

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: P1178542

Luminaire Tested: LDA2B059727R2040D010 2LBD1LI

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1178542
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: LDA2B059727R2040D010 2LBD1LI
Description: 500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 97 CRI LEDS AND 2700K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

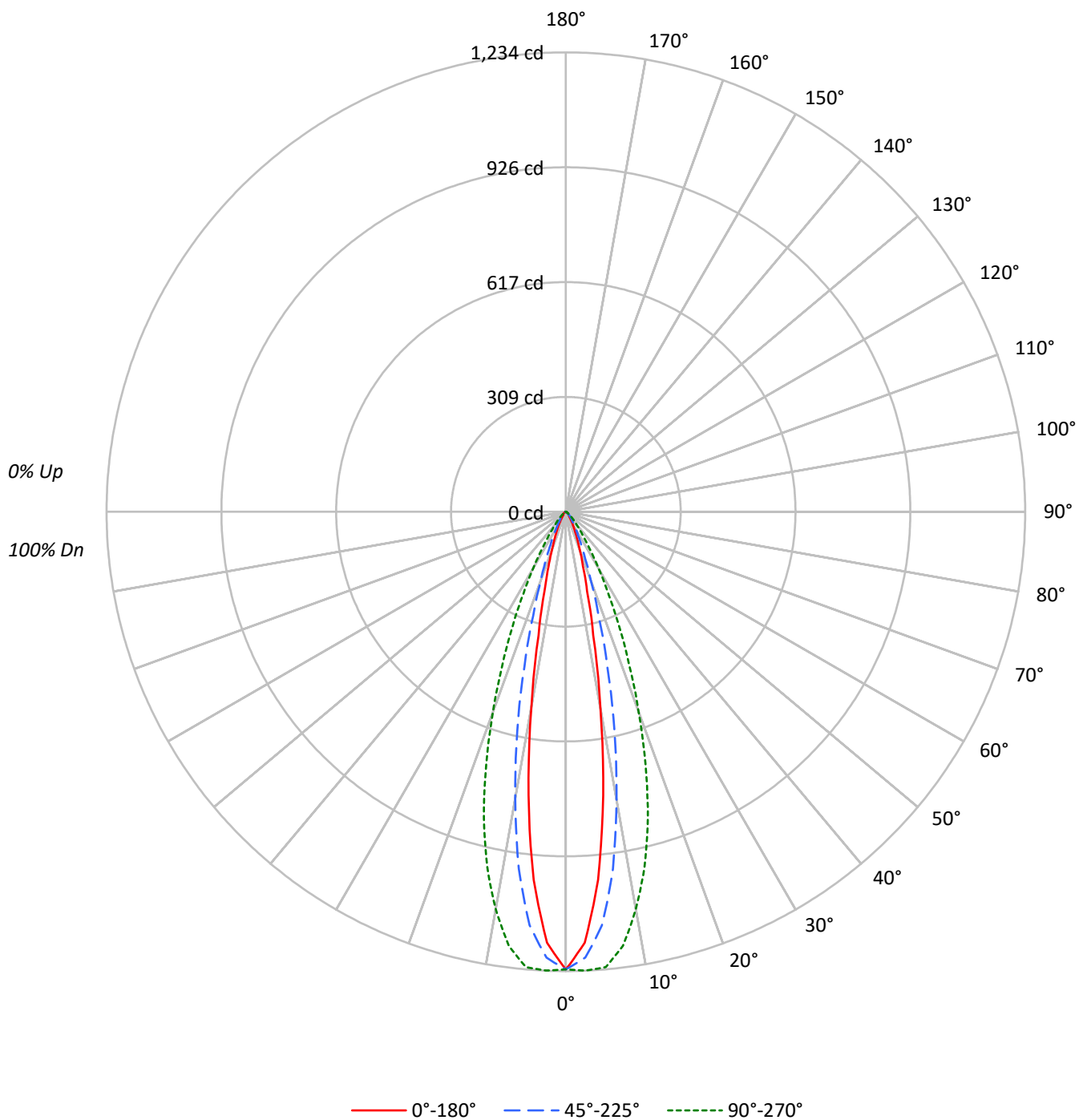
Lumens per Lamp: N/A
Luminaire Lumens: 346.5 lumens
Efficiency: N/A
Efficacy: 49.5 lumens/watt
Spacing Criteria (0/90/45): 0.31 / 0.63 / 0.43
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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

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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			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	100	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	96	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	95	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°	606539	606539	606539
5°	491631	552150	608113
10°	267269	392061	543004
15°	113032	219987	434662
20°	57700	103430	300524
25°	31954	52912	183179
30°	17888	29396	99923
35°	10359	17767	50893
40°	7728	13460	28144
45°	6768	9140	16675
50°	7138	6064	8903
55°	5161	4215	4817
60°	3355	2960	2960
65°	2568	2568	2568
70°	2164	2164	2164
75°	2097	2097	2097
80°	1989	1989	1989
85°	2264	2264	2264

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 16675 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.8	27.6
10°-20°	135.5	39.1
20°-30°	69.8	20.1
30°-40°	25.7	7.4
40°-50°	11.3	3.3
50°-60°	5.0	1.4
60°-70°	2.2	0.6
70°-80°	1.1	0.3
80°-90°	0.3	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°	301.0	86.9
0°-40°	326.7	94.3
0°-60°	342.9	99.0
0°-90°	346.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	346.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1229	1229	1229	1229	1229	
5°	993	1026	1115	1194	1228	80
15°	221	257	431	719	851	68
25°	59	66	97	223	336	28
35°	17	20	30	52	84	12
45°	10	11	13	16	24	8
55°	6	5	5	5	6	5
65°	2	2	2	2	2	2
75°	1	1	1	1	1	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1229.4	1229.4	1229.4	1229.4	1229.4
2.5°	1159.1	1172.9	1198.7	1223.4	1233.5
5°	992.7	1026.3	1114.9	1193.8	1227.9
7.5°	768.7	824.1	967.6	1115.3	1175.9
10°	533.5	589.6	782.6	994.9	1083.9
12.5°	340.2	394.8	603.1	861.4	977.0
15°	221.3	257.2	430.7	718.6	851.0
17.5°	153.7	179.1	293.1	567.2	711.5
20°	109.9	127.9	197.0	432.6	572.4
22.5°	79.6	92.0	136.8	315.9	444.9
25°	58.7	65.8	97.2	223.2	336.5
27.5°	43.4	47.9	70.3	154.0	246.0
30°	31.4	35.1	51.6	105.8	175.4
32.5°	22.8	26.2	38.5	73.3	122.3
35°	17.2	19.8	29.5	51.6	84.5
37.5°	14.2	15.7	24.3	37.4	59.8
40°	12.0	13.5	20.9	27.7	43.7
42.5°	10.5	12.3	17.2	20.6	32.9
45°	9.7	11.2	13.1	15.7	23.9
47.5°	9.7	9.3	10.1	12.0	16.8
50°	9.3	7.9	7.9	9.3	11.6
52.5°	7.9	6.4	6.4	6.7	7.9
55°	6.0	5.2	4.9	5.2	5.6
57.5°	4.5	4.5	4.1	3.7	4.1
60°	3.4	3.4	3.0	3.0	3.0
62.5°	2.6	2.6	2.6	2.2	2.6
65°	2.2	2.2	2.2	1.9	2.2
67.5°	1.9	1.9	1.5	1.9	1.9
70°	1.5	1.5	1.5	1.5	1.5
72.5°	1.1	1.1	1.1	1.1	1.1
75°	1.1	1.1	1.1	1.1	1.1
77.5°	0.7	0.7	0.7	0.7	0.7
80°	0.7	0.7	0.7	0.7	0.7
82.5°	0.4	0.4	0.4	0.4	0.4
85°	0.4	0.4	0.4	0.4	0.4
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)