

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: P1179101

Luminaire Tested: LDA2B109730R2050D010 2LBD1MW

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1179101
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 2LBD1MW
Description: 1000 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 97 CRI LEDS AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

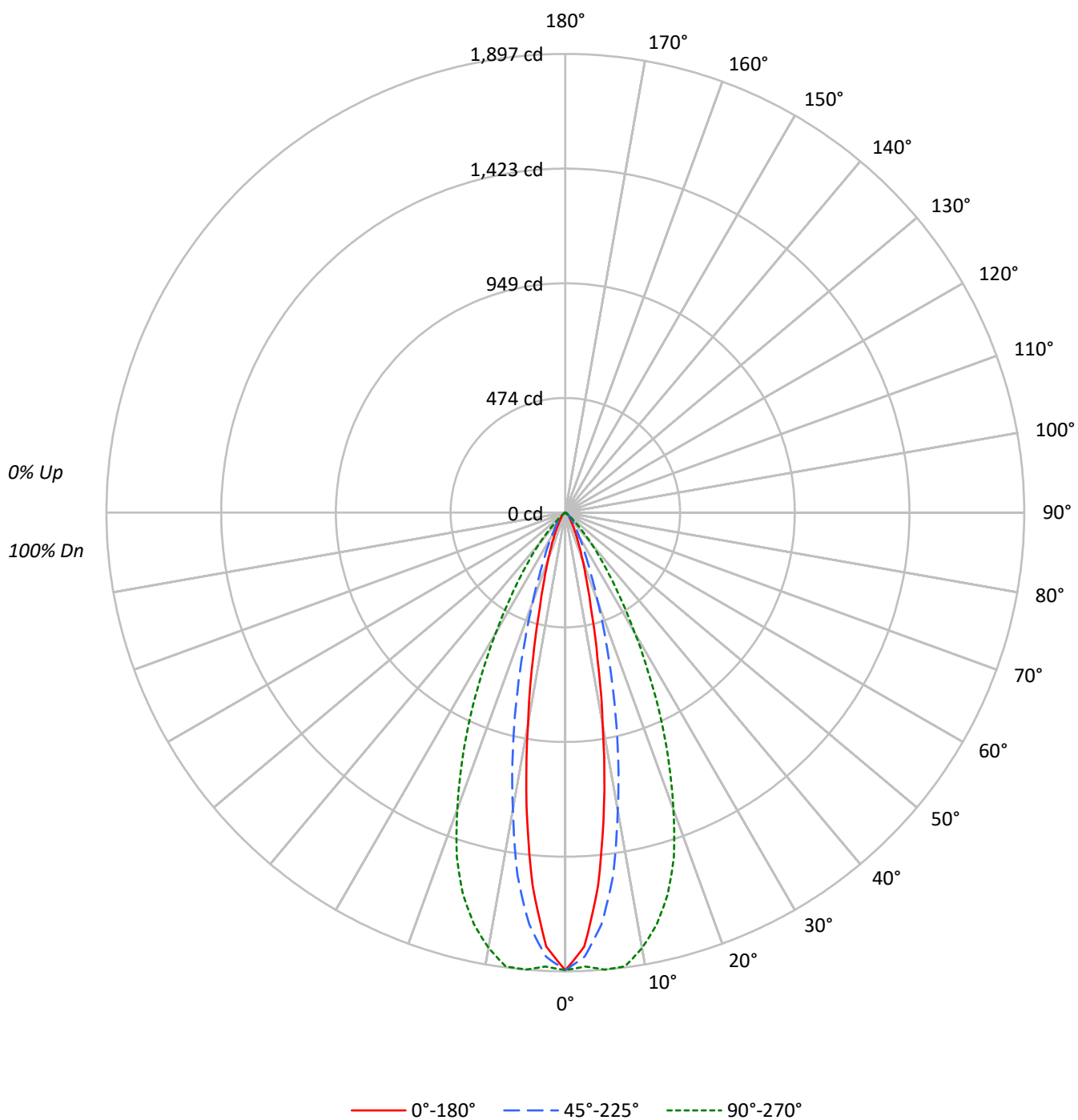
Lumens per Lamp: N/A
Luminaire Lumens: 680.1 lumens
Efficiency: N/A
Efficacy: 68.0 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.8 / 0.47
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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°	933490	933490	933490
5°	767434	846772	939383
10°	445465	625715	915828
15°	207524	389714	834591
20°	109363	205495	685997
25°	60588	111268	505987
30°	35491	65172	327227
35°	22827	43726	193875
40°	17775	29497	107748
45°	15420	17583	47864
50°	13892	12127	17577
55°	9462	8860	8171
60°	7006	6216	6216
65°	5487	4553	5487
70°	4616	4616	4616
75°	4575	4575	4575
80°	4546	4546	4546
85°	4529	4529	4529

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 47864 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.6	22.1
10°-20°	246.7	36.3
20°-30°	164.5	24.2
30°-40°	74.2	10.9
40°-50°	27.1	4.0
50°-60°	9.5	1.4
60°-70°	4.4	0.7
70°-80°	2.4	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°	561.9	82.6
0°-40°	636.0	93.5
0°-60°	672.7	98.9
0°-90°	680.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	680.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1892	1892	1892	1892	1892	
5°	1550	1598	1710	1834	1897	127
15°	406	477	763	1289	1634	122
25°	111	129	204	557	930	54
35°	38	43	73	157	322	25
45°	22	22	25	40	69	17
55°	11	10	10	9	10	10
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°	1892.1	1892.1	1892.1	1892.1	1892.1
2.5°	1796.6	1815.5	1837.6	1860.5	1878.6
5°	1549.6	1597.8	1709.8	1834.5	1896.8
7.5°	1225.3	1296.3	1514.1	1760.3	1892.1
10°	889.2	980.0	1249.0	1631.7	1828.1
12.5°	611.5	696.7	1002.0	1469.1	1743.7
15°	406.3	477.4	763.0	1289.2	1634.0
17.5°	286.4	334.5	554.7	1092.8	1492.8
20°	208.3	240.6	391.4	900.3	1306.6
22.5°	151.5	176.0	278.5	719.6	1118.0
25°	111.3	129.4	204.4	557.0	929.5
27.5°	82.8	97.0	153.1	422.9	740.9
30°	62.3	74.2	114.4	311.7	574.4
32.5°	48.1	56.0	87.6	222.5	434.7
35°	37.9	42.6	72.6	157.0	321.9
37.5°	31.6	34.7	60.0	109.7	235.9
40°	27.6	30.0	45.8	78.1	167.3
42.5°	24.5	26.0	33.1	56.0	108.9
45°	22.1	22.1	25.2	39.5	68.6
47.5°	20.5	18.1	19.7	27.6	40.2
50°	18.1	15.0	15.8	18.9	22.9
52.5°	14.2	12.6	12.6	12.6	13.4
55°	11.0	10.3	10.3	8.7	9.5
57.5°	8.7	8.7	7.9	7.1	7.9
60°	7.1	7.1	6.3	5.5	6.3
62.5°	5.5	5.5	4.7	4.7	5.5
65°	4.7	4.7	3.9	3.9	4.7
67.5°	3.9	3.9	3.9	3.2	3.9
70°	3.2	3.2	3.2	3.2	3.2
72.5°	2.4	2.4	3.2	2.4	2.4
75°	2.4	2.4	2.4	2.4	2.4
77.5°	1.6	1.6	1.6	1.6	1.6
80°	1.6	1.6	1.6	1.6	1.6
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)