

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: P1178636

Luminaire Tested: LDA2B108027R2050D010 2LBD1MW

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1178636
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: LDA2B108027R2050D010 2LBD1MW
Description: 1000 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 80 CRI LEDS AND 2700K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

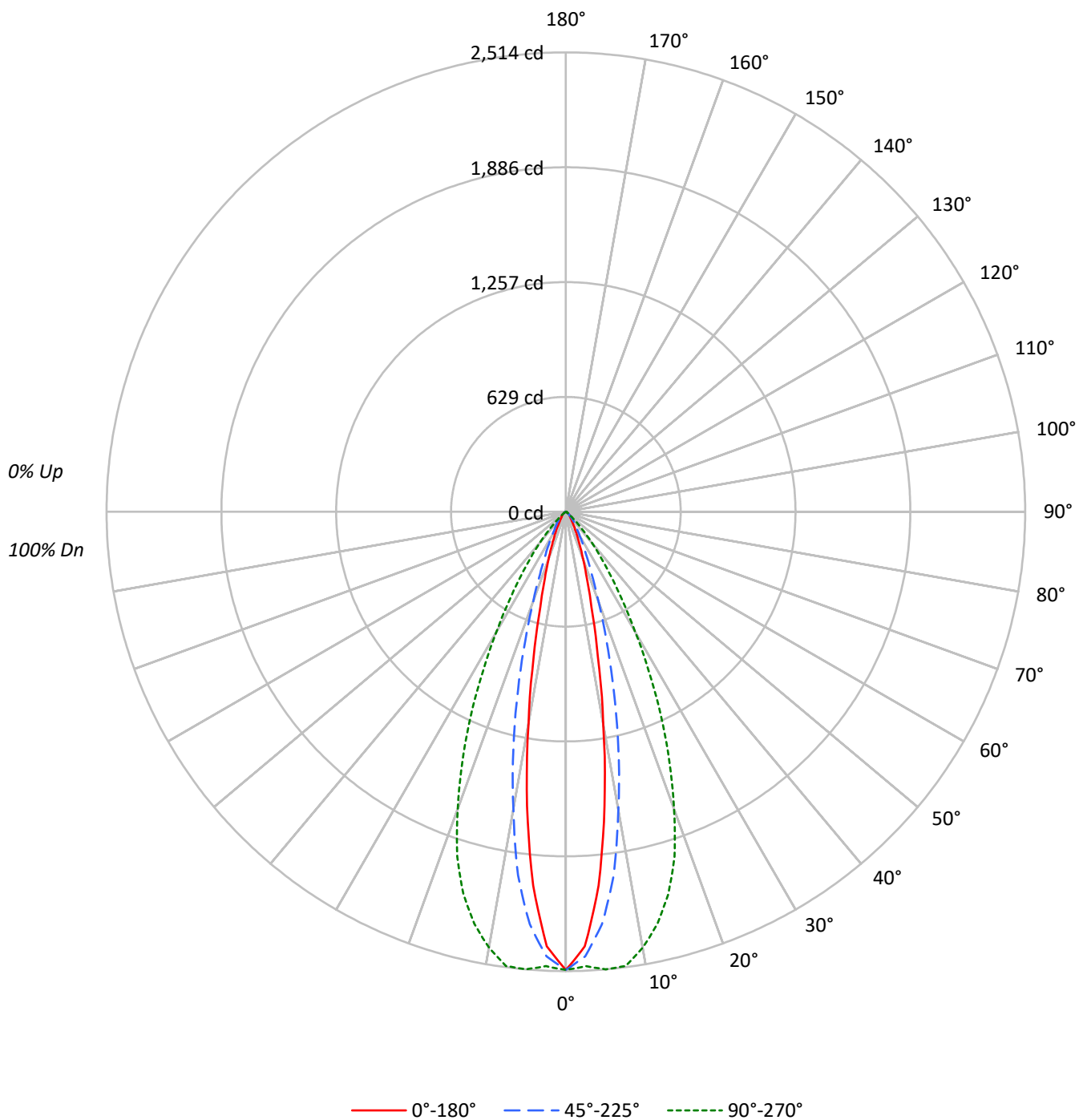
Lumens per Lamp: N/A
Luminaire Lumens: 901.2 lumens
Efficiency: N/A
Efficacy: 90.1 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.8 / 0.47
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1178636

CATALOG NUMBER: LDA2B108027R2050D010 2LBD1MW

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°	1236957	1236957	1236957
5°	1016939	1122080	1244802
10°	590296	829160	1213606
15°	275047	516384	1105961
20°	144907	272278	909028
25°	80239	147414	670439
30°	47056	86364	433644
35°	30235	57940	256934
40°	23572	39029	142783
45°	20443	23374	63492
50°	18421	16041	23256
55°	12558	11698	10752
60°	9275	8288	8288
65°	7355	6070	7355
70°	6058	6058	6058
75°	5909	5909	5909
80°	5966	5966	5966
85°	5661	5661	5661

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 63492 cd/sqm

TEST NUMBER: P1178636

CATALOG NUMBER: LDA2B108027R2050D010 2LBD1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.6	22.2
10°-20°	326.9	36.3
20°-30°	218.0	24.2
30°-40°	98.3	10.9
40°-50°	36.0	4.0
50°-60°	12.6	1.4
60°-70°	5.9	0.7
70°-80°	3.1	0.3
80°-90°	0.8	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°	744.5	82.6
0°-40°	842.8	93.5
0°-60°	891.4	98.9
0°-90°	901.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	901.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2507	2507	2507	2507	2507	
5°	2053	2117	2266	2431	2514	168
15°	538	633	1011	1708	2165	161
25°	147	172	271	738	1232	71
35°	50	56	96	208	427	33
45°	29	29	34	52	91	23
55°	15	14	14	12	12	14
65°	6	6	5	5	6	6
75°	3	3	3	3	3	3
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°	2507.2	2507.2	2507.2	2507.2	2507.2
2.5°	2380.7	2405.8	2435.1	2465.4	2489.4
5°	2053.4	2117.2	2265.7	2430.9	2513.5
7.5°	1623.7	1717.8	2006.4	2332.6	2507.2
10°	1178.3	1298.6	1655.1	2162.2	2422.5
12.5°	810.3	923.2	1327.8	1946.8	2310.6
15°	538.5	632.6	1011.0	1708.4	2165.3
17.5°	379.5	443.3	735.0	1448.1	1978.2
20°	276.0	318.9	518.6	1193.0	1731.4
22.5°	200.7	233.2	369.1	953.5	1481.5
25°	147.4	171.5	270.8	738.2	1231.6
27.5°	109.8	128.6	202.8	560.4	981.8
30°	82.6	98.3	151.6	413.0	761.2
32.5°	63.8	74.2	116.1	294.8	576.1
35°	50.2	56.5	96.2	208.1	426.6
37.5°	41.8	46.0	79.5	145.3	312.6
40°	36.6	39.7	60.6	103.5	221.7
42.5°	32.4	34.5	43.9	74.2	144.3
45°	29.3	29.3	33.5	52.3	91.0
47.5°	27.2	24.0	26.1	36.6	53.3
50°	24.0	19.9	20.9	25.1	30.3
52.5°	18.8	16.7	16.7	16.7	17.8
55°	14.6	13.6	13.6	11.5	12.5
57.5°	11.5	11.5	10.5	9.4	10.5
60°	9.4	9.4	8.4	7.3	8.4
62.5°	7.3	7.3	6.3	6.3	7.3
65°	6.3	6.3	5.2	5.2	6.3
67.5°	5.2	5.2	5.2	4.2	5.2
70°	4.2	4.2	4.2	4.2	4.2
72.5°	3.1	3.1	4.2	3.1	3.1
75°	3.1	3.1	3.1	3.1	3.1
77.5°	2.1	2.1	2.1	2.1	2.1
80°	2.1	2.1	2.1	2.1	2.1
82.5°	1.0	1.0	1.0	1.0	1.0
85°	1.0	1.0	1.0	1.0	1.0
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)