

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: P1178824

Luminaire Tested: LDA2B109024R2050D010 2LBD1H

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1178824
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: LDA2B109024R2050D010 2LBD1H
Description: 1000 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 2400K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

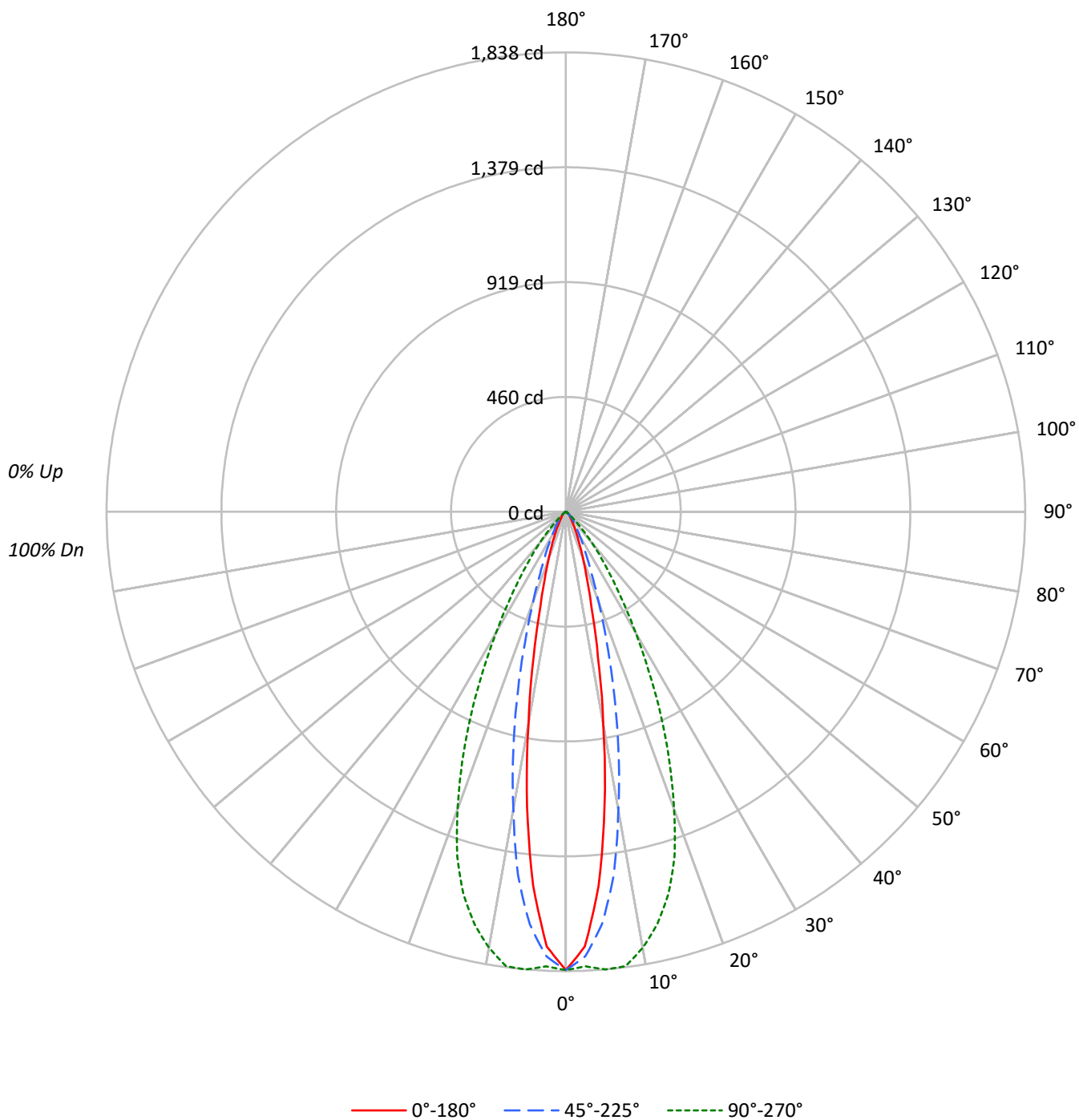
Lumens per Lamp: N/A
Luminaire Lumens: 659.2 lumens
Efficiency: N/A
Efficacy: 65.9 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.8 / 0.47
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1178824

CATALOG NUMBER: LDA2B109024R2050D010 2LBD1H

Luminous Intensity Polar Plot



TEST NUMBER: P1178824

CATALOG NUMBER: LDA2B109024R2050D010 2LBD1H

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°	904678	904678	904678
5°	743761	820623	910411
10°	431738	606427	887573
15°	201140	377660	808849
20°	106002	199142	664839
25°	58682	107839	490364
30°	34409	63178	317144
35°	22104	42341	187912
40°	17260	28595	104399
45°	14931	17094	46398
50°	13509	11743	17039
55°	9204	8515	7913
60°	6808	6019	6019
65°	5370	4436	5370
70°	4472	4472	4472
75°	4384	4384	4384
80°	4262	4262	4262
85°	4529	4529	4529

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 46398 cd/sqm

TEST NUMBER: P1178824

CATALOG NUMBER: LDA2B109024R2050D010 2LBD1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.0	22.1
10°-20°	239.1	36.3
20°-30°	159.5	24.2
30°-40°	71.9	10.9
40°-50°	26.3	4.0
50°-60°	9.2	1.4
60°-70°	4.3	0.7
70°-80°	2.3	0.3
80°-90°	0.6	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°	544.5	82.6
0°-40°	616.4	93.5
0°-60°	651.9	98.9
0°-90°	659.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	659.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1834	1834	1834	1834	1834	
5°	1502	1548	1657	1778	1838	123
15°	394	463	739	1250	1584	118
25°	108	125	198	540	901	52
35°	37	41	70	152	312	24
45°	21	21	24	38	66	17
55°	11	10	10	8	9	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	

TEST NUMBER: P1178824

CATALOG NUMBER: LDA2B109024R2050D010 2LBD1H

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1833.7	1833.7	1833.7	1833.7	1833.7
2.5°	1741.2	1759.5	1780.9	1803.1	1820.7
5°	1501.8	1548.5	1657.0	1777.9	1838.3
7.5°	1187.5	1256.4	1467.4	1706.0	1833.7
10°	861.8	949.7	1210.5	1581.3	1771.7
12.5°	592.6	675.2	971.1	1423.8	1689.9
15°	393.8	462.6	739.4	1249.5	1583.6
17.5°	277.6	324.2	537.6	1059.1	1446.8
20°	201.9	233.2	379.3	872.5	1266.3
22.5°	146.8	170.5	269.9	697.4	1083.5
25°	107.8	125.4	198.1	539.9	900.8
27.5°	80.3	94.1	148.3	409.9	718.0
30°	60.4	71.9	110.9	302.0	556.7
32.5°	46.6	54.3	84.9	215.6	421.3
35°	36.7	41.3	70.3	152.2	312.0
37.5°	30.6	33.6	58.1	106.3	228.6
40°	26.8	29.1	44.4	75.7	162.1
42.5°	23.7	25.2	32.1	54.3	105.5
45°	21.4	21.4	24.5	38.2	66.5
47.5°	19.9	17.6	19.1	26.8	39.0
50°	17.6	14.5	15.3	18.4	22.2
52.5°	13.8	12.2	12.2	12.2	13.0
55°	10.7	9.9	9.9	8.4	9.2
57.5°	8.4	8.4	7.6	6.9	7.6
60°	6.9	6.9	6.1	5.4	6.1
62.5°	5.4	5.4	4.6	4.6	5.4
65°	4.6	4.6	3.8	3.8	4.6
67.5°	3.8	3.8	3.8	3.1	3.8
70°	3.1	3.1	3.1	3.1	3.1
72.5°	2.3	2.3	3.1	2.3	2.3
75°	2.3	2.3	2.3	2.3	2.3
77.5°	1.5	1.5	1.5	1.5	1.5
80°	1.5	1.5	1.5	1.5	1.5
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)