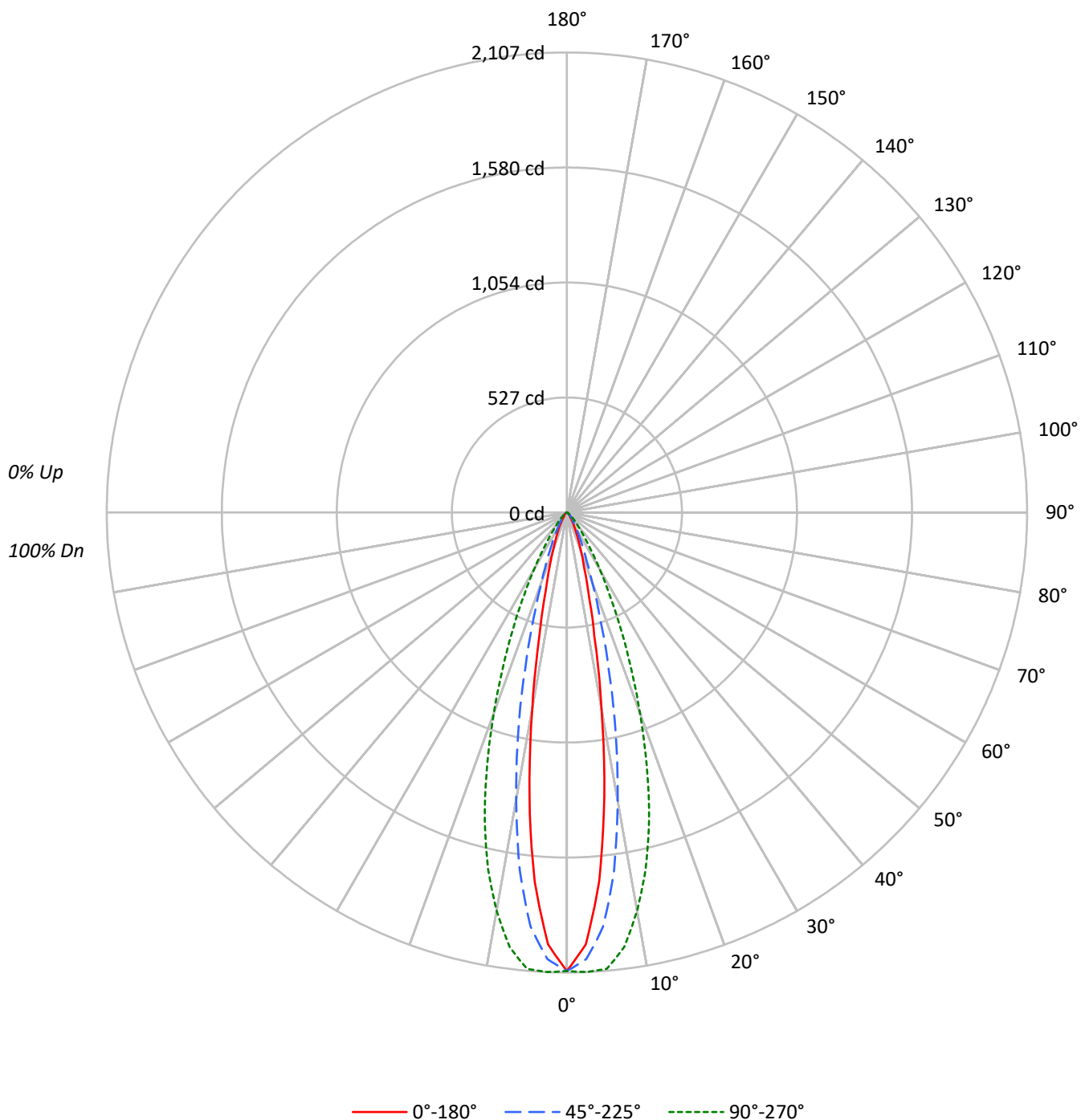
Lumens per Lamp: N/A
Luminaire Lumens: 591.8 lumens
Efficiency: N/A
Efficacy: 84.5 lumens/watt
Spacing Criteria (0/90/45): 0.31 / 0.63 / 0.43
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1035961	1035961	1035961
5°	839740	943147	1038680
10°	456536	669650	927501
15°	193121	375770	742398
20°	98600	176723	513317
25°	54600	90365	312901
30°	30535	50189	170621
35°	17707	30415	86910
40°	13138	23057	48110
45°	11582	15629	28537
50°	12281	10285	15197
55°	8774	7139	8257
60°	5624	5032	5032
65°	4436	4436	4436
70°	3750	3750	3750
75°	3622	3622	3622
80°	3694	3694	3694
85°	3396	3396	3396

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 28537 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.6	27.6
10°-20°	231.4	39.1
20°-30°	119.2	20.1
30°-40°	43.9	7.4
40°-50°	19.3	3.3
50°-60°	8.4	1.4
60°-70°	3.7	0.6
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°	514.2	86.9
0°-40°	558.0	94.3
0°-60°	585.7	99.0
0°-90°	591.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	591.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2100	2100	2100	2100	2100	
5°	1696	1753	1904	2039	2097	136
15°	378	439	736	1227	1454	116
25°	100	112	166	381	575	48
35°	29	34	50	88	144	20
45°	17	19	22	27	41	13
55°	10	9	8	9	10	9
65°	4	4	4	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°	2099.8	2099.8	2099.8	2099.8	2099.8
2.5°	1979.7	2003.4	2047.4	2089.6	2106.8
5°	1695.6	1753.0	1904.4	2039.1	2097.3
7.5°	1313.0	1407.5	1652.8	1905.0	2008.5
10°	911.3	1007.1	1336.7	1699.4	1851.4
12.5°	581.2	674.4	1030.1	1471.4	1668.7
15°	378.1	439.4	735.7	1227.4	1453.5
17.5°	262.5	305.9	500.7	968.8	1215.3
20°	187.8	218.4	336.6	738.9	977.7
22.5°	136.0	157.1	233.7	539.6	760.0
25°	100.3	112.4	166.0	381.3	574.8
27.5°	74.1	81.7	120.1	263.1	420.2
30°	53.6	60.0	88.1	180.7	299.5
32.5°	39.0	44.7	65.8	125.2	208.8
35°	29.4	33.8	50.5	88.1	144.3
37.5°	24.3	26.8	41.5	63.9	102.2
40°	20.4	23.0	35.8	47.3	74.7
42.5°	17.9	21.1	29.4	35.1	56.2
45°	16.6	19.2	22.4	26.8	40.9
47.5°	16.6	16.0	17.2	20.4	28.7
50°	16.0	13.4	13.4	16.0	19.8
52.5°	13.4	10.9	10.9	11.5	13.4
55°	10.2	8.9	8.3	8.9	9.6
57.5°	7.7	7.7	7.0	6.4	7.0
60°	5.7	5.7	5.1	5.1	5.1
62.5°	4.5	4.5	4.5	3.8	4.5
65°	3.8	3.8	3.8	3.2	3.8
67.5°	3.2	3.2	2.6	3.2	3.2
70°	2.6	2.6	2.6	2.6	2.6
72.5°	1.9	1.9	1.9	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)