

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: P1178909

Luminaire Tested: LDA2B109030R2050D010 2LBD1WMH

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1178909
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 2LBD1WMH
Description: 1000 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

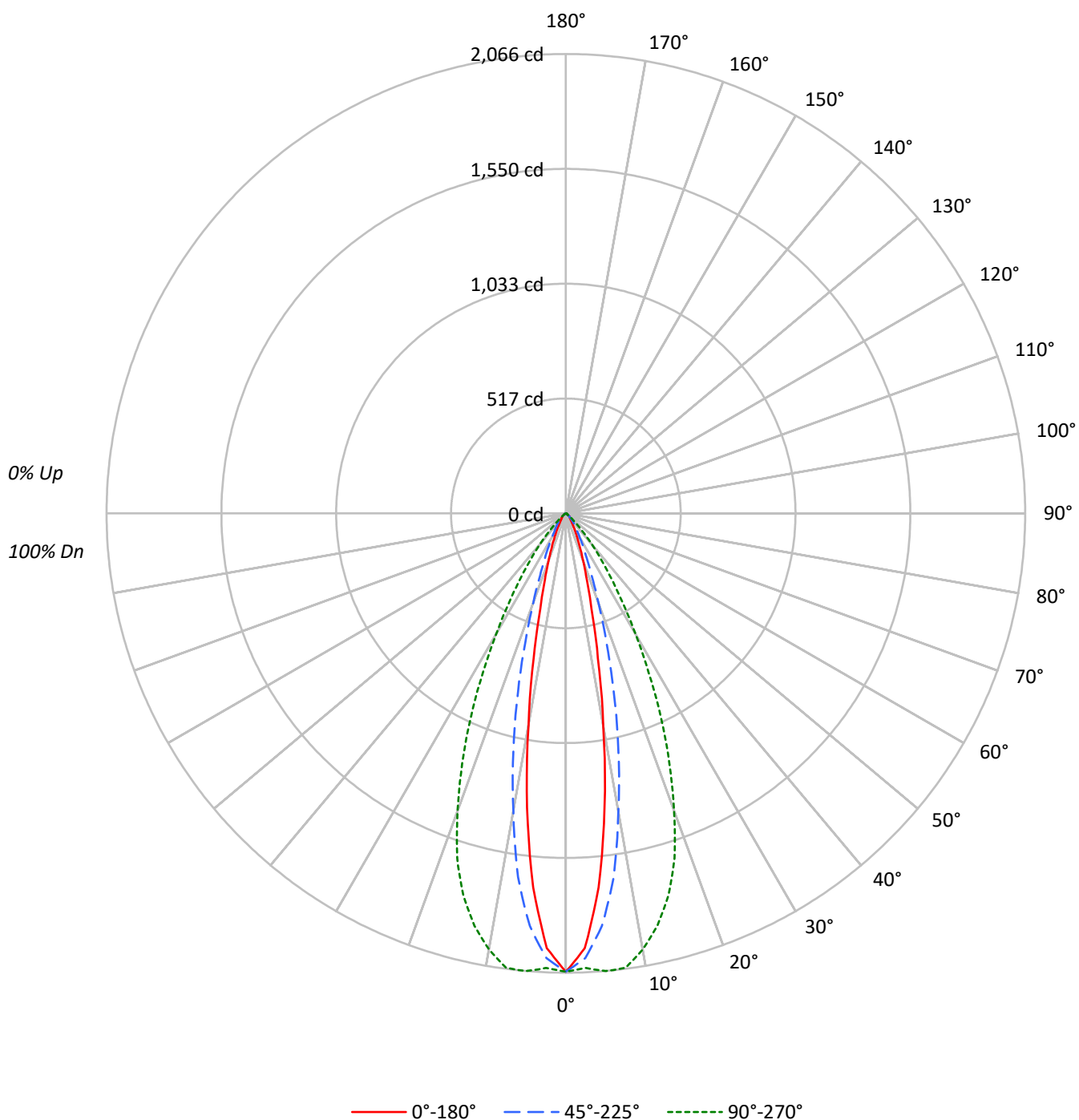
Lumens per Lamp: N/A
Luminaire Lumens: 741.0 lumens
Efficiency: N/A
Efficacy: 74.1 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.8 / 0.47
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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°	1016967	1016967	1016967
5°	836124	922545	1023427
10°	485342	681674	997787
15°	226116	424548	909265
20°	119128	223871	747373
25°	65977	121176	551223
30°	38682	70983	356509
35°	24874	47641	211221
40°	19386	32137	117344
45°	16815	19187	52189
50°	15197	13202	19112
55°	10322	9634	8860
60°	7598	6808	6808
65°	6070	5020	6070
70°	4904	4904	4904
75°	4956	4956	4956
80°	4830	4830	4830
85°	5095	5095	5095

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 52189 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.1	22.1
10°-20°	268.7	36.3
20°-30°	179.3	24.2
30°-40°	80.8	10.9
40°-50°	29.6	4.0
50°-60°	10.4	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°	612.1	82.6
0°-40°	692.9	93.5
0°-60°	732.9	98.9
0°-90°	741.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	741.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2061	2061	2061	2061	2061	
5°	1688	1741	1863	1999	2066	138
15°	443	520	831	1405	1780	133
25°	121	141	223	607	1013	59
35°	41	46	79	171	351	27
45°	24	24	28	43	75	19
55°	12	11	11	10	10	11
65°	5	5	4	4	5	5
75°	3	3	3	3	3	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°	2061.3	2061.3	2061.3	2061.3	2061.3
2.5°	1957.3	1977.9	2002.0	2026.9	2046.7
5°	1688.3	1740.7	1862.8	1998.6	2066.5
7.5°	1335.0	1412.3	1649.6	1917.8	2061.3
10°	968.8	1067.6	1360.7	1777.7	1991.7
12.5°	666.2	759.0	1091.7	1600.6	1899.7
15°	442.7	520.1	831.2	1404.6	1780.2
17.5°	312.0	364.5	604.3	1190.5	1626.4
20°	226.9	262.2	426.4	980.8	1423.5
22.5°	165.0	191.7	303.4	784.0	1218.1
25°	121.2	141.0	222.6	606.9	1012.6
27.5°	90.3	105.7	166.8	460.7	807.2
30°	67.9	80.8	124.6	339.5	625.8
32.5°	52.4	61.0	95.4	242.4	473.6
35°	41.3	46.4	79.1	171.1	350.7
37.5°	34.4	37.8	65.3	119.5	257.0
40°	30.1	32.7	49.9	85.1	182.2
42.5°	26.6	28.4	36.1	61.0	118.6
45°	24.1	24.1	27.5	43.0	74.8
47.5°	22.3	19.8	21.5	30.1	43.8
50°	19.8	16.3	17.2	20.6	24.9
52.5°	15.5	13.8	13.8	13.8	14.6
55°	12.0	11.2	11.2	9.5	10.3
57.5°	9.5	9.5	8.6	7.7	8.6
60°	7.7	7.7	6.9	6.0	6.9
62.5°	6.0	6.0	5.2	5.2	6.0
65°	5.2	5.2	4.3	4.3	5.2
67.5°	4.3	4.3	4.3	3.4	4.3
70°	3.4	3.4	3.4	3.4	3.4
72.5°	2.6	2.6	3.4	2.6	2.6
75°	2.6	2.6	2.6	2.6	2.6
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°	0.9	0.9	0.9	0.9	0.9
85°	0.9	0.9	0.9	0.9	0.9
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)