

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: P1178564

Luminaire Tested: LDA2B059727R2050D010 2LBDC1MW

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1178564
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: LDA2B059727R2050D010 2LBDC1MW
Description: 500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 97 CRI LEDS AND 2700K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

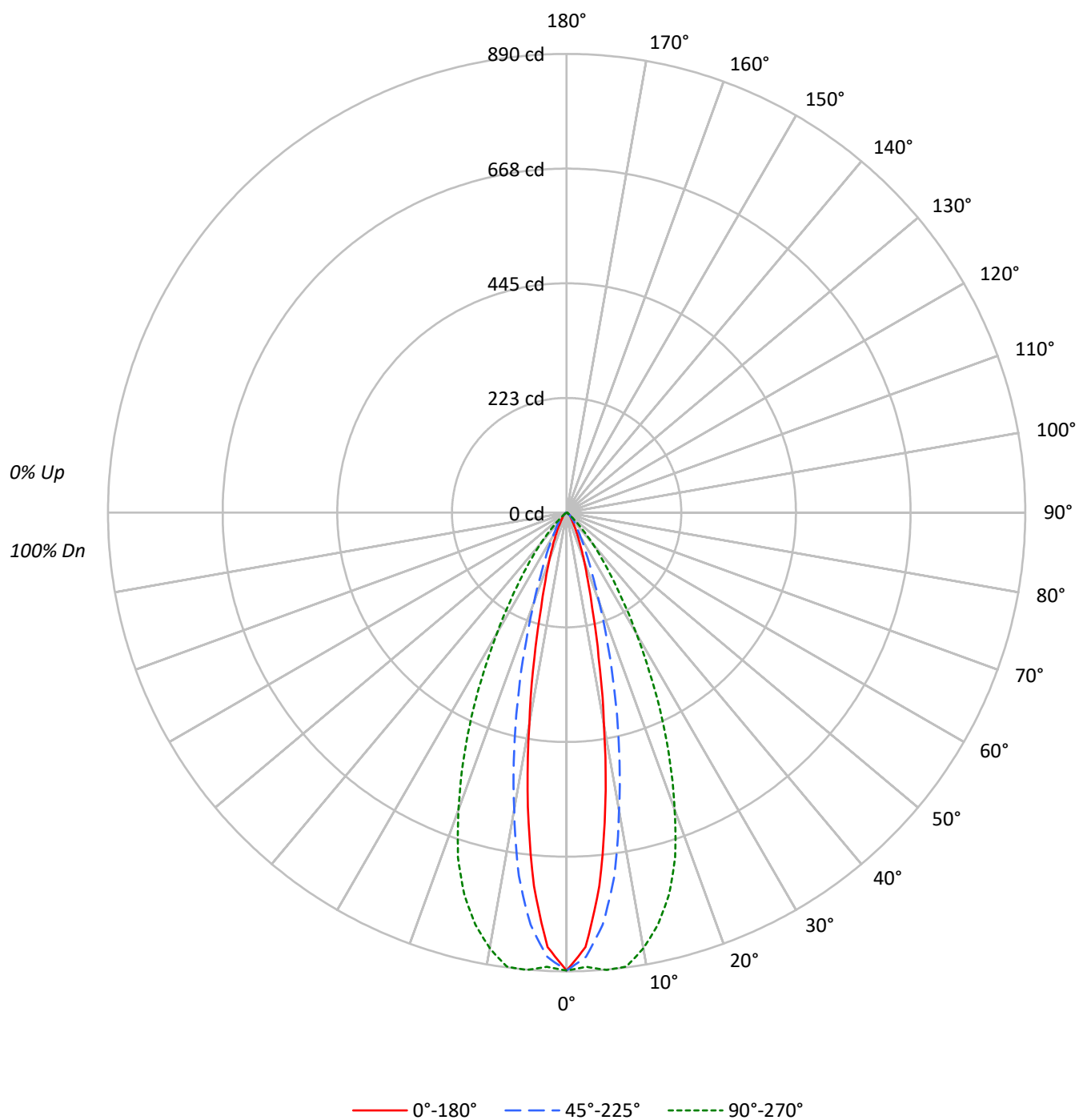
Lumens per Lamp: N/A
Luminaire Lumens: 319.3 lumens
Efficiency: N/A
Efficacy: 45.6 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.8 / 0.47
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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		90
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	62		69

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	438253	438253	438253
5°	360292	397534	441017
10°	209156	293770	429985
15°	97454	182956	391859
20°	51347	96447	322050
25°	28416	52205	237561
30°	16692	30592	153644
35°	10721	20538	91005
40°	8372	13847	50557
45°	7256	8303	22467
50°	6524	5680	8213
55°	4473	4129	3785
60°	3256	2960	2960
65°	2568	2218	2568
70°	2164	2164	2164
75°	2097	2097	2097
80°	1989	1989	1989
85°	2264	2264	2264

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 22467 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.7	22.1
10°-20°	115.8	36.3
20°-30°	77.3	24.2
30°-40°	34.8	10.9
40°-50°	12.8	4.0
50°-60°	4.5	1.4
60°-70°	2.1	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°	263.8	82.6
0°-40°	298.6	93.5
0°-60°	315.8	98.9
0°-90°	319.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	319.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	888	888	888	888	888	
5°	728	750	803	861	890	59
15°	191	224	358	605	767	57
25°	52	61	96	262	436	25
35°	18	20	34	74	151	12
45°	10	10	12	18	32	8
55°	5	5	5	4	4	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°	888.3	888.3	888.3	888.3	888.3
2.5°	843.5	852.4	862.8	873.5	882.0
5°	727.5	750.1	802.7	861.3	890.5
7.5°	575.3	608.6	710.9	826.4	888.3
10°	417.5	460.1	586.4	766.1	858.3
12.5°	287.1	327.1	470.5	689.8	818.7
15°	190.8	224.1	358.2	605.3	767.2
17.5°	134.5	157.1	260.4	513.1	700.9
20°	97.8	113.0	183.7	422.7	613.4
22.5°	71.1	82.6	130.8	337.8	524.9
25°	52.2	60.8	95.9	261.5	436.4
27.5°	38.9	45.6	71.9	198.6	347.8
30°	29.3	34.8	53.7	146.3	269.7
32.5°	22.6	26.3	41.1	104.5	204.1
35°	17.8	20.0	34.1	73.7	151.1
37.5°	14.8	16.3	28.2	51.5	110.8
40°	13.0	14.1	21.5	36.7	78.5
42.5°	11.5	12.2	15.6	26.3	51.1
45°	10.4	10.4	11.9	18.5	32.2
47.5°	9.6	8.5	9.3	13.0	18.9
50°	8.5	7.0	7.4	8.9	10.7
52.5°	6.7	5.9	5.9	5.9	6.3
55°	5.2	4.8	4.8	4.1	4.4
57.5°	4.1	4.1	3.7	3.3	3.7
60°	3.3	3.3	3.0	2.6	3.0
62.5°	2.6	2.6	2.2	2.2	2.6
65°	2.2	2.2	1.9	1.9	2.2
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°	0.7	0.7	0.7	0.7	0.7
80°	0.7	0.7	0.7	0.7	0.7
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)