

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: P1178369

Luminaire Tested: LDA2B059027R2050D010 2LBDC1MW

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1178369
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: LDA2B059027R2050D010 2LBDC1MW
Description: 500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 2700K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

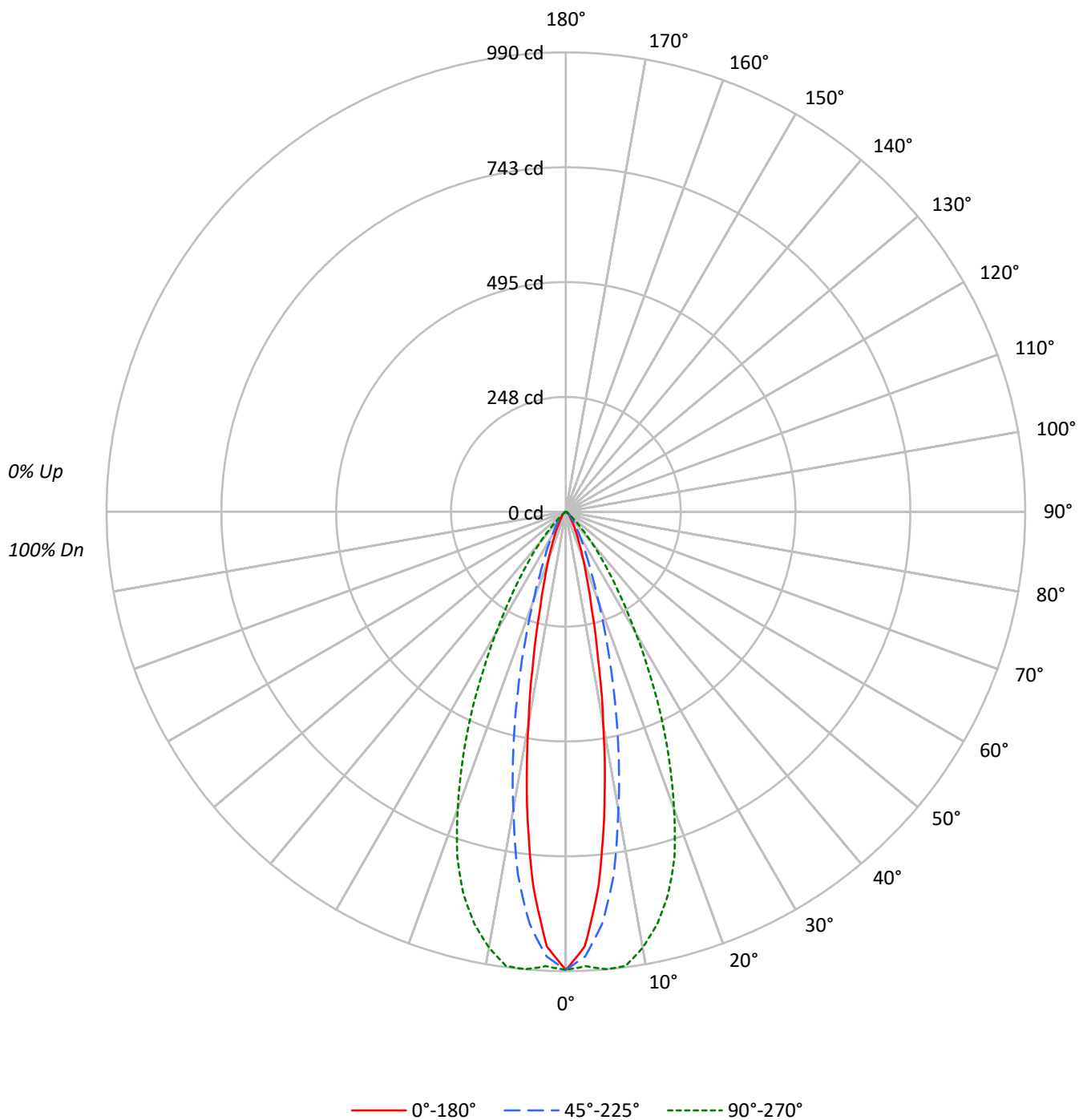
Lumens per Lamp: N/A
Luminaire Lumens: 354.9 lumens
Efficiency: N/A
Efficacy: 50.7 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.8 / 0.47
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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		91
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	63		69

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	487096	487096	487096
5°	400456	441859	490145
10°	232451	326484	477878
15°	108282	203336	435479
20°	57070	107210	357962
25°	31573	58029	264017
30°	18515	34010	170735
35°	11925	22827	101184
40°	9274	15393	56225
45°	8024	9210	24978
50°	7292	6294	9134
55°	4989	4645	4215
60°	3651	3256	3256
65°	2918	2452	2918
70°	2308	2308	2308
75°	2287	2287	2287
80°	2273	2273	2273
85°	2264	2264	2264

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 24978 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.6	22.2
10°-20°	128.7	36.3
20°-30°	85.9	24.2
30°-40°	38.7	10.9
40°-50°	14.2	4.0
50°-60°	5.0	1.4
60°-70°	2.3	0.7
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°	293.2	82.6
0°-40°	331.9	93.5
0°-60°	351.0	98.9
0°-90°	354.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	354.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	987	987	987	987	987	
5°	809	834	892	957	990	66
15°	212	249	398	673	853	63
25°	58	68	107	291	485	28
35°	20	22	38	82	168	13
45°	12	12	13	21	36	9
55°	6	5	5	4	5	5
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°	987.3	987.3	987.3	987.3	987.3
2.5°	937.4	947.3	958.9	970.8	980.3
5°	808.6	833.7	892.2	957.2	989.7
7.5°	639.4	676.4	790.1	918.5	987.3
10°	464.0	511.3	651.7	851.4	953.9
12.5°	319.1	363.5	522.9	766.6	909.9
15°	212.0	249.1	398.1	672.7	852.6
17.5°	149.4	174.6	289.4	570.2	778.9
20°	108.7	125.6	204.2	469.8	681.8
22.5°	79.0	91.8	145.3	375.5	583.4
25°	58.0	67.5	106.6	290.7	485.0
27.5°	43.2	50.6	79.9	220.7	386.6
30°	32.5	38.7	59.7	162.6	299.7
32.5°	25.1	29.2	45.7	116.1	226.8
35°	19.8	22.2	37.9	81.9	168.0
37.5°	16.5	18.1	31.3	57.2	123.1
40°	14.4	15.6	23.9	40.8	87.3
42.5°	12.8	13.6	17.3	29.2	56.8
45°	11.5	11.5	13.2	20.6	35.8
47.5°	10.7	9.5	10.3	14.4	21.0
50°	9.5	7.8	8.2	9.9	11.9
52.5°	7.4	6.6	6.6	6.6	7.0
55°	5.8	5.4	5.4	4.5	4.9
57.5°	4.5	4.5	4.1	3.7	4.1
60°	3.7	3.7	3.3	2.9	3.3
62.5°	2.9	2.9	2.5	2.5	2.9
65°	2.5	2.5	2.1	2.1	2.5
67.5°	2.1	2.1	2.1	1.6	2.1
70°	1.6	1.6	1.6	1.6	1.6
72.5°	1.2	1.2	1.6	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)