

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: P1178864

Luminaire Tested: LDA2B109027R2050D010 2LBD1LI

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1178864
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: LDA2B109027R2050D010 2LBD1LI
Description: 1000 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 2700K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

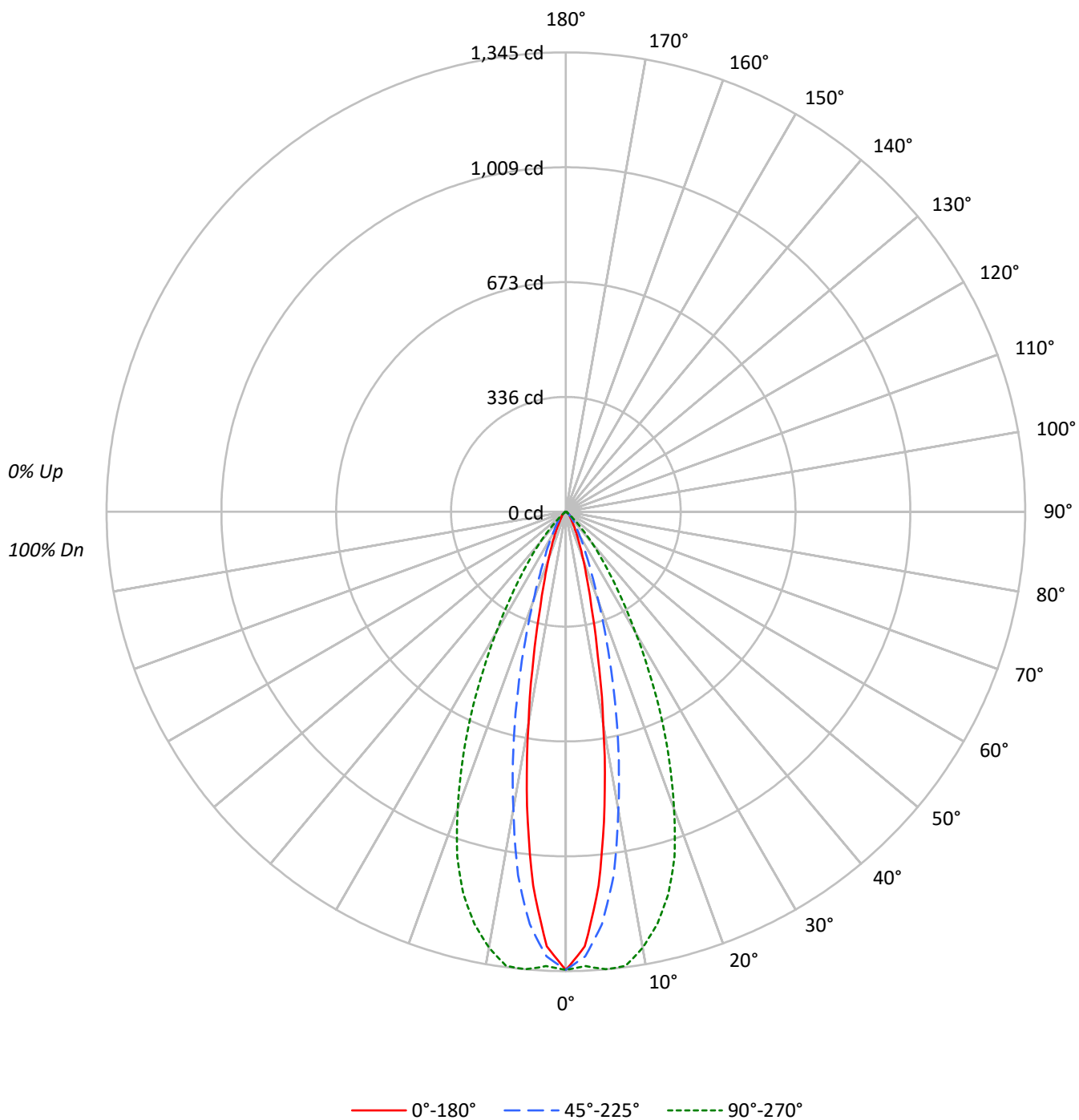
Lumens per Lamp: N/A
Luminaire Lumens: 482.2 lumens
Efficiency: N/A
Efficacy: 48.2 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.8 / 0.47
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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°	661697	661697	661697
5°	544028	600239	665908
10°	315813	443561	649211
15°	147101	276273	591671
20°	77546	145642	486278
25°	42950	78878	358682
30°	25180	46201	231976
35°	16141	31018	137441
40°	12623	20867	76383
45°	10954	12489	33979
50°	9901	8596	12434
55°	6709	6279	5763
60°	4934	4440	4440
65°	3969	3269	3969
70°	3173	3173	3173
75°	3241	3241	3241
80°	3125	3125	3125
85°	3396	3396	3396

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 33979 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.8	22.1
10°-20°	174.9	36.3
20°-30°	116.6	24.2
30°-40°	52.6	10.9
40°-50°	19.3	4.0
50°-60°	6.7	1.4
60°-70°	3.2	0.7
70°-80°	1.7	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°	398.3	82.6
0°-40°	450.9	93.5
0°-60°	476.9	98.9
0°-90°	482.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	482.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1341	1341	1341	1341	1341	
5°	1098	1133	1212	1300	1345	90
15°	288	338	541	914	1158	86
25°	79	92	145	395	659	38
35°	27	30	52	111	228	18
45°	16	16	18	28	49	12
55°	8	7	7	6	7	7
65°	3	3	3	3	3	3
75°	2	2	2	2	2	2
85°	1	1	1	1	1	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1341.2	1341.2	1341.2	1341.2	1341.2
2.5°	1273.6	1287.0	1302.7	1318.9	1331.7
5°	1098.5	1132.6	1212.0	1300.4	1344.6
7.5°	868.6	919.0	1073.3	1247.8	1341.2
10°	630.4	694.7	885.4	1156.7	1295.9
12.5°	433.5	493.9	710.3	1041.5	1236.1
15°	288.0	338.4	540.9	913.9	1158.4
17.5°	203.0	237.2	393.2	774.7	1058.2
20°	147.7	170.6	277.4	638.2	926.2
22.5°	107.4	124.7	197.4	510.1	792.6
25°	78.9	91.7	144.9	394.9	658.9
27.5°	58.7	68.8	108.5	299.8	525.2
30°	44.2	52.6	81.1	220.9	407.2
32.5°	34.1	39.7	62.1	157.7	308.2
35°	26.8	30.2	51.5	111.3	228.2
37.5°	22.4	24.6	42.5	77.7	167.2
40°	19.6	21.3	32.4	55.4	118.6
42.5°	17.3	18.5	23.5	39.7	77.2
45°	15.7	15.7	17.9	28.0	48.7
47.5°	14.5	12.9	14.0	19.6	28.5
50°	12.9	10.6	11.2	13.4	16.2
52.5°	10.1	8.9	8.9	8.9	9.5
55°	7.8	7.3	7.3	6.2	6.7
57.5°	6.2	6.2	5.6	5.0	5.6
60°	5.0	5.0	4.5	3.9	4.5
62.5°	3.9	3.9	3.4	3.4	3.9
65°	3.4	3.4	2.8	2.8	3.4
67.5°	2.8	2.8	2.8	2.2	2.8
70°	2.2	2.2	2.2	2.2	2.2
72.5°	1.7	1.7	2.2	1.7	1.7
75°	1.7	1.7	1.7	1.7	1.7
77.5°	1.1	1.1	1.1	1.1	1.1
80°	1.1	1.1	1.1	1.1	1.1
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)