

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: P1178386

Luminaire Tested: LDA2B059030R2040D010 2LBD1LI

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1178386
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: LDA2B059030R2040D010 2LBD1LI
Description: 500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

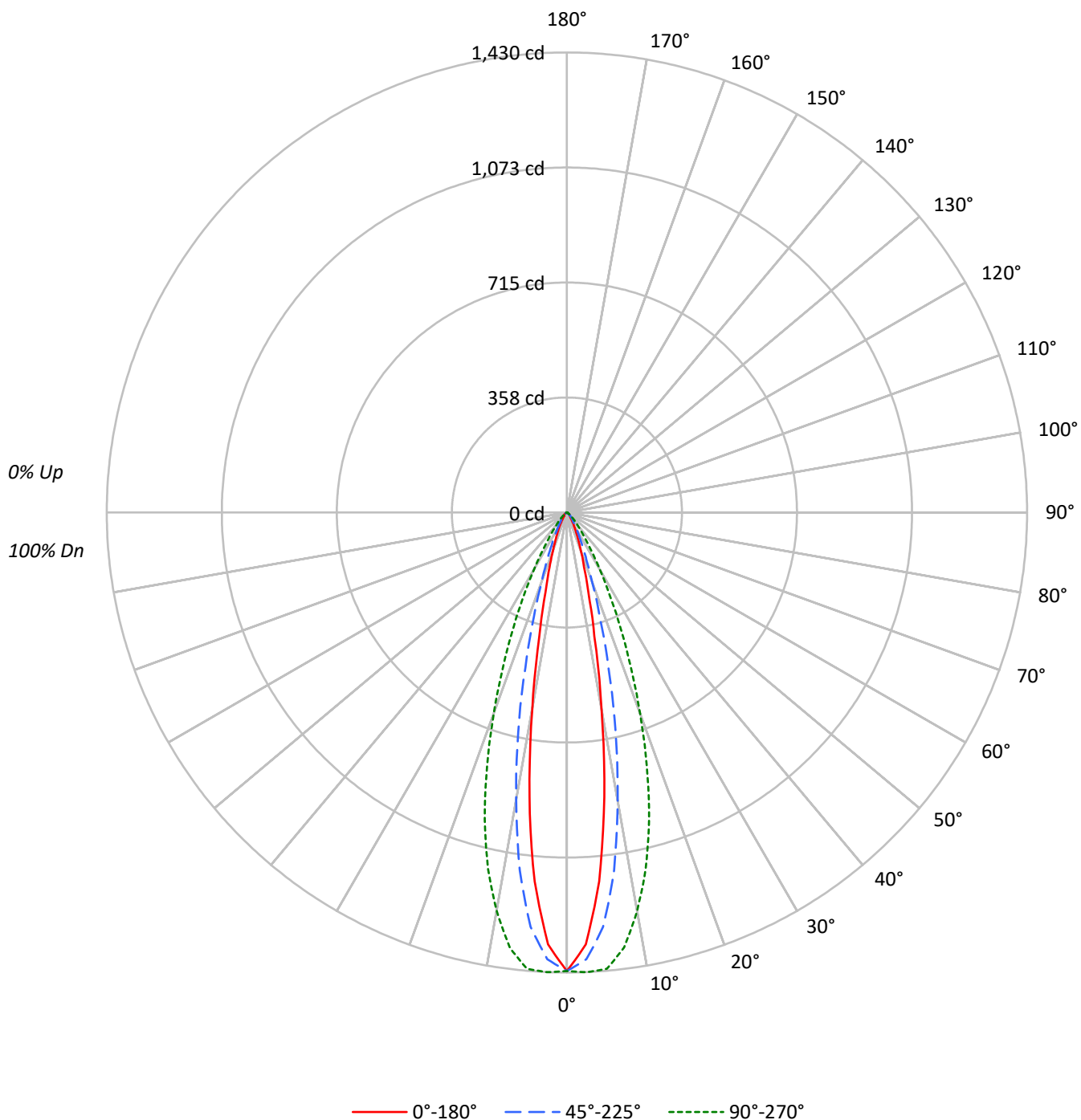
Lumens per Lamp: N/A
Luminaire Lumens: 401.7 lumens
Efficiency: N/A
Efficacy: 57.4 lumens/watt
Spacing Criteria (0/90/45): 0.31 / 0.63 / 0.43
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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: P1178386

CATALOG NUMBER: LDA2B059030R2040D010 2LBD1LI

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°	703238	703238	703238
5°	570029	640254	705082
10°	309902	454583	629622
15°	131062	255076	503973
20°	66941	119968	348459
25°	37071	61350	212411
30°	20737	34067	115817
35°	11985	20598	59024
40°	8952	15650	32653
45°	7884	10605	19327
50°	8289	6985	10285
55°	5935	4817	5591
60°	3848	3454	3454
65°	3035	3035	3035
70°	2452	2452	2452
75°	2478	2478	2478
80°	2557	2557	2557
85°	2264	2264	2264

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 19327 cd/sqm

TEST NUMBER: P1178386

CATALOG NUMBER: LDA2B059030R2040D010 2LBD1LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.1	27.6
10°-20°	157.1	39.1
20°-30°	80.9	20.1
30°-40°	29.8	7.4
40°-50°	13.1	3.3
50°-60°	5.7	1.4
60°-70°	2.5	0.6
70°-80°	1.3	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°	349.0	86.9
0°-40°	378.8	94.3
0°-60°	397.6	99.0
0°-90°	401.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	401.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1425	1425	1425	1425	1425	
5°	1151	1190	1293	1384	1424	93
15°	257	298	499	833	987	78
25°	68	76	113	259	390	33
35°	20	23	34	60	98	14
45°	11	13	15	18	28	9
55°	7	6	6	6	6	6
65°	3	3	3	2	3	3
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°	1425.4	1425.4	1425.4	1425.4	1425.4
2.5°	1343.9	1360.0	1389.9	1418.5	1430.2
5°	1151.0	1190.0	1292.8	1384.3	1423.7
7.5°	891.3	955.5	1122.0	1293.2	1363.5
10°	618.6	683.7	907.4	1153.6	1256.8
12.5°	394.5	457.8	699.3	998.9	1132.8
15°	256.6	298.3	499.4	833.2	986.7
17.5°	178.2	207.7	339.9	657.7	825.0
20°	127.5	148.3	228.5	501.6	663.7
22.5°	92.3	106.6	158.7	366.3	515.9
25°	68.1	76.3	112.7	258.8	390.2
27.5°	50.3	55.5	81.5	178.6	285.3
30°	36.4	40.8	59.8	122.7	203.3
32.5°	26.4	30.3	44.7	85.0	141.8
35°	19.9	23.0	34.2	59.8	98.0
37.5°	16.5	18.2	28.2	43.4	69.4
40°	13.9	15.6	24.3	32.1	50.7
42.5°	12.1	14.3	19.9	23.8	38.2
45°	11.3	13.0	15.2	18.2	27.7
47.5°	11.3	10.8	11.7	13.9	19.5
50°	10.8	9.1	9.1	10.8	13.4
52.5°	9.1	7.4	7.4	7.8	9.1
55°	6.9	6.1	5.6	6.1	6.5
57.5°	5.2	5.2	4.8	4.3	4.8
60°	3.9	3.9	3.5	3.5	3.5
62.5°	3.0	3.0	3.0	2.6	3.0
65°	2.6	2.6	2.6	2.2	2.6
67.5°	2.2	2.2	1.7	2.2	2.2
70°	1.7	1.7	1.7	1.7	1.7
72.5°	1.3	1.3	1.3	1.3	1.3
75°	1.3	1.3	1.3	1.3	1.3
77.5°	0.9	0.9	0.9	0.9	0.9
80°	0.9	0.9	0.9	0.9	0.9
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)