

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: P1178408

Luminaire Tested: LDA2B059030R2050D010 2LBDC1MW

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1178408
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: LDA2B059030R2050D010 2LBDC1MW
Description: 500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

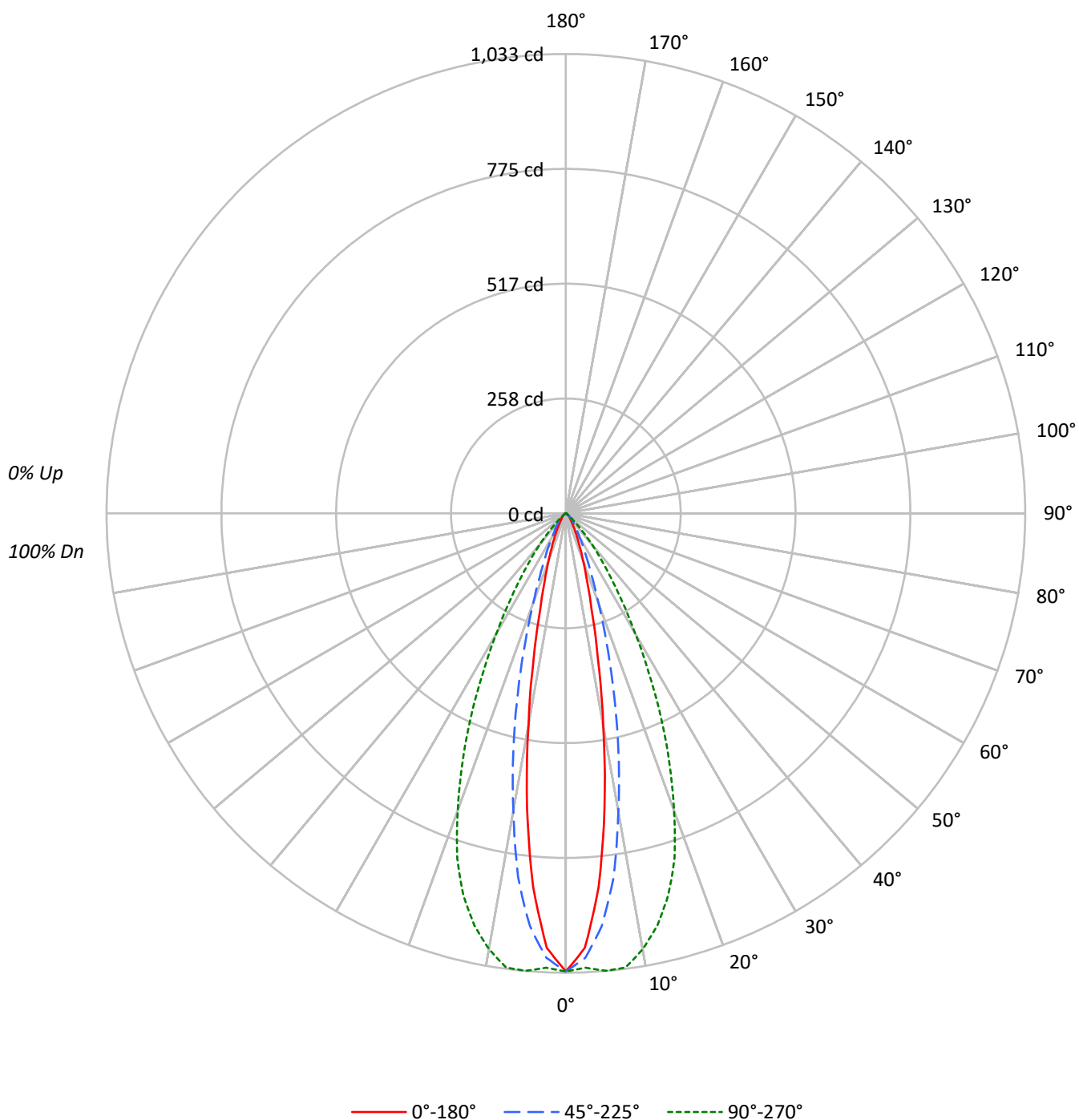
Lumens per Lamp: N/A
Luminaire Lumens: 370.2 lumens
Efficiency: N/A
Efficacy: 52.9 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.8 / 0.47
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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°	508163	508163	508163
5°	417790	460975	511391
10°	242521	340611	498568
15°	112981	212172	454326
20°	59538	111830	373450
25°	32988	60533	275448
30°	19312	35491	178141
35°	12407	23790	105520
40°	9661	16037	58672
45°	8373	9559	26095
50°	7599	6601	9594
55°	5161	4817	4473
60°	3848	3355	3355
65°	3035	2452	3035
70°	2452	2452	2452
75°	2478	2478	2478
80°	2557	2557	2557
85°	2264	2264	2264

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 26095 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.0	22.2
10°-20°	134.3	36.3
20°-30°	89.6	24.2
30°-40°	40.4	10.9
40°-50°	14.8	4.0
50°-60°	5.2	1.4
60°-70°	2.4	0.7
70°-80°	1.3	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°	305.9	82.6
0°-40°	346.2	93.5
0°-60°	366.2	98.9
0°-90°	370.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	370.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1030	1030	1030	1030	1030	
5°	844	870	931	999	1033	69
15°	221	260	415	702	890	66
25°	61	70	111	303	506	29
35°	21	23	40	86	175	14
45°	12	12	14	22	37	9
55°	6	6	6	5	5	6
65°	3	3	2	2	3	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°	1030.0	1030.0	1030.0	1030.0	1030.0
2.5°	978.0	988.3	1000.4	1012.8	1022.7
5°	843.6	869.8	930.8	998.6	1032.6
7.5°	667.1	705.7	824.3	958.3	1030.0
10°	484.1	533.5	679.9	888.3	995.2
12.5°	332.9	379.3	545.5	799.8	949.3
15°	221.2	259.9	415.4	701.8	889.5
17.5°	155.9	182.1	302.0	594.9	812.7
20°	113.4	131.0	213.0	490.1	711.3
22.5°	82.5	95.8	151.6	391.7	608.6
25°	60.6	70.4	111.2	303.2	506.0
27.5°	45.1	52.8	83.3	230.2	403.3
30°	33.9	40.4	62.3	169.7	312.7
32.5°	26.2	30.5	47.7	121.1	236.7
35°	20.6	23.2	39.5	85.5	175.2
37.5°	17.2	18.9	32.6	59.7	128.4
40°	15.0	16.3	24.9	42.5	91.1
42.5°	13.3	14.2	18.0	30.5	59.3
45°	12.0	12.0	13.7	21.5	37.4
47.5°	11.2	9.9	10.7	15.0	21.9
50°	9.9	8.2	8.6	10.3	12.5
52.5°	7.7	6.9	6.9	6.9	7.3
55°	6.0	5.6	5.6	4.7	5.2
57.5°	4.7	4.7	4.3	3.9	4.3
60°	3.9	3.9	3.4	3.0	3.4
62.5°	3.0	3.0	2.6	2.6	3.0
65°	2.6	2.6	2.1	2.1	2.6
67.5°	2.1	2.1	2.1	1.7	2.1
70°	1.7	1.7	1.7	1.7	1.7
72.5°	1.3	1.3	1.7	1.3	1.3
75°	1.3	1.3	1.3	1.3	1.3
77.5°	0.9	0.9	0.9	0.9	0.9
80°	0.9	0.9	0.9	0.9	0.9
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)