

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: P1179107

Luminaire Tested: LDA2B109730R2050D010 2LBDC1MW

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1179107
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: LDA2B109730R2050D010 2LBDC1MW
Description: 1000 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 97 CRI LEDS AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

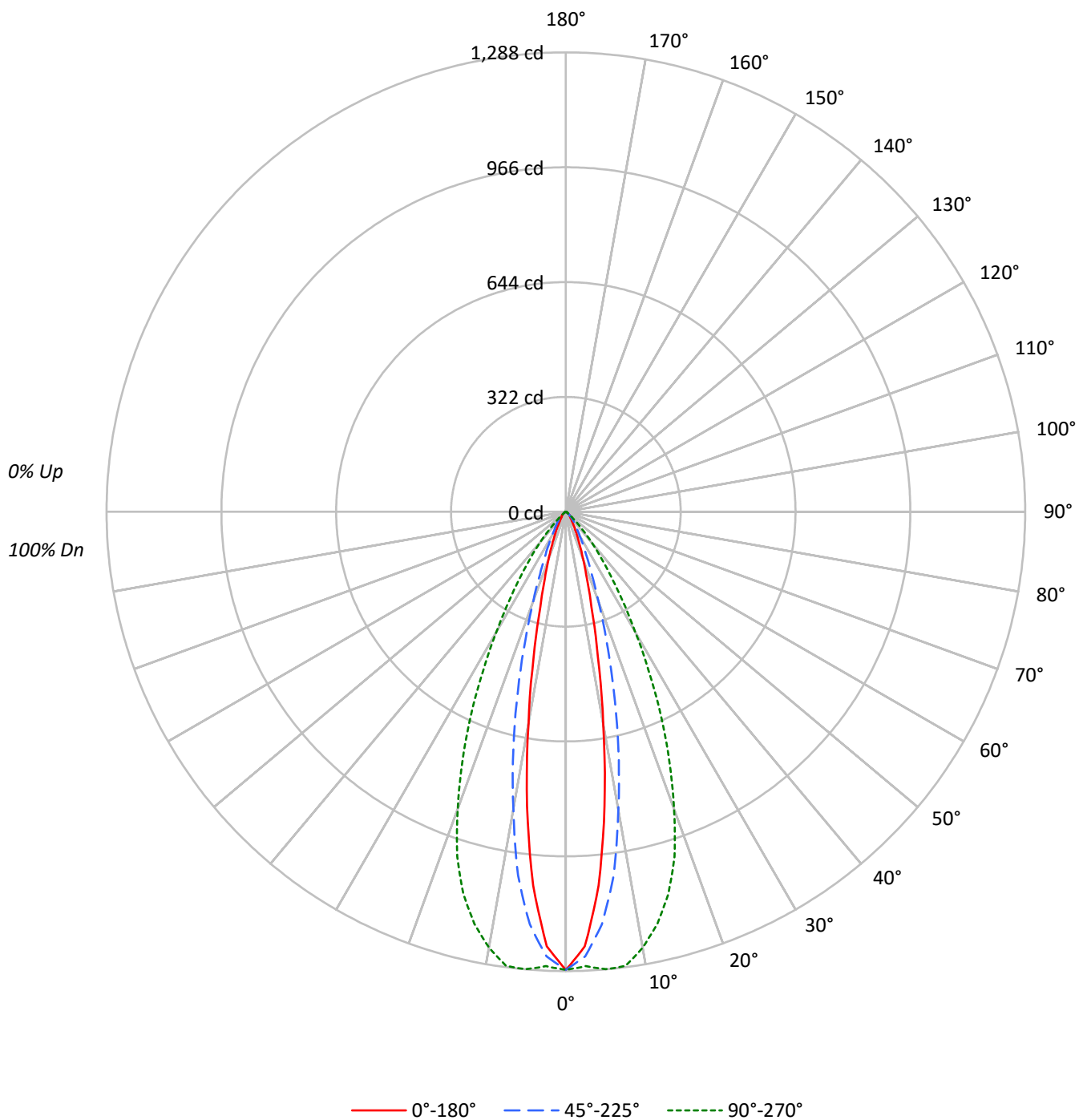
Lumens per Lamp: N/A
Luminaire Lumens: 461.7 lumens
Efficiency: N/A
Efficacy: 46.2 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.8 / 0.47
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	100
1	114	112	109	107	112	109	107	106	105	104	102	102	100	99	98	97	96	96	96	95
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	93	91	91	91	90
3	105	99	95	91	103	98	94	90	95	92	89	93	90	88	90	88	86	86	86	85
4	100	94	89	85	99	93	88	85	91	87	84	89	85	83	87	84	82	82	82	80
5	96	89	84	80	95	88	83	80	86	82	79	85	81	78	83	80	78	78	78	76
6	92	85	80	76	91	84	79	76	83	78	75	81	77	75	80	77	74	74	74	73
7	89	81	76	72	88	80	75	72	79	75	71	78	74	71	77	73	71	71	71	70
8	85	77	72	69	84	77	72	69	76	71	68	75	71	68	74	70	68	68	68	67
9	82	74	69	66	81	74	69	66	73	68	65	72	68	65	71	68	65	65	65	64
10	79	71	66	63	79	71	66	63	70	66	63	69	65	62	69	65	62	62	62	61

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	633674	633674	633674
5°	520999	574832	637679
10°	302387	424775	621707
15°	140869	264526	566592
20°	74238	139499	465697
25°	41100	75503	343494
30°	24098	44265	222120
35°	15479	29693	131599
40°	12044	20030	73163
45°	10466	11931	32514
50°	9441	8213	11897
55°	6451	6021	5505
60°	4736	4243	4243
65°	3736	3152	3736
70°	3029	3029	3029
75°	3050	3050	3050
80°	3125	3125	3125
85°	2830	2830	2830

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 32514 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.3	22.2
10°-20°	167.4	36.3
20°-30°	111.7	24.2
30°-40°	50.4	10.9
40°-50°	18.4	4.0
50°-60°	6.5	1.4
60°-70°	3.0	0.7
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°	381.4	82.6
0°-40°	431.8	93.5
0°-60°	456.7	98.9
0°-90°	461.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	461.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1284	1284	1284	1284	1284	
5°	1052	1085	1161	1245	1288	86
15°	276	324	518	875	1109	83
25°	76	88	139	378	631	36
35°	26	29	49	107	218	17
45°	15	15	17	27	47	12
55°	8	7	7	6	6	7
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°	1284.4	1284.4	1284.4	1284.4	1284.4
2.5°	1219.6	1232.5	1247.5	1263.0	1275.3
5°	1052.0	1084.6	1160.7	1245.3	1287.6
7.5°	831.8	880.0	1027.9	1195.0	1284.4
10°	603.6	665.2	847.9	1107.7	1241.0
12.5°	415.1	473.0	680.2	997.3	1183.7
15°	275.8	324.0	517.9	875.2	1109.3
17.5°	194.4	227.1	376.5	741.8	1013.4
20°	141.4	163.4	265.7	611.1	887.0
22.5°	102.8	119.4	189.1	488.5	759.0
25°	75.5	87.8	138.7	378.1	631.0
27.5°	56.2	65.9	103.9	287.1	502.9
30°	42.3	50.3	77.7	211.6	389.9
32.5°	32.7	38.0	59.5	151.0	295.1
35°	25.7	28.9	49.3	106.6	218.5
37.5°	21.4	23.6	40.7	74.5	160.1
40°	18.7	20.4	31.1	53.0	113.6
42.5°	16.6	17.7	22.5	38.0	73.9
45°	15.0	15.0	17.1	26.8	46.6
47.5°	13.9	12.3	13.4	18.7	27.3
50°	12.3	10.2	10.7	12.9	15.5
52.5°	9.6	8.6	8.6	8.6	9.1
55°	7.5	7.0	7.0	5.9	6.4
57.5°	5.9	5.9	5.4	4.8	5.4
60°	4.8	4.8	4.3	3.7	4.3
62.5°	3.7	3.7	3.2	3.2	3.7
65°	3.2	3.2	2.7	2.7	3.2
67.5°	2.7	2.7	2.7	2.1	2.7
70°	2.1	2.1	2.1	2.1	2.1
72.5°	1.6	1.6	2.1	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)