

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: P1178428

Luminaire Tested: LDA2B059035R2040D010 2LBD1MW

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1178428
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: LDA2B059035R2040D010 2LBD1MW
Description: 500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

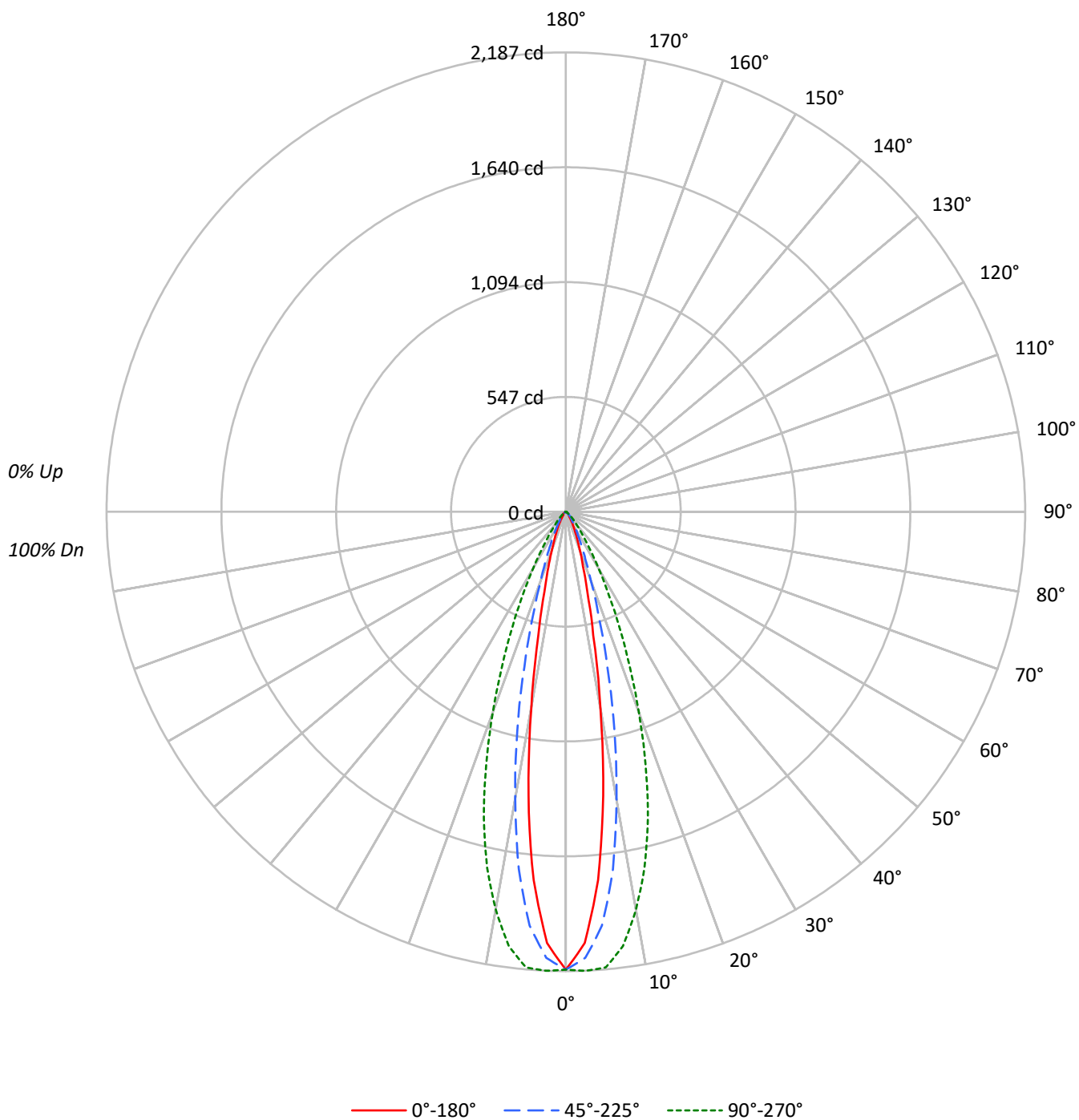
Lumens per Lamp: N/A
Luminaire Lumens: 614.4 lumens
Efficiency: N/A
Efficacy: 87.8 lumens/watt
Spacing Criteria (0/90/45): 0.31 / 0.63 / 0.43
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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
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	95	91	87	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	94	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°	1075529	1075529	1075529
5°	871782	979152	1078300
10°	473970	695200	962870
15°	200476	390123	770745
20°	102327	183444	532953
25°	56668	93848	324822
30°	31731	52126	177115
35°	18370	31560	90222
40°	13654	23894	49977
45°	12001	16187	29583
50°	12741	10669	15811
55°	9118	7397	8515
60°	5920	5230	5230
65°	4670	4670	4670
70°	3895	3895	3895
75°	3812	3812	3812
80°	3694	3694	3694
85°	3962	3962	3962

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 29583 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.9	27.6
10°-20°	240.2	39.1
20°-30°	123.7	20.1
30°-40°	45.5	7.4
40°-50°	20.0	3.3
50°-60°	8.8	1.4
60°-70°	3.8	0.6
70°-80°	1.9	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°	533.8	86.9
0°-40°	579.3	94.3
0°-60°	608.1	99.0
0°-90°	614.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	614.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2180	2180	2180	2180	2180	
5°	1760	1820	1977	2117	2177	142
15°	392	456	764	1274	1509	120
25°	104	117	172	396	597	50
35°	30	35	52	92	150	21
45°	17	20	23	28	42	14
55°	11	9	9	9	10	10
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°	2180.0	2180.0	2180.0	2180.0	2180.0
2.5°	2055.3	2079.8	2125.6	2169.3	2187.2
5°	1760.3	1819.9	1977.1	2117.0	2177.3
7.5°	1363.1	1461.3	1715.9	1977.7	2085.1
10°	946.1	1045.6	1387.7	1764.2	1922.0
12.5°	603.3	700.1	1069.4	1527.6	1732.4
15°	392.5	456.1	763.8	1274.3	1509.0
17.5°	272.5	317.6	519.8	1005.8	1261.7
20°	194.9	226.7	349.4	767.1	1015.1
22.5°	141.2	163.1	242.7	560.2	789.0
25°	104.1	116.7	172.4	395.8	596.7
27.5°	76.9	84.9	124.6	273.2	436.3
30°	55.7	62.3	91.5	187.6	310.9
32.5°	40.4	46.4	68.3	129.9	216.8
35°	30.5	35.1	52.4	91.5	149.8
37.5°	25.2	27.8	43.1	66.3	106.1
40°	21.2	23.9	37.1	49.1	77.6
42.5°	18.6	21.9	30.5	36.5	58.3
45°	17.2	19.9	23.2	27.8	42.4
47.5°	17.2	16.6	17.9	21.2	29.8
50°	16.6	13.9	13.9	16.6	20.6
52.5°	13.9	11.3	11.3	11.9	13.9
55°	10.6	9.3	8.6	9.3	9.9
57.5°	8.0	8.0	7.3	6.6	7.3
60°	6.0	6.0	5.3	5.3	5.3
62.5°	4.6	4.6	4.6	4.0	4.6
65°	4.0	4.0	4.0	3.3	4.0
67.5°	3.3	3.3	2.7	3.3	3.3
70°	2.7	2.7	2.7	2.7	2.7
72.5°	2.0	2.0	2.0	2.0	2.0
75°	2.0	2.0	2.0	2.0	2.0
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°	0.7	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)