

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: P1178123

Luminaire Tested: LDA2B058027R2040D010 2LBDC1MB

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1178123
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: LDA2B058027R2040D010 2LBDC1MB
Description: 500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 80 CRI LEDS AND 2700K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

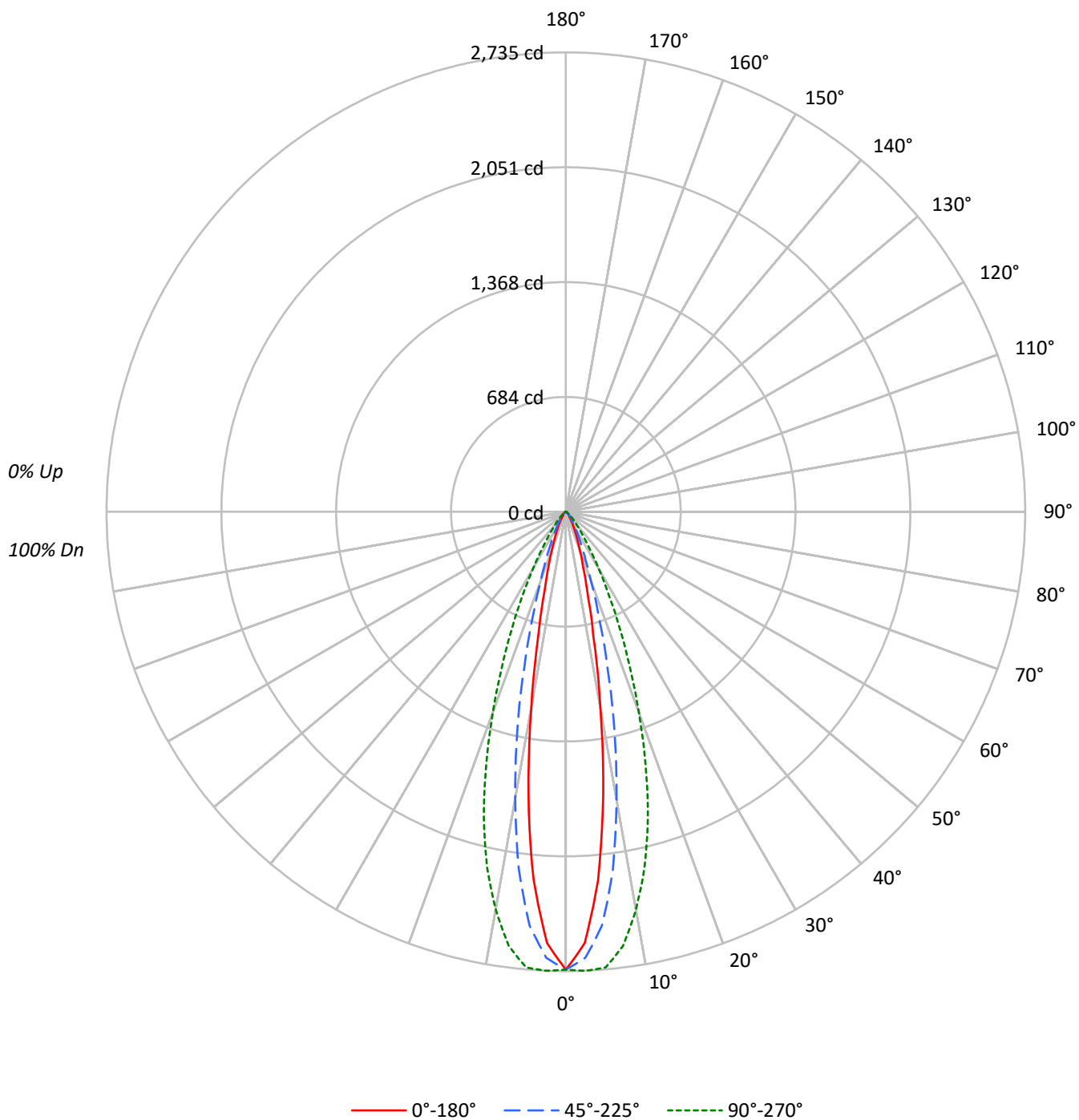
Lumens per Lamp: N/A
Luminaire Lumens: 768.3 lumens
Efficiency: N/A
Efficacy: 109.8 lumens/watt
Spacing Criteria (0/90/45): 0.31 / 0.63 / 0.43
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 7
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: P1178123

CATALOG NUMBER: LDA2B058027R2040D010 2LBDC1MB

Luminous Intensity Polar Plot



TEST NUMBER: P1178123

CATALOG NUMBER: LDA2B058027R2040D010 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	88	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°	1344954	1344954	1344954
5°	1090186	1224447	1348457
10°	592701	869338	1204138
15°	250684	487832	963815
20°	128001	229383	666466
25°	70876	117365	406205
30°	39650	65172	221551
35°	22947	39450	112868
40°	17067	29883	62472
45°	15071	20234	37049
50°	15888	13355	19726
55°	11440	9290	10666
60°	7400	6512	6512
65°	5837	5837	5837
70°	4760	4760	4760
75°	4766	4766	4766
80°	4830	4830	4830
85°	4529	4529	4529

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 37049 cd/sqm

TEST NUMBER: P1178123

CATALOG NUMBER: LDA2B058027R2040D010 2LBDC1MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.4	27.6
10°-20°	300.4	39.1
20°-30°	154.7	20.1
30°-40°	56.9	7.4
40°-50°	25.0	3.3
50°-60°	11.0	1.4
60°-70°	4.8	0.6
70°-80°	2.4	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°	667.5	86.9
0°-40°	724.5	94.3
0°-60°	760.4	99.0
0°-90°	768.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	768.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2726	2726	2726	2726	2726	
5°	2201	2276	2472	2647	2723	177
15°	491	570	955	1594	1887	150
25°	130	146	216	495	746	62
35°	38	44	66	114	187	26
45°	22	25	29	35	53	17
55°	13	12	11	12	12	12
65°	5	5	5	4	5	5
75°	2	2	2	2	2	2
85°	1	1	1	1	1	1
90°	0	0	0	0	0	

TEST NUMBER: P1178123

CATALOG NUMBER: LDA2B058027R2040D010 2LBDC1MB

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2726.1	2726.1	2726.1	2726.1	2726.1
2.5°	2570.2	2600.9	2658.1	2712.8	2735.2
5°	2201.3	2275.9	2472.4	2647.3	2722.8
7.5°	1704.6	1827.4	2145.7	2473.2	2607.5
10°	1183.1	1307.5	1735.3	2206.3	2403.6
12.5°	754.5	875.5	1337.3	1910.3	2166.5
15°	490.8	570.4	955.1	1593.5	1887.0
17.5°	340.8	397.1	650.0	1257.8	1577.8
20°	243.8	283.6	436.9	959.3	1269.4
22.5°	176.6	204.0	303.5	700.6	986.6
25°	130.2	145.9	215.6	495.0	746.2
27.5°	96.2	106.1	155.9	341.6	545.6
30°	69.6	77.9	114.4	234.6	388.9
32.5°	50.6	58.0	85.4	162.5	271.1
35°	38.1	43.9	65.5	114.4	187.4
37.5°	31.5	34.8	53.9	82.9	132.7
40°	26.5	29.8	46.4	61.4	97.0
42.5°	23.2	27.4	38.1	45.6	73.0
45°	21.6	24.9	29.0	34.8	53.1
47.5°	21.6	20.7	22.4	26.5	37.3
50°	20.7	17.4	17.4	20.7	25.7
52.5°	17.4	14.1	14.1	14.9	17.4
55°	13.3	11.6	10.8	11.6	12.4
57.5°	9.9	9.9	9.1	8.3	9.1
60°	7.5	7.5	6.6	6.6	6.6
62.5°	5.8	5.8	5.8	5.0	5.8
65°	5.0	5.0	5.0	4.1	5.0
67.5°	4.1	4.1	3.3	4.1	4.1
70°	3.3	3.3	3.3	3.3	3.3
72.5°	2.5	2.5	2.5	2.5	2.5
75°	2.5	2.5	2.5	2.5	2.5
77.5°	1.7	1.7	1.7	1.7	1.7
80°	1.7	1.7	1.7	1.7	1.7
82.5°	0.8	0.8	0.8	0.8	0.8
85°	0.8	0.8	0.8	0.8	0.8
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)