

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: P1179106

Luminaire Tested: LDA2B109730R2050D010 2LBDC1MMS

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1179106
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 2LBDC1MMS
Description: 1000 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 97 CRI LEDS AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

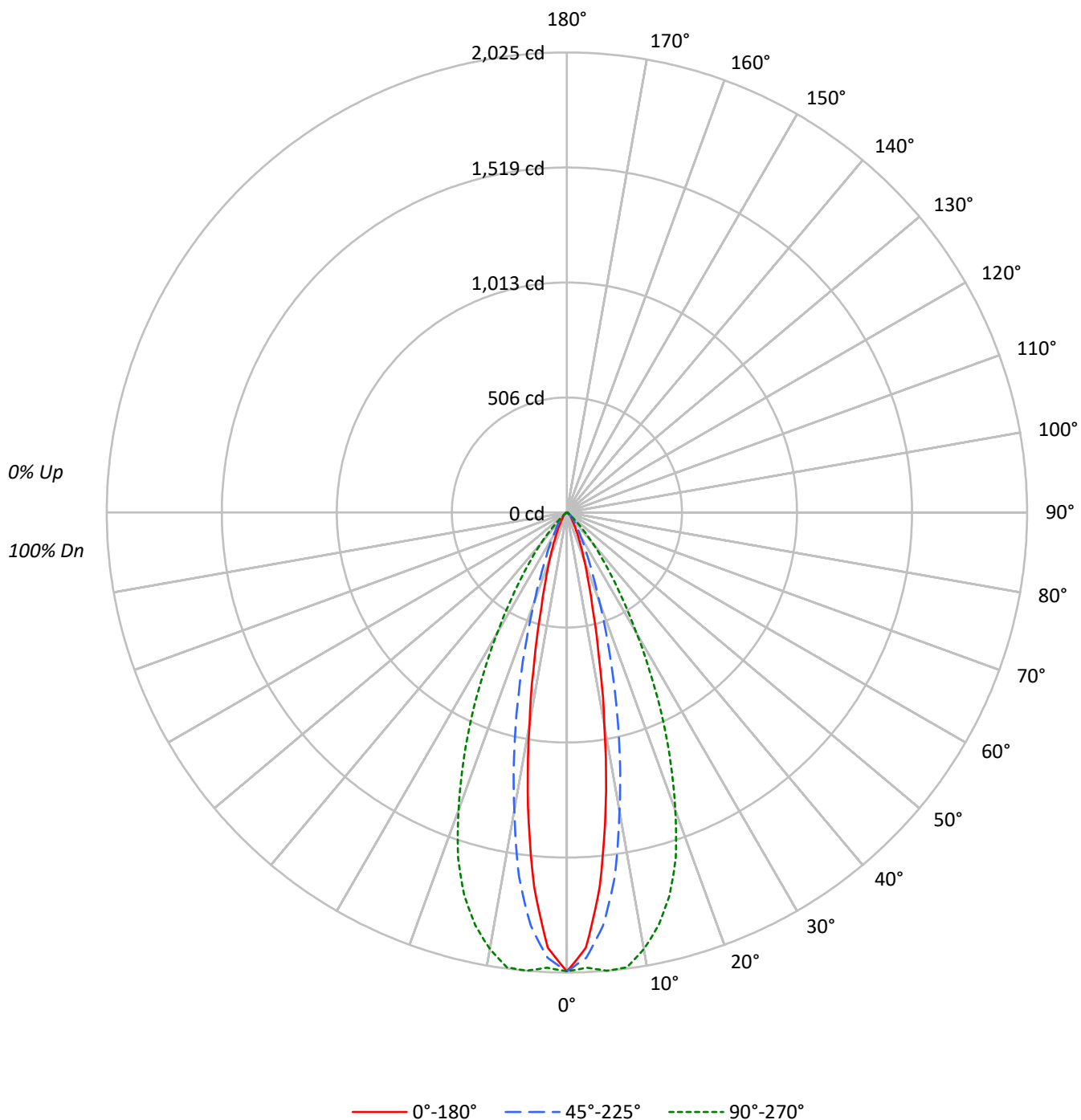
Lumens per Lamp: N/A
Luminaire Lumens: 726.0 lumens
Efficiency: N/A
Efficacy: 72.6 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.8 / 0.47
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 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	109	107	112	109	107	106	105	104	102		102	100	99		98	97	96	95
2	109	105	101	98	107	103	100	97	100	97	95		97	95	93		94	93	91	90
3	105	99	95	91	103	98	94	90	95	92	89		93	90	88		90	88	86	85
4	100	94	89	85	99	93	88	85	91	87	84		89	85	83		87	84	82	80
5	96	89	84	80	95	88	83	80	86	82	79		85	81	78		83	80	78	76
6	92	85	80	76	91	84	79	76	83	78	75		81	77	75		80	77	74	73
7	89	81	76	72	88	80	75	72	79	75	71		78	74	71		77	73	71	70
8	85	77	72	69	84	77	72	69	76	71	68		75	71	68		74	70	68	67
9	82	74	69	66	81	74	69	66	73	68	65		72	68	65		71	68	65	64
10	79	71	66	63	79	71	66	63	70	66	63		69	65	62		69	65	62	61

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	996344	996344	996344
5°	819137	903825	1002676
10°	475473	667897	977548
15°	221519	415968	890826
20°	116713	219303	732199
25°	64616	118726	540064
30°	37884	69559	349274
35°	24332	46677	206945
40°	18999	31429	114961
45°	16466	18769	51143
50°	14890	12895	18728
55°	10150	9376	8688
60°	7499	6611	6611
65°	5954	4903	5954
70°	4904	4904	4904
75°	4766	4766	4766
80°	4830	4830	4830
85°	4529	4529	4529

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 51143 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.8	22.2
10°-20°	263.3	36.3
20°-30°	175.6	24.2
30°-40°	79.2	10.9
40°-50°	29.0	4.0
50°-60°	10.1	1.4
60°-70°	4.8	0.7
70°-80°	2.5	0.3
80°-90°	0.7	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°	599.7	82.6
0°-40°	678.9	93.5
0°-60°	718.0	98.9
0°-90°	726.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	726.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2020	2020	2020	2020	2020	
5°	1654	1705	1825	1958	2025	135
15°	434	510	814	1376	1744	130
25°	119	138	218	595	992	57
35°	40	46	78	168	344	27
45°	24	24	27	42	73	18
55°	12	11	11	9	10	11
65°	5	5	4	4	5	5
75°	2	2	2	2	2	2
85°	1	1	1	1	1	1
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2019.5	2019.5	2019.5	2019.5	2019.5
2.5°	1917.6	1937.8	1961.4	1985.9	2005.2
5°	1654.0	1705.4	1825.0	1958.1	2024.6
7.5°	1307.9	1383.7	1616.1	1878.9	2019.5
10°	949.1	1046.0	1333.2	1741.6	1951.3
12.5°	652.7	743.6	1069.6	1568.1	1861.2
15°	433.7	509.5	814.4	1376.1	1744.1
17.5°	305.7	357.1	592.0	1166.4	1593.4
20°	222.3	256.9	417.7	960.9	1394.6
22.5°	161.7	187.8	297.3	768.1	1193.4
25°	118.7	138.1	218.1	594.6	992.1
27.5°	88.4	103.6	163.4	451.4	790.8
30°	66.5	79.2	122.1	332.7	613.1
32.5°	51.4	59.8	93.5	237.5	464.0
35°	40.4	45.5	77.5	167.6	343.6
37.5°	33.7	37.1	64.0	117.1	251.8
40°	29.5	32.0	48.8	83.4	178.5
42.5°	26.1	27.8	35.4	59.8	116.2
45°	23.6	23.6	26.9	42.1	73.3
47.5°	21.9	19.4	21.1	29.5	43.0
50°	19.4	16.0	16.8	20.2	24.4
52.5°	15.2	13.5	13.5	13.5	14.3
55°	11.8	10.9	10.9	9.3	10.1
57.5°	9.3	9.3	8.4	7.6	8.4
60°	7.6	7.6	6.7	5.9	6.7
62.5°	5.9	5.9	5.1	5.1	5.9
65°	5.1	5.1	4.2	4.2	5.1
67.5°	4.2	4.2	4.2	3.4	4.2
70°	3.4	3.4	3.4	3.4	3.4
72.5°	2.5	2.5	3.4	2.5	2.5
75°	2.5	2.5	2.5	2.5	2.5
77.5°	1.7	1.7	1.7	1.7	1.7
80°	1.7	1.7	1.7	1.7	1.7
82.5°	0.8	0.8	0.8	0.8	0.8
85°	0.8	0.8	0.8	0.8	0.8
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)