

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: P1178330

Luminaire Tested: LDA2B059024R2050D010 2LBDC1MW

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1178330
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: LDA2B059024R2050D010 2LBDC1MW
Description: 500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 2400K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

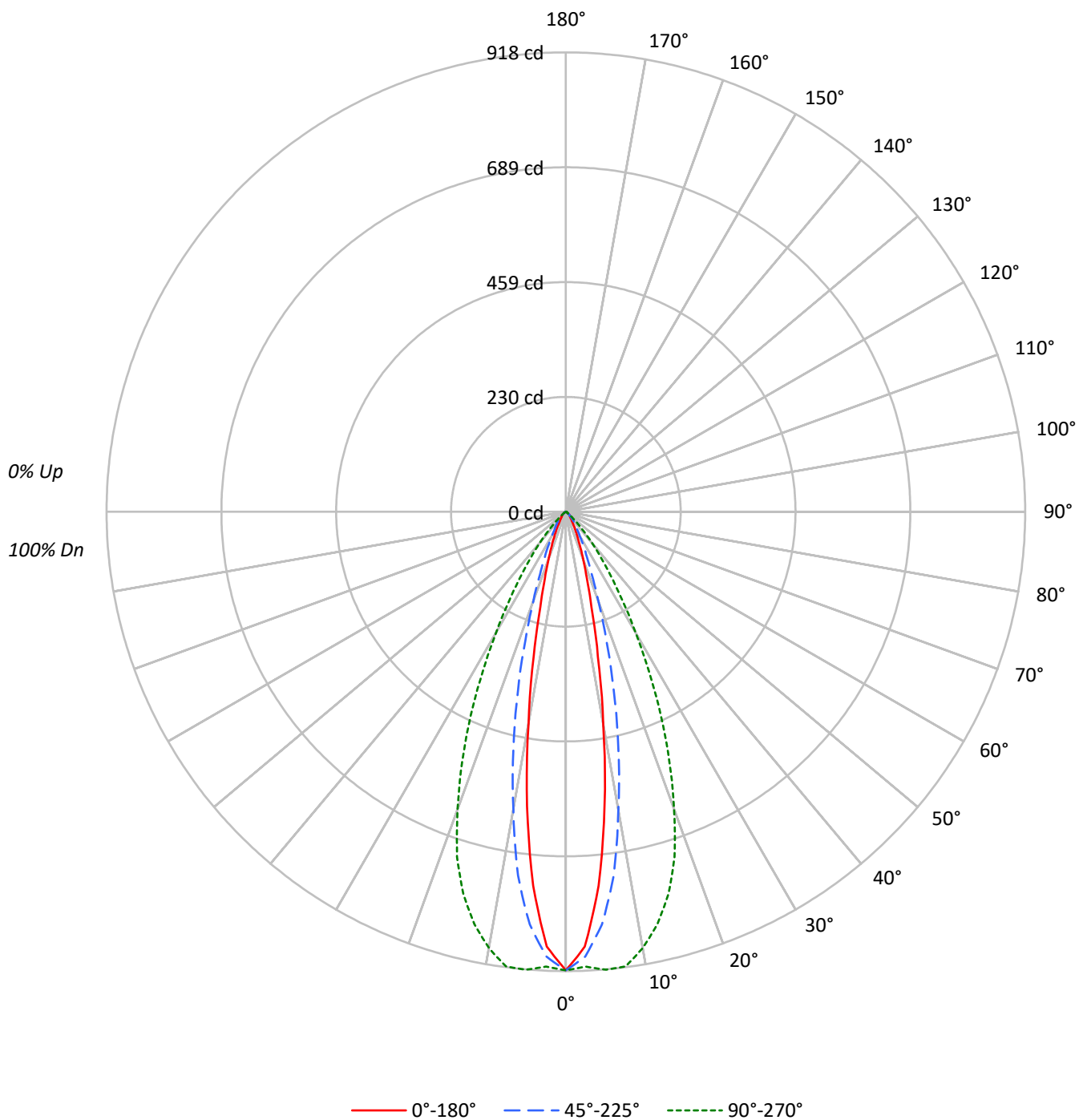
Lumens per Lamp: N/A
Luminaire Lumens: 329.4 lumens
Efficiency: N/A
Efficacy: 47.1 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.8 / 0.47
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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			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	109	107	112	109	107	106	105	104	102		102	100	99		98	97	96	95
2	109	105	101	98	107	103	100	97	100	97	95		97	95	93		94	93	91	90
3	105	99	95	91	103	98	94	90	95	92	89		93	90	88		90	88	86	85
4	100	94	89	85	99	93	88	85	91	87	84		89	85	83		87	84	82	80
5	96	89	84	80	95	88	83	80	86	82	79		85	81	78		83	80	78	76
6	92	85	80	76	91	84	79	76	83	78	75		81	77	75		80	77	74	73
7	89	81	76	72	88	80	75	72	79	75	71		78	74	71		77	73	71	70
8	85	77	72	69	84	77	72	69	76	71	68		75	71	68		74	70	68	67
9	82	74	69	66	81	74	69	66	73	68	65		72	68	65		71	68	65	64
10	79	71	66	63	79	71	66	63	70	66	63		69	65	62		69	65	62	61

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	452067	452067	452067
5°	371633	410064	454884
10°	215719	303038	443511
15°	100519	188728	404169
20°	52975	99492	332183
25°	29341	53892	245018
30°	17204	31561	158486
35°	11022	21200	93896
40°	8630	14298	52167
45°	7466	8512	23164
50°	6754	5833	8520
55°	4559	4301	3957
60°	3355	3059	3059
65°	2685	2218	2685
70°	2164	2164	2164
75°	2097	2097	2097
80°	2273	2273	2273
85°	2264	2264	2264

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 23164 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.0	22.2
10°-20°	119.5	36.3
20°-30°	79.7	24.2
30°-40°	35.9	10.9
40°-50°	13.1	4.0
50°-60°	4.6	1.4
60°-70°	2.2	0.7
70°-80°	1.1	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°	272.1	82.6
0°-40°	308.0	93.5
0°-60°	325.8	98.9
0°-90°	329.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	329.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	916	916	916	916	916	
5°	750	774	828	888	918	61
15°	197	231	370	624	791	59
25°	54	63	99	270	450	26
35°	18	21	35	76	156	12
45°	11	11	12	19	33	8
55°	5	5	5	4	5	5
65°	2	2	2	2	2	2
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°	916.3	916.3	916.3	916.3	916.3
2.5°	870.0	879.2	889.9	901.0	909.8
5°	750.4	773.7	828.0	888.4	918.5
7.5°	593.4	627.8	733.2	852.4	916.3
10°	430.6	474.6	604.9	790.2	885.3
12.5°	296.1	337.4	485.3	711.5	844.4
15°	196.8	231.2	369.5	624.3	791.3
17.5°	138.7	162.0	268.6	529.2	722.9
20°	100.9	116.5	189.5	436.0	632.7
22.5°	73.4	85.2	134.9	348.5	541.4
25°	53.9	62.7	99.0	269.8	450.1
27.5°	40.1	47.0	74.1	204.8	358.8
30°	30.2	35.9	55.4	150.9	278.2
32.5°	23.3	27.1	42.4	107.7	210.5
35°	18.3	20.6	35.2	76.0	155.9
37.5°	15.3	16.8	29.0	53.1	114.2
40°	13.4	14.5	22.2	37.8	81.0
42.5°	11.8	12.6	16.0	27.1	52.7
45°	10.7	10.7	12.2	19.1	33.2
47.5°	9.9	8.8	9.6	13.4	19.5
50°	8.8	7.3	7.6	9.2	11.1
52.5°	6.9	6.1	6.1	6.1	6.5
55°	5.3	5.0	5.0	4.2	4.6
57.5°	4.2	4.2	3.8	3.4	3.8
60°	3.4	3.4	3.1	2.7	3.1
62.5°	2.7	2.7	2.3	2.3	2.7
65°	2.3	2.3	1.9	1.9	2.3
67.5°	1.9	1.9	1.9	1.5	1.9
70°	1.5	1.5	1.5	1.5	1.5
72.5°	1.1	1.1	1.5	1.1	1.1
75°	1.1	1.1	1.1	1.1	1.1
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)