

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: P1178511

Luminaire Tested: LDA2B059050R2040D010 2LBDC1MMS

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1178511
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: LDA2B059050R2040D010 2LBDC1MMS
Description: 500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

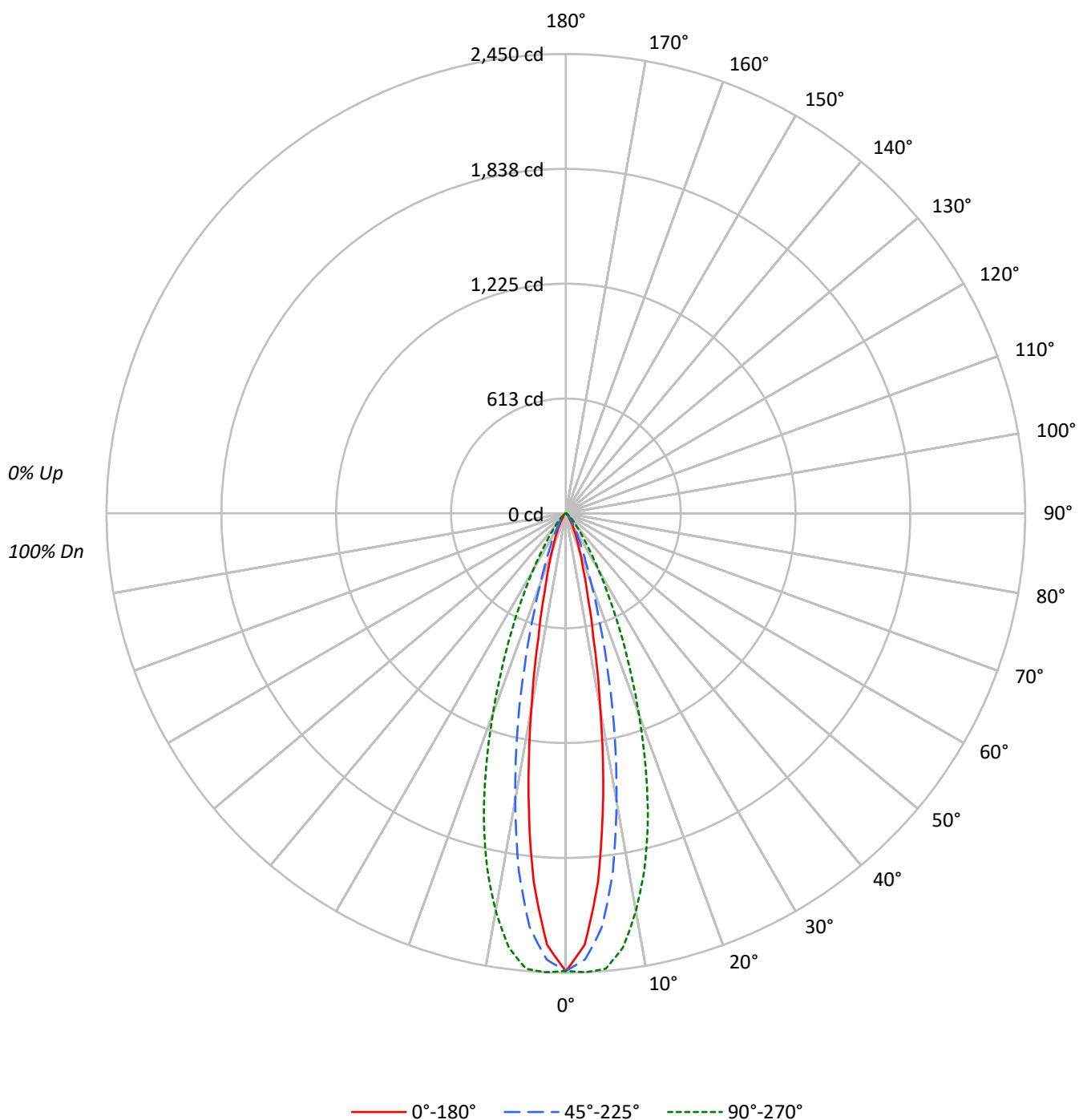
Lumens per Lamp: N/A
Luminaire Lumens: 688.1 lumens
Efficiency: N/A
Efficacy: 98.3 lumens/watt
Spacing Criteria (0/90/45): 0.31 / 0.63 / 0.43
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P1178511

CATALOG NUMBER: LDA2B059050R2040D010 2LBDC1MMS

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	110	108	112	110	108	106	106	104	103		102	101	100		99
2	110	106	102	99	108	104	101	98	101	98	96		98	96	94		95
3	106	100	96	93	104	99	95	92	96	93	91		94	92	89		92
4	102	95	91	88	100	94	90	87	92	89	86		90	87	85		89
5	98	91	86	83	97	90	86	83	89	85	82		87	84	81		86
6	94	87	83	79	93	87	82	79	85	81	78		84	80	78		83
7	91	84	79	76	90	83	79	75	82	78	75		81	77	75		80
8	88	81	76	73	87	80	76	72	79	75	72		78	75	72		77
9	85	78	73	70	84	77	73	70	76	72	70		76	72	69		75
10	83	75	70	67	82	75	70	67	74	70	67		73	70	67		73

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1204444	1204444	1204444
5°	976279	1096525	1207559
10°	530781	778512	1078344
15°	224533	436909	863143
20°	114613	205442	596848
25°	63473	105062	363744
30°	35548	58393	198364
35°	20598	35354	101063
40°	15328	26792	55967
45°	13466	18141	33142
50°	14276	11974	17653
55°	10236	8343	9548
60°	6611	5822	5822
65°	5253	5253	5253
70°	4327	4327	4327
75°	4194	4194	4194
80°	4262	4262	4262
85°	3962	3962	3962

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 33142 cd/sqm

TEST NUMBER: P1178511

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.2	27.6
10°-20°	269.0	39.1
20°-30°	138.6	20.1
30°-40°	51.0	7.4
40°-50°	22.4	3.3
50°-60°	9.8	1.4
60°-70°	4.3	0.6
70°-80°	2.1	0.3
80°-90°	0.6	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°	597.8	86.9
0°-40°	648.8	94.3
0°-60°	681.0	99.0
0°-90°	688.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	688.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2441	2441	2441	2441	2441	
5°	1971	2038	2214	2371	2438	159
15°	440	511	855	1427	1690	134
25°	117	131	193	443	668	56
35°	34	39	59	102	168	23
45°	19	22	26	31	48	16
55°	12	10	10	10	11	11
65°	4	4	4	4	4	5
75°	2	2	2	2	2	2
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°	2441.3	2441.3	2441.3	2441.3	2441.3
2.5°	2301.7	2329.2	2380.4	2429.4	2449.5
5°	1971.3	2038.1	2214.1	2370.8	2438.3
7.5°	1526.6	1636.5	1921.6	2214.9	2335.1
10°	1059.5	1170.9	1554.0	1975.8	2152.5
12.5°	675.7	784.1	1197.6	1710.7	1940.1
15°	439.6	510.8	855.4	1427.1	1689.9
17.5°	305.2	355.7	582.1	1126.4	1413.0
20°	218.3	253.9	391.3	859.1	1136.8
22.5°	158.2	182.7	271.8	627.4	883.6
25°	116.6	130.7	193.0	443.3	668.2
27.5°	86.1	95.0	139.6	305.9	488.6
30°	62.4	69.8	102.5	210.1	348.2
32.5°	45.3	52.0	76.5	145.5	242.8
35°	34.2	39.4	58.7	102.5	167.8
37.5°	28.2	31.2	48.3	74.2	118.8
40°	23.8	26.7	41.6	54.9	86.9
42.5°	20.8	24.5	34.2	40.8	65.3
45°	19.3	22.3	26.0	31.2	47.5
47.5°	19.3	18.6	20.0	23.8	33.4
50°	18.6	15.6	15.6	18.6	23.0
52.5°	15.6	12.6	12.6	13.4	15.6
55°	11.9	10.4	9.7	10.4	11.1
57.5°	8.9	8.9	8.2	7.4	8.2
60°	6.7	6.7	5.9	5.9	5.9
62.5°	5.2	5.2	5.2	4.5	5.2
65°	4.5	4.5	4.5	3.7	4.5
67.5°	3.7	3.7	3.0	3.7	3.7
70°	3.0	3.0	3.0	3.0	3.0
72.5°	2.2	2.2	2.2	2.2	2.2
75°	2.2	2.2	2.2	2.2	2.2
77.5°	1.5	1.5	1.5	1.5	1.5
80°	1.5	1.5	1.5	1.5	1.5
82.5°	0.7	0.7	0.7	0.7	0.7
85°	0.7	0.7	0.7	0.7	0.7
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)