

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: P1178912

Luminaire Tested: LDA2B109030R2050D010 2LBDC1MW

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1178912
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: LDA2B109030R2050D010 2LBDC1MW
Description: 1000 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

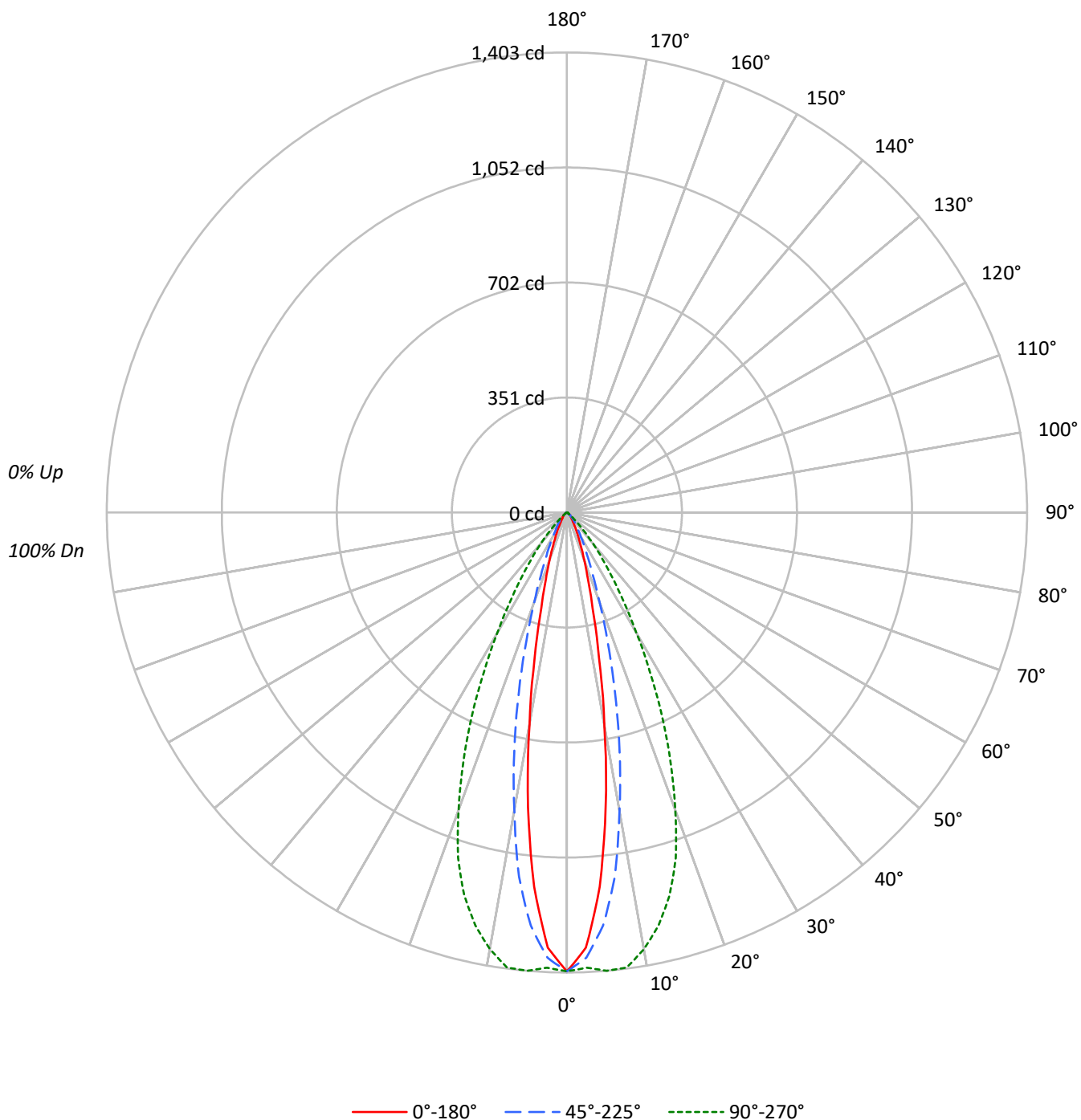
Lumens per Lamp: N/A
Luminaire Lumens: 503.0 lumens
Efficiency: N/A
Efficacy: 50.3 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.8 / 0.47
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 10
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°	690361	690361	690361
5°	567602	626239	694732
10°	329440	462748	677365
15°	153485	288225	617260
20°	80906	151942	507331
25°	44801	82253	374196
30°	26262	48195	242002
35°	16864	32343	143404
40°	13138	21768	79668
45°	11373	13047	35444
50°	10285	8980	12971
55°	7053	6537	6021
60°	5230	4638	4638
65°	4086	3385	4086
70°	3318	3318	3318
75°	3431	3431	3431
80°	3409	3409	3409
85°	3396	3396	3396

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 35444 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.4	22.1
10°-20°	182.4	36.3
20°-30°	121.7	24.2
30°-40°	54.9	10.9
40°-50°	20.1	4.0
50°-60°	7.0	1.4
60°-70°	3.3	0.7
70°-80°	1.8	0.3
80°-90°	0.5	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°	415.5	82.6
0°-40°	470.4	93.5
0°-60°	497.5	98.9
0°-90°	503.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	503.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1399	1399	1399	1399	1399	
5°	1146	1182	1264	1357	1403	94
15°	300	353	564	954	1208	90
25°	82	96	151	412	687	40
35°	28	32	54	116	238	19
45°	16	16	19	29	51	13
55°	8	8	8	6	7	8
65°	4	4	3	3	4	4
75°	2	2	2	2	2	2
85°	1	1	1	1	1	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1399.3	1399.3	1399.3	1399.3	1399.3
2.5°	1328.7	1342.7	1359.1	1376.0	1389.4
5°	1146.1	1181.7	1264.5	1356.7	1402.8
7.5°	906.2	958.8	1119.8	1301.9	1399.3
10°	657.6	724.8	923.7	1206.8	1352.1
12.5°	452.2	515.3	741.1	1086.5	1289.6
15°	300.5	353.0	564.3	953.5	1208.5
17.5°	211.8	247.4	410.2	808.2	1104.1
20°	154.1	178.0	289.4	665.8	966.3
22.5°	112.0	130.1	206.0	532.2	826.9
25°	82.3	95.7	151.1	412.0	687.4
27.5°	61.3	71.8	113.2	312.8	547.9
30°	46.1	54.9	84.6	230.5	424.8
32.5°	35.6	41.4	64.8	164.6	321.5
35°	28.0	31.5	53.7	116.1	238.1
37.5°	23.3	25.7	44.3	81.1	174.5
40°	20.4	22.2	33.8	57.8	123.7
42.5°	18.1	19.3	24.5	41.4	80.5
45°	16.3	16.3	18.7	29.2	50.8
47.5°	15.2	13.4	14.6	20.4	29.8
50°	13.4	11.1	11.7	14.0	16.9
52.5°	10.5	9.3	9.3	9.3	9.9
55°	8.2	7.6	7.6	6.4	7.0
57.5°	6.4	6.4	5.8	5.3	5.8
60°	5.3	5.3	4.7	4.1	4.7
62.5°	4.1	4.1	3.5	3.5	4.1
65°	3.5	3.5	2.9	2.9	3.5
67.5°	2.9	2.9	2.9	2.3	2.9
70°	2.3	2.3	2.3	2.3	2.3
72.5°	1.8	1.8	2.3	1.8	1.8
75°	1.8	1.8	1.8	1.8	1.8
77.5°	1.2	1.2	1.2	1.2	1.2
80°	1.2	1.2	1.2	1.2	1.2
82.5°	0.6	0.6	0.6	0.6	0.6
85°	0.6	0.6	0.6	0.6	0.6
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)