

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: P1178825

Luminaire Tested: LDA2B109024R2050D010 2LBD1LI

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1178825
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 2LBD1LI
Description: 1000 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 2400K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

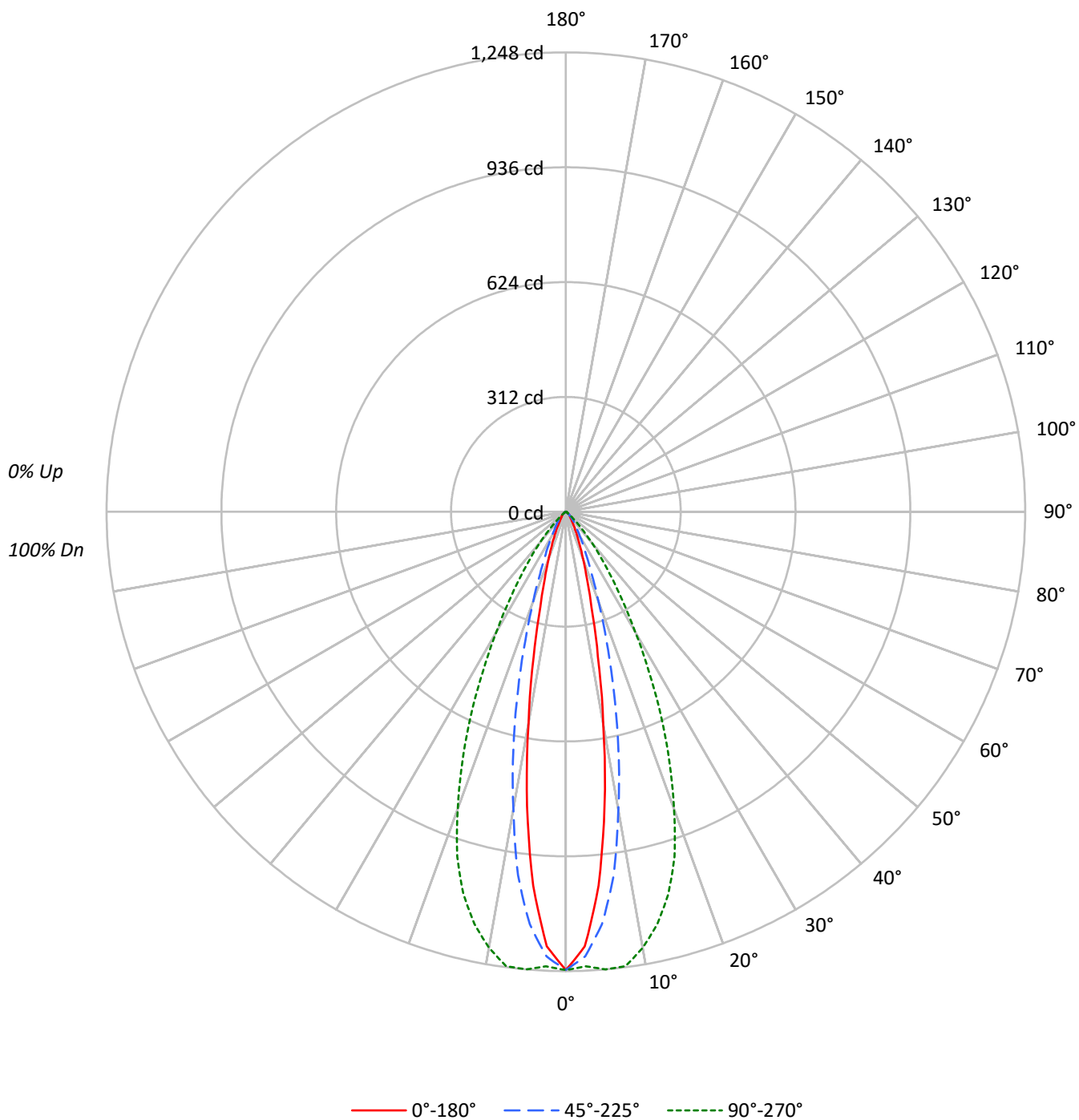
Lumens per Lamp: N/A
Luminaire Lumens: 447.4 lumens
Efficiency: N/A
Efficacy: 44.7 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.8 / 0.47
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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: P1178825

CATALOG NUMBER: LDA2B109024R2050D010 2LBD1LI

Luminous Intensity Polar Plot



TEST NUMBER: P1178825

CATALOG NUMBER: LDA2B109024R2050D010 2LBD1LI

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°	614137	614137	614137
5°	504904	557103	618018
10°	293069	411649	602520
15°	136528	256404	549073
20°	71928	135194	451311
25°	39847	73163	332879
30°	23357	42897	215284
35°	14997	28789	127564
40°	11721	19386	70844
45°	10117	11582	31537
50°	9134	7982	11590
55°	6279	5763	5333
60°	4638	4144	4144
65°	3619	3035	3619
70°	3029	3029	3029
75°	3050	3050	3050
80°	2841	2841	2841
85°	2830	2830	2830

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 31537 cd/sqm

TEST NUMBER: P1178825

CATALOG NUMBER: LDA2B109024R2050D010 2LBD1LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.1	22.2
10°-20°	162.3	36.3
20°-30°	108.2	24.2
30°-40°	48.8	10.9
40°-50°	17.9	4.0
50°-60°	6.2	1.4
60°-70°	2.9	0.7
70°-80°	1.5	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°	369.6	82.6
0°-40°	418.5	93.5
0°-60°	442.6	98.9
0°-90°	447.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	447.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1245	1245	1245	1245	1245	
5°	1020	1051	1125	1207	1248	83
15°	267	314	502	848	1075	80
25°	73	85	134	366	612	35
35°	25	28	48	103	212	17
45°	14	14	17	26	45	11
55°	7	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	

TEST NUMBER: P1178825

CATALOG NUMBER: LDA2B109024R2050D010 2LBD1LI

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1244.8	1244.8	1244.8	1244.8	1244.8
2.5°	1182.0	1194.4	1209.0	1224.0	1236.0
5°	1019.5	1051.2	1124.9	1206.9	1247.9
7.5°	806.2	852.9	996.1	1158.1	1244.8
10°	585.0	644.7	821.7	1073.5	1202.7
12.5°	402.3	458.4	659.2	966.6	1147.2
15°	267.3	314.1	502.0	848.2	1075.0
17.5°	188.4	220.1	364.9	718.9	982.1
20°	137.0	158.3	257.5	592.3	859.6
22.5°	99.7	115.8	183.2	473.4	735.6
25°	73.2	85.1	134.4	366.5	611.5
27.5°	54.5	63.8	100.7	278.2	487.4
30°	41.0	48.8	75.3	205.0	377.9
32.5°	31.7	36.9	57.6	146.4	286.0
35°	24.9	28.0	47.8	103.3	211.8
37.5°	20.8	22.8	39.5	72.2	155.2
40°	18.2	19.7	30.1	51.4	110.0
42.5°	16.1	17.1	21.8	36.9	71.6
45°	14.5	14.5	16.6	26.0	45.2
47.5°	13.5	11.9	13.0	18.2	26.5
50°	11.9	9.9	10.4	12.5	15.1
52.5°	9.3	8.3	8.3	8.3	8.8
55°	7.3	6.7	6.7	5.7	6.2
57.5°	5.7	5.7	5.2	4.7	5.2
60°	4.7	4.7	4.2	3.6	4.2
62.5°	3.6	3.6	3.1	3.1	3.6
65°	3.1	3.1	2.6	2.6	3.1
67.5°	2.6	2.6	2.6	2.1	2.6
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°	1.0	1.0	1.0	1.0	1.0
80°	1.0	1.0	1.0	1.0	1.0
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)