

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: P1178549

Luminaire Tested: LDA2B059727R2040D010 2LBDC1MB

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1178549
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 2LBDC1MB
Description: 500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 97 CRI LEDS AND 2700K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

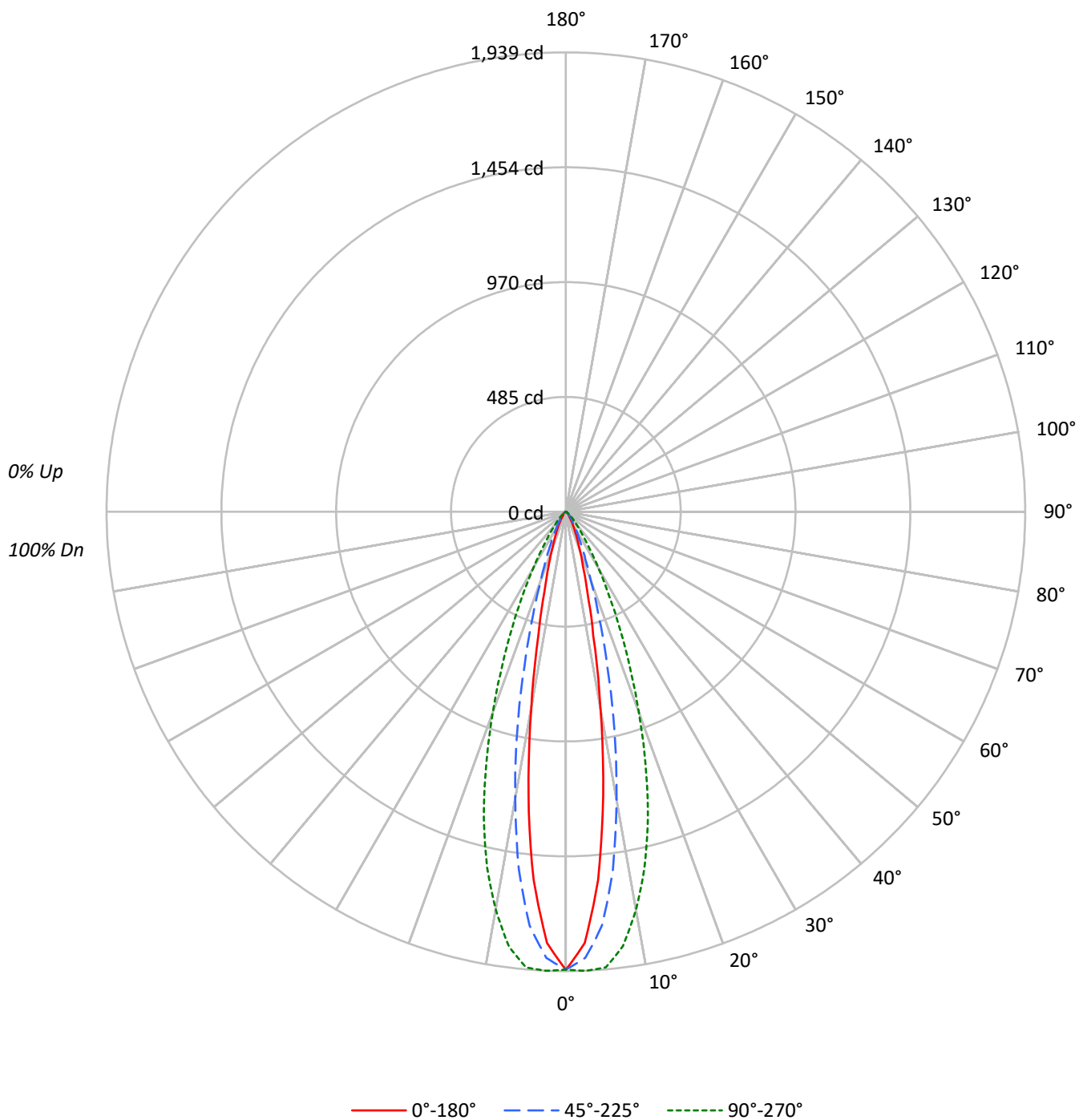
Lumens per Lamp: N/A
Luminaire Lumens: 544.8 lumens
Efficiency: N/A
Efficacy: 77.8 lumens/watt
Spacing Criteria (0/90/45): 0.31 / 0.63 / 0.43
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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

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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	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°	953668	953668	953668
5°	772981	868216	956123
10°	420266	616397	853808
15°	177746	345891	683405
20°	90724	162653	472575
25°	50245	83233	288023
30°	28142	46201	157062
35°	16262	27946	80043
40°	12108	21189	44310
45°	10675	14373	26234
50°	11283	9441	13969
55°	8085	6537	7569
60°	5230	4638	4638
65°	4086	4086	4086
70°	3462	3462	3462
75°	3431	3431	3431
80°	3409	3409	3409
85°	3396	3396	3396

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 26234 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.6	27.6
10°-20°	213.0	39.1
20°-30°	109.7	20.1
30°-40°	40.4	7.4
40°-50°	17.7	3.3
50°-60°	7.8	1.4
60°-70°	3.4	0.6
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°	473.3	86.9
0°-40°	513.7	94.3
0°-60°	539.2	99.0
0°-90°	544.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	544.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1933	1933	1933	1933	1933	
5°	1561	1614	1753	1877	1931	126
15°	348	404	677	1130	1338	106
25°	92	104	153	351	529	44
35°	27	31	46	81	133	18
45°	15	18	21	25	38	12
55°	9	8	8	8	9	9
65°	4	4	4	3	4	4
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°	1933.0	1933.0	1933.0	1933.0	1933.0
2.5°	1822.4	1844.2	1884.8	1923.6	1939.4
5°	1560.8	1613.7	1753.1	1877.1	1930.6
7.5°	1208.7	1295.7	1521.5	1753.7	1848.9
10°	838.9	927.1	1230.4	1564.4	1704.3
12.5°	535.0	620.8	948.3	1354.5	1536.1
15°	348.0	404.5	677.2	1129.9	1338.0
17.5°	241.6	281.6	460.9	891.8	1118.7
20°	172.8	201.1	309.8	680.2	900.1
22.5°	125.2	144.6	215.2	496.8	699.6
25°	92.3	103.5	152.9	351.0	529.1
27.5°	68.2	75.2	110.5	242.2	386.8
30°	49.4	55.3	81.1	166.4	275.7
32.5°	35.9	41.2	60.6	115.2	192.2
35°	27.0	31.2	46.4	81.1	132.9
37.5°	22.3	24.7	38.2	58.8	94.1
40°	18.8	21.2	32.9	43.5	68.8
42.5°	16.5	19.4	27.0	32.3	51.7
45°	15.3	17.6	20.6	24.7	37.6
47.5°	15.3	14.7	15.9	18.8	26.5
50°	14.7	12.3	12.3	14.7	18.2
52.5°	12.3	10.0	10.0	10.6	12.3
55°	9.4	8.2	7.6	8.2	8.8
57.5°	7.1	7.1	6.5	5.9	6.5
60°	5.3	5.3	4.7	4.7	4.7
62.5°	4.1	4.1	4.1	3.5	4.1
65°	3.5	3.5	3.5	2.9	3.5
67.5°	2.9	2.9	2.4	2.9	2.9
70°	2.4	2.4	2.4	2.4	2.4
72.5°	1.8	1.8	1.8	1.8	1.8
75°	1.8	1.8	1.8	1.8	1.8
77.5°	1.2	1.2	1.2	1.2	1.2
80°	1.2	1.2	1.2	1.2	1.2
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)