

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: P1178356

Luminaire Tested: LDA2B059027R2040D010 2LBDC1MW

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1178356
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 2LBDC1MW
Description: 500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 2700K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

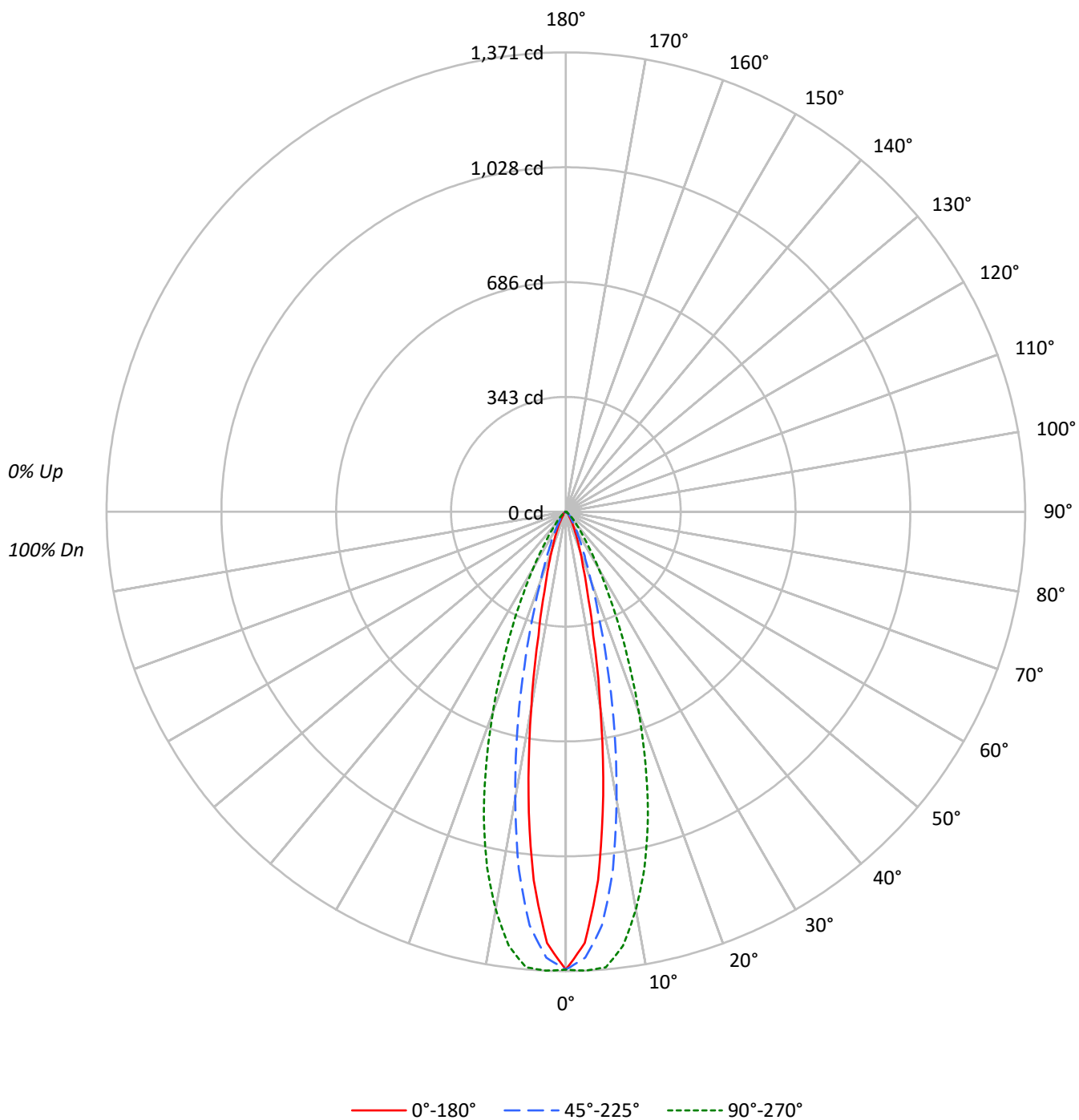
Lumens per Lamp: N/A
Luminaire Lumens: 385.0 lumens
Efficiency: N/A
Efficacy: 55.0 lumens/watt
Spacing Criteria (0/90/45): 0.31 / 0.63 / 0.43
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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	100	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	96	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	95	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	71
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°	674080	674080	674080
5°	546405	613660	675813
10°	297077	435696	603472
15°	125648	244504	483082
20°	64158	114980	334021
25°	35493	58791	203592
30°	19882	32643	111032
35°	11504	19755	56554
40°	8566	15006	31300
45°	7535	10117	18559
50°	7982	6678	9901
55°	5677	4645	5333
60°	3651	3256	3256
65°	2918	2918	2918
70°	2452	2452	2452
75°	2287	2287	2287
80°	2273	2273	2273
85°	2264	2264	2264

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 18559 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.5	27.6
10°-20°	150.5	39.1
20°-30°	77.5	20.1
30°-40°	28.5	7.4
40°-50°	12.5	3.3
50°-60°	5.5	1.4
60°-70°	2.4	0.6
70°-80°	1.2	0.3
80°-90°	0.3	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°	334.6	86.9
0°-40°	363.1	94.3
0°-60°	381.1	99.0
0°-90°	385.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	385.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1366	1366	1366	1366	1366	
5°	1103	1141	1239	1327	1365	89
15°	246	286	479	799	946	75
25°	65	73	108	248	374	31
35°	19	22	33	57	94	13
45°	11	12	14	18	27	9
55°	7	6	5	6	6	6
65°	2	2	2	2	2	3
75°	1	1	1	1	1	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1366.3	1366.3	1366.3	1366.3	1366.3
2.5°	1288.2	1303.5	1332.2	1359.6	1370.9
5°	1103.3	1140.7	1239.1	1326.8	1364.6
7.5°	854.3	915.8	1075.4	1239.6	1306.9
10°	593.0	655.3	869.7	1105.7	1204.6
12.5°	378.1	438.8	670.3	957.4	1085.8
15°	246.0	285.9	478.7	798.7	945.8
17.5°	170.8	199.0	325.8	630.4	790.8
20°	122.2	142.1	219.0	480.8	636.2
22.5°	88.5	102.2	152.1	351.1	494.5
25°	65.2	73.1	108.0	248.1	374.0
27.5°	48.2	53.2	78.1	171.2	273.4
30°	34.9	39.1	57.3	117.6	194.9
32.5°	25.3	29.1	42.8	81.4	135.9
35°	19.1	22.0	32.8	57.3	93.9
37.5°	15.8	17.5	27.0	41.6	66.5
40°	13.3	15.0	23.3	30.7	48.6
42.5°	11.6	13.7	19.1	22.9	36.6
45°	10.8	12.5	14.5	17.5	26.6
47.5°	10.8	10.4	11.2	13.3	18.7
50°	10.4	8.7	8.7	10.4	12.9
52.5°	8.7	7.1	7.1	7.5	8.7
55°	6.6	5.8	5.4	5.8	6.2
57.5°	5.0	5.0	4.6	4.2	4.6
60°	3.7	3.7	3.3	3.3	3.3
62.5°	2.9	2.9	2.9	2.5	2.9
65°	2.5	2.5	2.5	2.1	2.5
67.5°	2.1	2.1	1.7	2.1	2.1
70°	1.7	1.7	1.7	1.7	1.7
72.5°	1.2	1.2	1.2	1.2	1.2
75°	1.2	1.2	1.2	1.2	1.2
77.5°	0.8	0.8	0.8	0.8	0.8
80°	0.8	0.8	0.8	0.8	0.8
82.5°	0.4	0.4	0.4	0.4	0.4
85°	0.4	0.4	0.4	0.4	0.4
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)