

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: P1178858

Luminaire Tested: LDA2B109027R2040D010 2LBDC1MB

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1178858
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2206-683-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/17/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDA2B109027R2040D010 2LBDC1MB
Description: 1000 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 2700K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

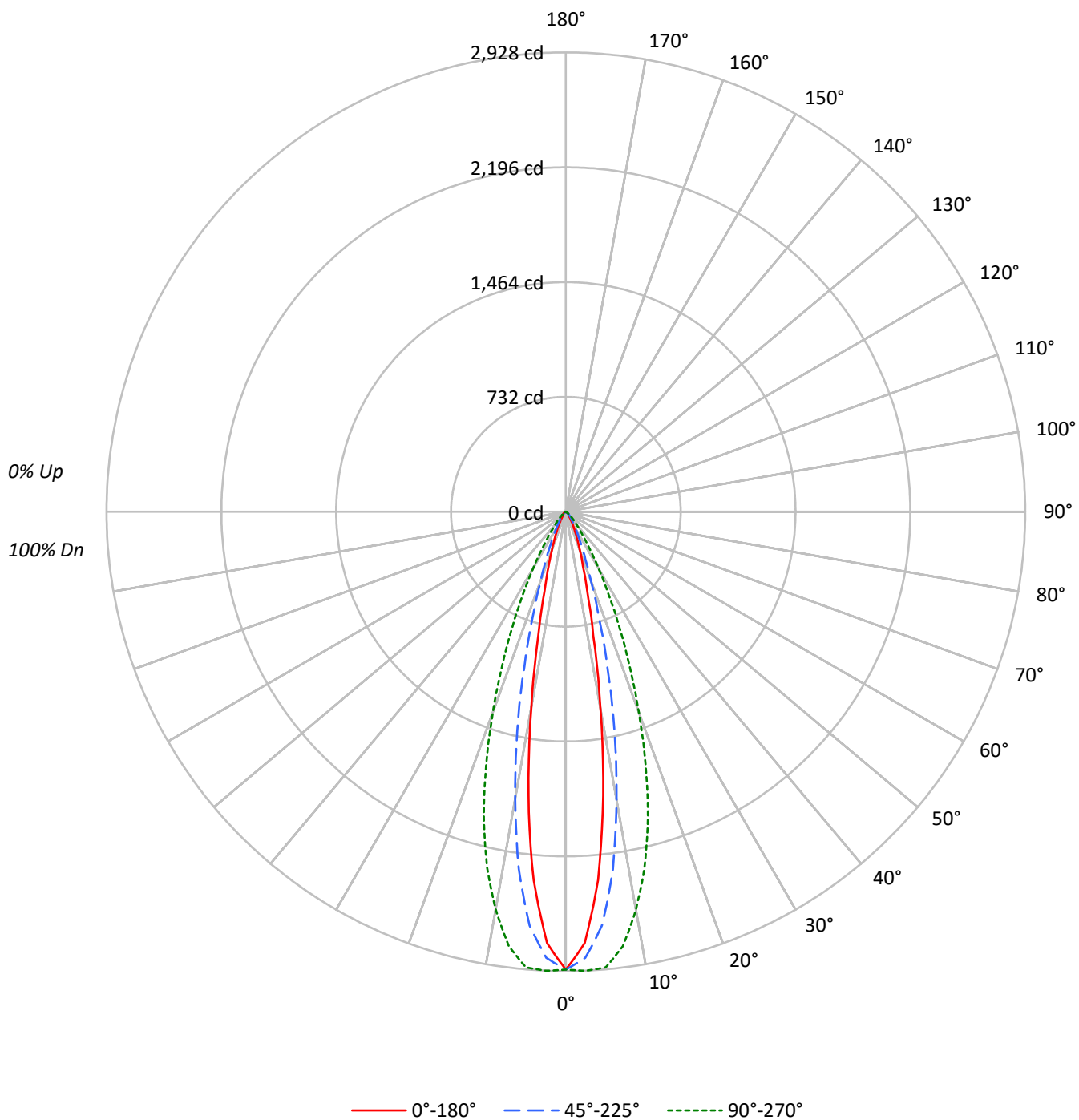
Lumens per Lamp: N/A
Luminaire Lumens: 822.6 lumens
Efficiency: N/A
Efficacy: 82.3 lumens/watt
Spacing Criteria (0/90/45): 0.31 / 0.63 / 0.43
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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: P1178858

CATALOG NUMBER: LDA2B109027R2040D010 2LBDC1MB

Luminous Intensity Polar Plot



TEST NUMBER: P1178858

CATALOG NUMBER: LDA2B109027R2040D010 2LBDC1MB

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20			
RC	80				70				50				30				10			0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	114	112	110	108	112	110	108	106	106	104	103		102	101	100		99	98	97	95
2	110	106	102	99	108	104	101	98	101	98	96		98	96	94		95	94	92	91
3	106	100	96	93	104	99	95	92	96	93	91		94	92	89		92	90	88	87
4	102	95	91	87	100	94	90	87	92	89	86		90	87	85		89	86	84	83
5	98	91	86	83	97	90	86	83	89	85	82		87	84	81		86	83	81	79
6	94	87	83	79	93	87	82	79	85	81	78		84	80	78		83	80	77	76
7	91	84	79	76	90	83	79	75	82	78	75		81	77	75		80	77	74	73
8	88	81	76	73	87	80	76	72	79	75	72		78	75	72		77	74	72	70
9	85	78	73	70	84	77	73	70	76	72	70		76	72	69		75	72	69	68
10	83	75	70	67	82	75	70	67	74	70	67		73	70	67		73	69	67	66

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1439926	1439926	1439926
5°	1167147	1310917	1443643
10°	634582	930707	1289153
15°	268407	522309	1031900
20°	137031	245607	713508
25°	75884	125639	434893
30°	42499	69786	237160
35°	24573	42220	120818
40°	18291	32009	66916
45°	16117	21699	39630
50°	17039	14276	21107
55°	12214	9892	11440
60°	7894	7006	7006
65°	6187	6187	6187
70°	5193	5193	5193
75°	5147	5147	5147
80°	5114	5114	5114
85°	5095	5095	5095

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 39630 cd/sqm

TEST NUMBER: P1178858

CATALOG NUMBER: LDA2B109027R2040D010 2LBDC1MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	227.4	27.6
10°-20°	321.6	39.1
20°-30°	165.7	20.1
30°-40°	61.0	7.4
40°-50°	26.8	3.3
50°-60°	11.7	1.4
60°-70°	5.1	0.6
70°-80°	2.6	0.3
80°-90°	0.7	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°	714.7	86.9
0°-40°	775.6	94.3
0°-60°	814.1	99.0
0°-90°	822.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	822.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2919	2919	2919	2919	2919	
5°	2357	2437	2647	2834	2915	190
15°	526	611	1023	1706	2020	161
25°	139	156	231	530	799	67
35°	41	47	70	122	201	28
45°	23	27	31	37	57	19
55°	14	12	12	12	13	13
65°	5	5	5	4	5	5
75°	3	3	3	3	3	3
85°	1	1	1	1	1	1
90°	0	0	0	0	0	

TEST NUMBER: P1178858

CATALOG NUMBER: LDA2B109027R2040D010 2LBDC1MB

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2918.6	2918.6	2918.6	2918.6	2918.6
2.5°	2751.7	2784.5	2845.8	2904.4	2928.3
5°	2356.7	2436.6	2647.0	2834.2	2915.0
7.5°	1825.0	1956.4	2297.2	2647.8	2791.6
10°	1266.7	1399.8	1857.8	2362.0	2573.3
12.5°	807.8	937.4	1431.8	2045.1	2319.4
15°	525.5	610.7	1022.6	1706.0	2020.3
17.5°	364.8	425.2	695.9	1346.6	1689.2
20°	261.0	303.6	467.8	1027.0	1359.0
22.5°	189.1	218.4	324.9	750.1	1056.3
25°	139.4	156.2	230.8	529.9	798.9
27.5°	103.0	113.6	166.9	365.7	584.1
30°	74.6	83.4	122.5	251.2	416.3
32.5°	54.1	62.1	91.4	174.0	290.3
35°	40.8	47.0	70.1	122.5	200.6
37.5°	33.7	37.3	57.7	88.8	142.0
40°	28.4	32.0	49.7	65.7	103.9
42.5°	24.9	29.3	40.8	48.8	78.1
45°	23.1	26.6	31.1	37.3	56.8
47.5°	23.1	22.2	24.0	28.4	39.9
50°	22.2	18.6	18.6	22.2	27.5
52.5°	18.6	15.1	15.1	16.0	18.6
55°	14.2	12.4	11.5	12.4	13.3
57.5°	10.7	10.7	9.8	8.9	9.8
60°	8.0	8.0	7.1	7.1	7.1
62.5°	6.2	6.2	6.2	5.3	6.2
65°	5.3	5.3	5.3	4.4	5.3
67.5°	4.4	4.4	3.6	4.4	4.4
70°	3.6	3.6	3.6	3.6	3.6
72.5°	2.7	2.7	2.7	2.7	2.7
75°	2.7	2.7	2.7	2.7	2.7
77.5°	1.8	1.8	1.8	1.8	1.8
80°	1.8	1.8	1.8	1.8	1.8
82.5°	0.9	0.9	0.9	0.9	0.9
85°	0.9	0.9	0.9	0.9	0.9
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)