

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: P1178354

Luminaire Tested: LDA2B059027R2040D010 2LBDC1MB

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1178354
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: LDA2B059027R2040D010 2LBDC1MB
Description: 500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 2700K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

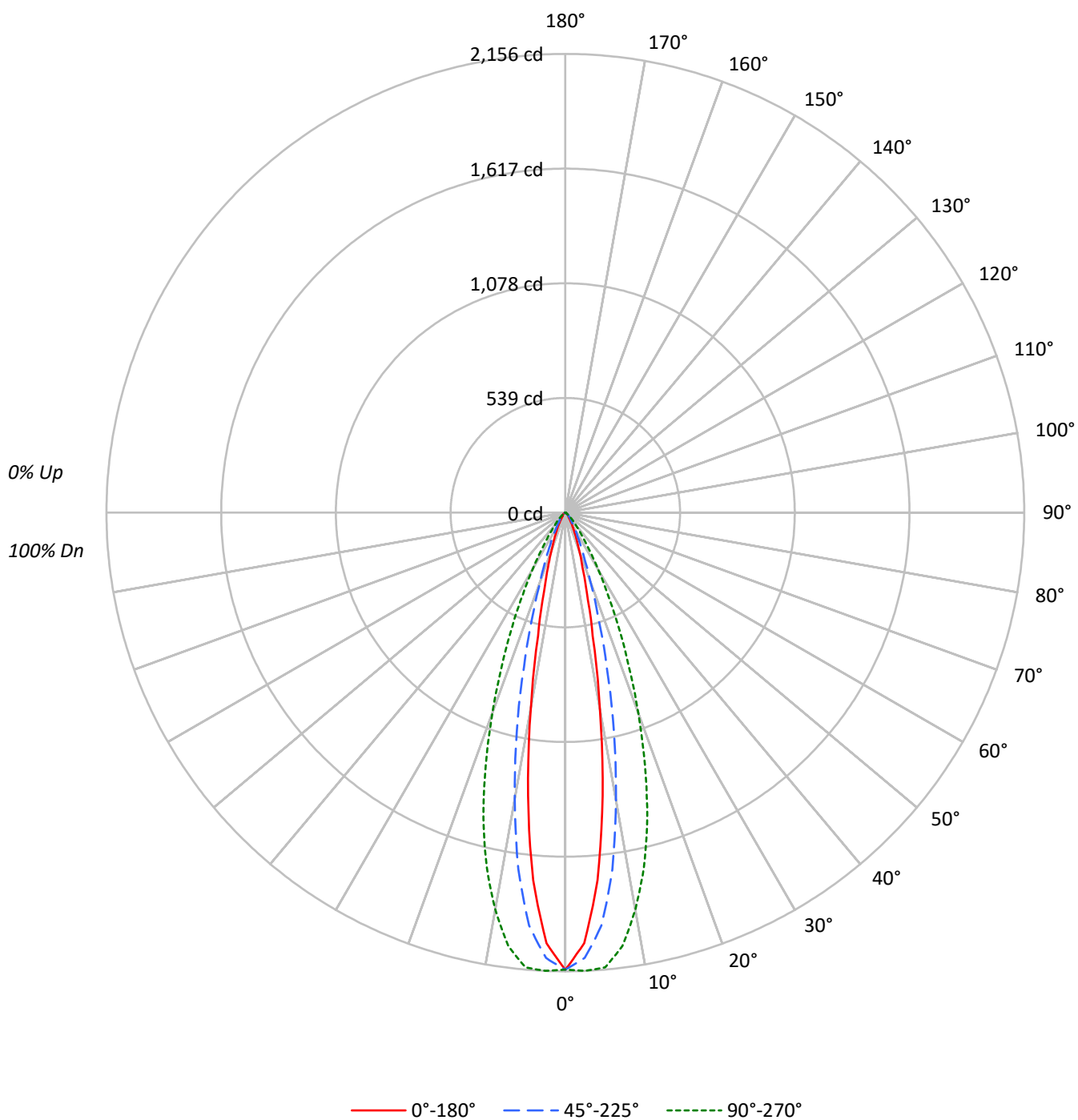
Lumens per Lamp: N/A
Luminaire Lumens: 605.5 lumens
Efficiency: N/A
Efficacy: 86.5 lumens/watt
Spacing Criteria (0/90/45): 0.31 / 0.63 / 0.43
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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			0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	114	112	110	108	112	110	108	106	106	104	103		102	101	100		99	98	97	95
2	110	106	102	99	108	104	101	98	101	98	96		98	96	94		95	94	92	91
3	106	100	96	93	104	99	95	92	96	93	91		94	92	89		92	90	88	87
4	102	95	91	87	100	94	90	87	92	89	86		90	87	85		89	86	84	83
5	98	91	86	83	97	90	86	83	89	85	82		87	84	81		86	83	81	79
6	94	87	83	79	93	87	82	79	85	81	78		84	80	78		83	80	77	76
7	91	84	79	76	90	83	79	75	82	78	75		81	77	75		80	77	74	73
8	88	81	76	73	87	80	76	72	79	75	72		78	75	72		77	74	72	70
9	85	78	73	70	84	77	73	70	76	72	70		76	72	69		75	72	69	68
10	83	75	70	67	82	75	70	67	74	70	67		73	70	67		73	69	67	66

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1059889	1059889	1059889
5°	859104	964888	1062650
10°	467107	685080	948892
15°	197564	384453	759560
20°	100857	180766	525182
25°	55852	92488	320086
30°	31276	51386	174552
35°	18129	31078	88957
40°	13460	23572	49205
45°	11861	15978	29165
50°	12511	10515	15581
55°	9032	7311	8429
60°	5822	5131	5131
65°	4553	4553	4553
70°	3750	3750	3750
75°	3812	3812	3812
80°	3694	3694	3694
85°	3962	3962	3962

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 29165 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.4	27.6
10°-20°	236.7	39.1
20°-30°	121.9	20.1
30°-40°	44.9	7.4
40°-50°	19.7	3.3
50°-60°	8.6	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°	526.0	86.9
0°-40°	570.9	94.3
0°-60°	599.2	99.0
0°-90°	605.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	605.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2148	2148	2148	2148	2148	
5°	1735	1794	1948	2086	2146	140
15°	387	450	753	1256	1487	118
25°	103	115	170	390	588	49
35°	30	35	52	90	148	20
45°	17	20	23	27	42	14
55°	10	9	8	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°	2148.3	2148.3	2148.3	2148.3	2148.3
2.5°	2025.4	2049.6	2094.7	2137.8	2155.5
5°	1734.7	1793.5	1948.3	2086.2	2145.7
7.5°	1343.3	1440.0	1690.9	1949.0	2054.8
10°	932.4	1030.4	1367.5	1738.6	1894.1
12.5°	594.6	690.0	1053.9	1505.4	1707.3
15°	386.8	449.5	752.7	1255.8	1487.1
17.5°	268.5	313.0	512.2	991.2	1243.4
20°	192.1	223.5	344.3	755.9	1000.3
22.5°	139.2	160.7	239.1	552.1	777.5
25°	102.6	115.0	169.9	390.1	588.0
27.5°	75.8	83.6	122.8	269.2	429.9
30°	54.9	61.4	90.2	184.9	306.4
32.5°	39.9	45.7	67.3	128.1	213.7
35°	30.1	34.6	51.6	90.2	147.7
37.5°	24.8	27.4	42.5	65.3	104.5
40°	20.9	23.5	36.6	48.3	76.4
42.5°	18.3	21.6	30.1	35.9	57.5
45°	17.0	19.6	22.9	27.4	41.8
47.5°	17.0	16.3	17.6	20.9	29.4
50°	16.3	13.7	13.7	16.3	20.3
52.5°	13.7	11.1	11.1	11.8	13.7
55°	10.5	9.1	8.5	9.1	9.8
57.5°	7.8	7.8	7.2	6.5	7.2
60°	5.9	5.9	5.2	5.2	5.2
62.5°	4.6	4.6	4.6	3.9	4.6
65°	3.9	3.9	3.9	3.3	3.9
67.5°	3.3	3.3	2.6	3.3	3.3
70°	2.6	2.6	2.6	2.6	2.6
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)