

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: P1178981

Luminaire Tested: LDA2B109040R2050D010 2LBD1LI

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1178981
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: LDA2B109040R2050D010 2LBD1LI
Description: 1000 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

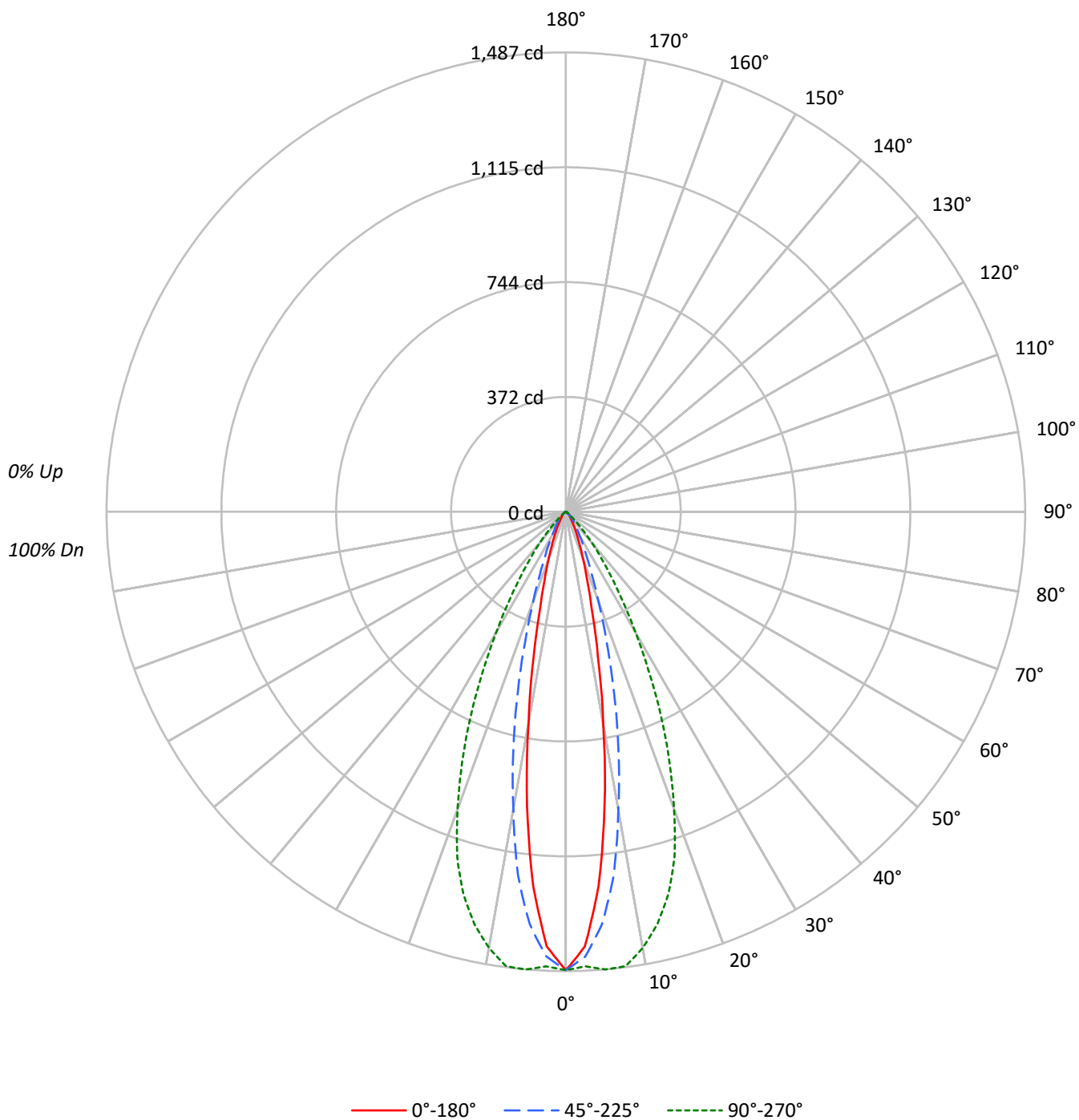
Lumens per Lamp: N/A
Luminaire Lumens: 533.3 lumens
Efficiency: N/A
Efficacy: 53.3 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.8 / 0.47
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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: P1178981

CATALOG NUMBER: LDA2B109040R2050D010 2LBD1LI

Luminous Intensity Polar Plot



TEST NUMBER: P1178981

CATALOG NUMBER: LDA2B109040R2050D010 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°	731952	731952	731952
5°	601774	663977	736580
10°	349328	490653	718144
15°	162730	305591	654444
20°	85737	161130	537888
25°	47469	87207	396733
30°	27858	51101	256586
35°	17888	34270	152016
40°	13976	23121	84498
45°	12071	13815	37537
50°	10899	9517	13739
55°	7483	6881	6365
60°	5526	4835	4835
65°	4319	3619	4319
70°	3606	3606	3606
75°	3622	3622	3622
80°	3409	3409	3409
85°	3396	3396	3396

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 37537 cd/sqm

TEST NUMBER: P1178981

CATALOG NUMBER: LDA2B109040R2050D010 2LBD1LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.1	22.2
10°-20°	193.4	36.3
20°-30°	129.0	24.2
30°-40°	58.2	10.9
40°-50°	21.3	4.0
50°-60°	7.4	1.4
60°-70°	3.5	0.7
70°-80°	1.8	0.3
80°-90°	0.5	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°	440.6	82.6
0°-40°	498.7	93.5
0°-60°	527.5	98.9
0°-90°	533.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	533.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1484	1484	1484	1484	1484	
5°	1215	1253	1341	1438	1487	99
15°	319	374	598	1011	1281	95
25°	87	102	160	437	729	42
35°	30	33	57	123	252	20
45°	17	17	20	31	54	14
55°	9	8	8	7	7	8
65°	4	4	3	3	4	4
75°	2	2	2	2	2	2
85°	1	1	1	1	1	0
90°	0	0	0	0	0	

TEST NUMBER: P1178981

CATALOG NUMBER: LDA2B109040R2050D010 2LBD1LI

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1483.6	1483.6	1483.6	1483.6	1483.6
2.5°	1408.7	1423.6	1440.9	1458.9	1473.1
5°	1215.1	1252.8	1340.7	1438.4	1487.3
7.5°	960.8	1016.5	1187.3	1380.3	1483.6
10°	697.3	768.4	979.4	1279.4	1433.5
12.5°	479.5	546.3	785.7	1152.0	1367.3
15°	318.6	374.3	598.3	1010.9	1281.3
17.5°	224.6	262.3	434.9	856.9	1170.6
20°	163.3	188.7	306.9	705.9	1024.5
22.5°	118.8	138.0	218.4	564.2	876.7
25°	87.2	101.5	160.2	436.8	728.8
27.5°	65.0	76.1	120.0	331.6	580.9
30°	48.9	58.2	89.7	244.4	450.4
32.5°	37.7	43.9	68.7	174.5	340.9
35°	29.7	33.4	56.9	123.1	252.4
37.5°	24.7	27.2	47.0	86.0	185.0
40°	21.7	23.5	35.9	61.2	131.2
42.5°	19.2	20.4	26.0	43.9	85.4
45°	17.3	17.3	19.8	30.9	53.8
47.5°	16.1	14.2	15.5	21.7	31.6
50°	14.2	11.8	12.4	14.8	17.9
52.5°	11.1	9.9	9.9	9.9	10.5
55°	8.7	8.0	8.0	6.8	7.4
57.5°	6.8	6.8	6.2	5.6	6.2
60°	5.6	5.6	4.9	4.3	4.9
62.5°	4.3	4.3	3.7	3.7	4.3
65°	3.7	3.7	3.1	3.1	3.7
67.5°	3.1	3.1	3.1	2.5	3.1
70°	2.5	2.5	2.5	2.5	2.5
72.5°	1.9	1.9	2.5	1.9	1.9
75°	1.9	1.9	1.9	1.9	1.9
77.5°	1.2	1.2	1.2	1.2	1.2
80°	1.2	1.2	1.2	1.2	1.2
82.5°	0.6	0.6	0.6	0.6	0.6
85°	0.6	0.6	0.6	0.6	0.6
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)