

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: P1179094

Luminaire Tested: LDA2B109730R2040D010 2LBDC1MW

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1179094
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2206-683-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/17/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDA2B109730R2040D010 2LBDC1MW
Description: 1000 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 97 CRI LEDS AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

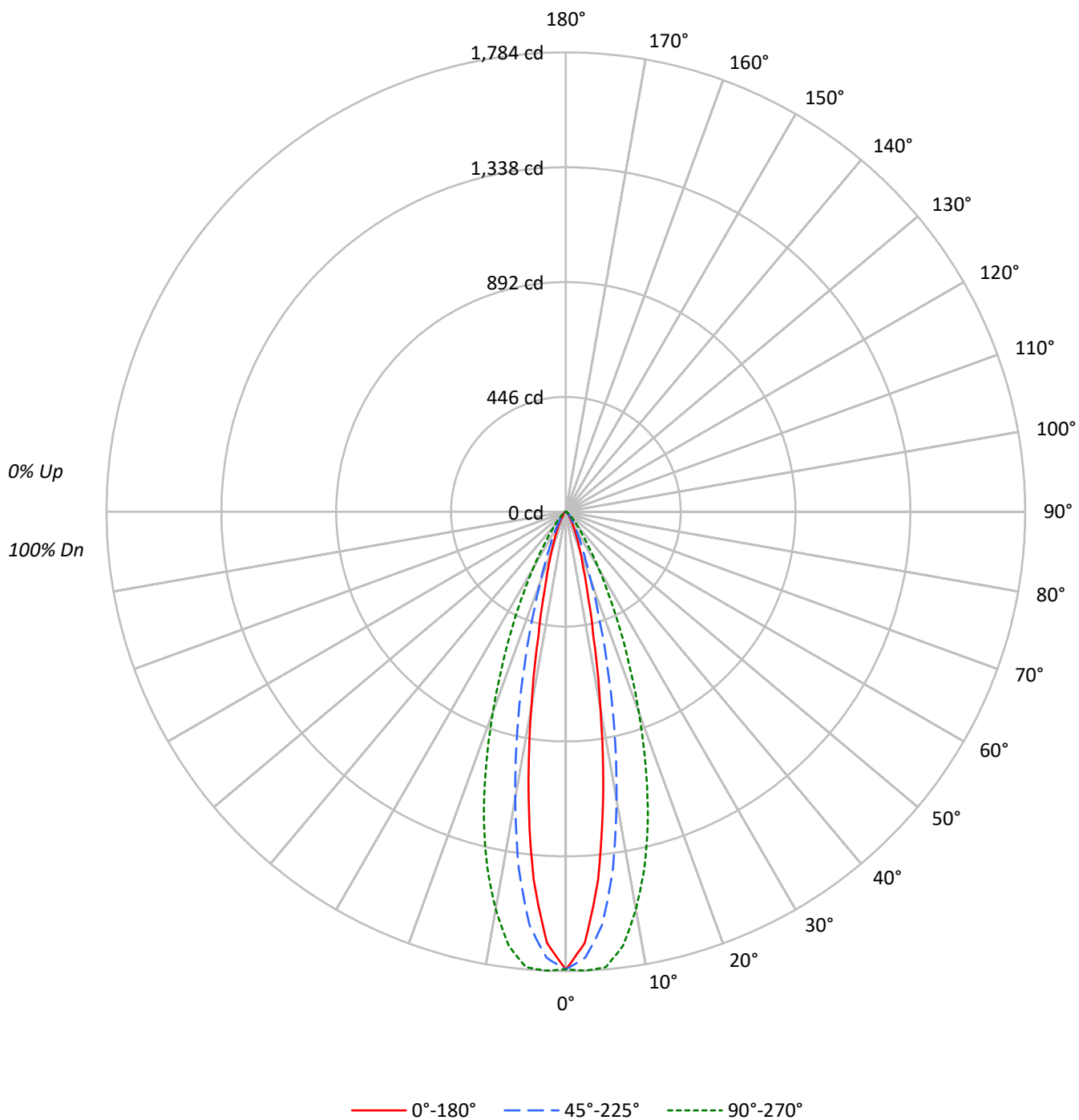
Lumens per Lamp: N/A
Luminaire Lumens: 501.0 lumens
Efficiency: N/A
Efficacy: 50.1 lumens/watt
Spacing Criteria (0/90/45): 0.31 / 0.63 / 0.43
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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			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	110	108	112	110	108	106	106	104	103		102	101	100		99	98	97	95
2	110	106	102	99	108	104	101	98	101	98	96		98	96	94		95	94	92	91
3	106	100	96	93	104	99	95	92	96	93	91		94	92	89		92	90	88	87
4	102	96	91	88	100	94	90	87	92	89	86		90	87	85		89	86	84	83
5	98	91	86	83	97	90	86	83	89	85	82		87	84	81		86	83	81	79
6	95	87	83	79	93	87	82	79	85	81	78		84	80	78		83	80	77	76
7	91	84	79	76	90	83	79	75	82	78	75		81	77	75		80	77	74	73
8	88	81	76	73	87	80	76	72	79	75	72		78	75	72		77	74	72	70
9	85	78	73	70	84	77	73	70	76	72	70		76	72	69		75	72	69	68
10	83	75	70	67	82	75	70	67	74	70	67		73	70	67		73	69	67	66

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	876951	876951	876951
5°	710827	798387	879260
10°	386500	566851	785124
15°	163445	318105	628446
20°	83426	149580	434563
25°	46217	76538	264888
30°	25864	42499	144415
35°	14997	25718	73599
40°	11142	19514	40768
45°	9838	13187	24141
50°	10362	8750	12895
55°	7397	6021	6967
60°	4835	4243	4243
65°	3736	3736	3736
70°	3173	3173	3173
75°	3050	3050	3050
80°	3125	3125	3125
85°	2830	2830	2830

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 24141 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.5	27.6
10°-20°	195.9	39.1
20°-30°	100.9	20.1
30°-40°	37.1	7.4
40°-50°	16.3	3.3
50°-60°	7.2	1.4
60°-70°	3.1	0.6
70°-80°	1.6	0.3
80°-90°	0.4	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°	435.2	86.9
0°-40°	472.4	94.3
0°-60°	495.8	99.0
0°-90°	501.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	501.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1778	1778	1778	1778	1778	
5°	1435	1484	1612	1726	1775	115
15°	320	372	623	1039	1230	98
25°	85	95	141	323	487	41
35°	25	29	43	75	122	17
45°	14	16	19	23	35	11
55°	9	8	7	8	8	8
65°	3	3	3	3	3	3
75°	2	2	2	2	2	2
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°	1777.5	1777.5	1777.5	1777.5	1777.5
2.5°	1675.9	1695.9	1733.2	1768.9	1783.5
5°	1435.3	1484.0	1612.1	1726.2	1775.4
7.5°	1111.5	1191.5	1399.1	1612.6	1700.2
10°	771.5	852.5	1131.5	1438.6	1567.2
12.5°	492.0	570.9	872.0	1245.6	1412.6
15°	320.0	371.9	622.8	1039.1	1230.4
17.5°	222.2	259.0	423.8	820.1	1028.8
20°	158.9	184.9	284.9	625.5	827.7
22.5°	115.2	133.0	197.9	456.8	643.3
25°	84.9	95.1	140.6	322.7	486.6
27.5°	62.7	69.2	101.6	222.7	355.7
30°	45.4	50.8	74.6	153.0	253.5
32.5°	33.0	37.8	55.7	106.0	176.8
35°	24.9	28.7	42.7	74.6	122.2
37.5°	20.5	22.7	35.1	54.1	86.5
40°	17.3	19.5	30.3	40.0	63.3
42.5°	15.1	17.8	24.9	29.7	47.6
45°	14.1	16.2	18.9	22.7	34.6
47.5°	14.1	13.5	14.6	17.3	24.3
50°	13.5	11.4	11.4	13.5	16.8
52.5°	11.4	9.2	9.2	9.7	11.4
55°	8.6	7.6	7.0	7.6	8.1
57.5°	6.5	6.5	5.9	5.4	5.9
60°	4.9	4.9	4.3	4.3	4.3
62.5°	3.8	3.8	3.8	3.2	3.8
65°	3.2	3.2	3.2	2.7	3.2
67.5°	2.7	2.7	2.2	2.7	2.7
70°	2.2	2.2	2.2	2.2	2.2
72.5°	1.6	1.6	1.6	1.6	1.6
75°	1.6	1.6	1.6	1.6	1.6
77.5°	1.1	1.1	1.1	1.1	1.1
80°	1.1	1.1	1.1	1.1	1.1
82.5°	0.5	0.5	0.5	0.5	0.5
85°	0.5	0.5	0.5	0.5	0.5
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)