

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: P1178480

Luminaire Tested: LDA2B059040R2050D010 2LBD1MW

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1178480
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2206-683-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/17/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDA2B059040R2050D010 2LBD1MW
Description: 500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

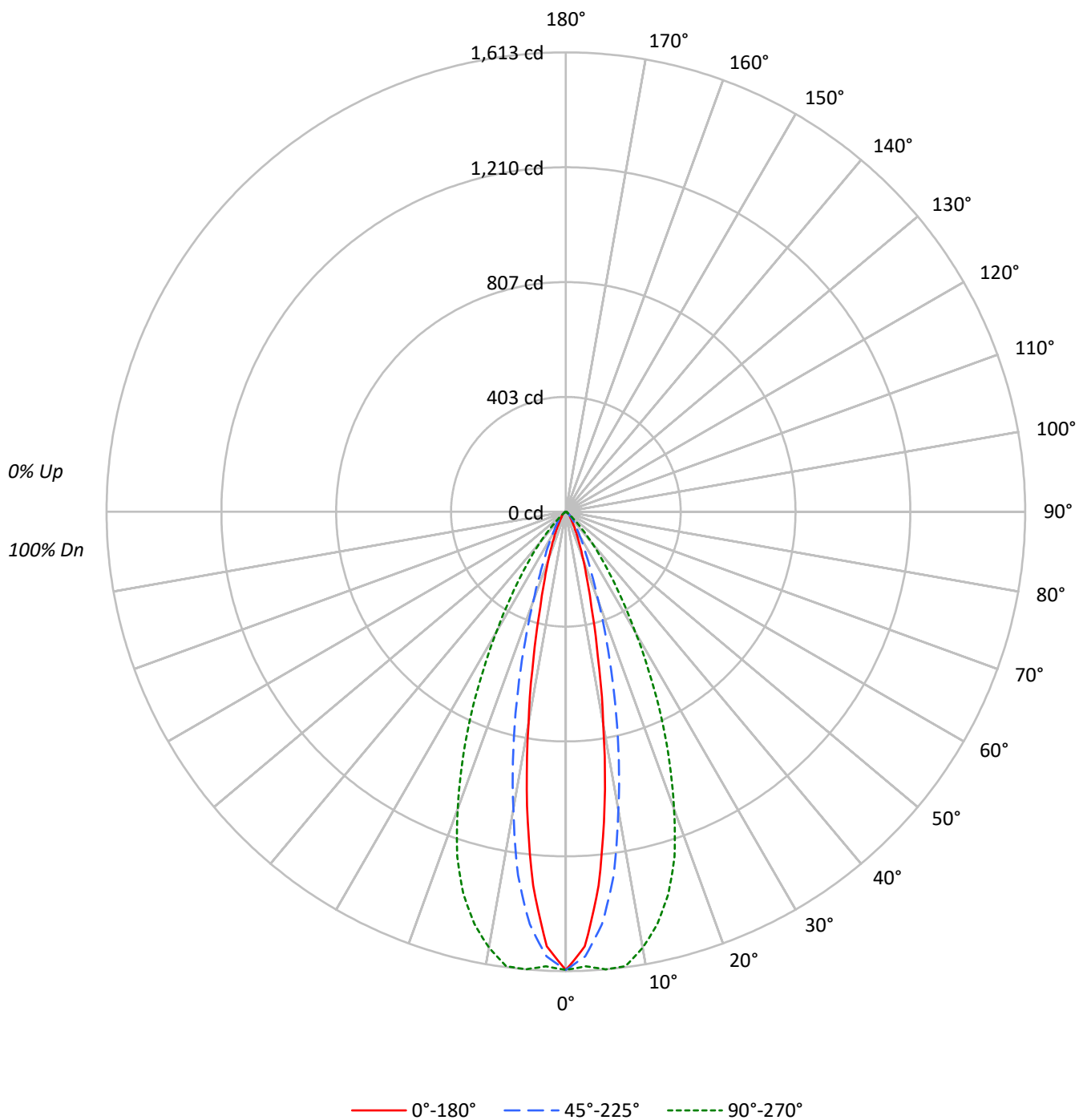
Lumens per Lamp: N/A
Luminaire Lumens: 578.2 lumens
Efficiency: N/A
Efficacy: 82.6 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.8 / 0.47
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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: P1178480

CATALOG NUMBER: LDA2B059040R2050D010 2LBD1MW

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	109	107	112	109	107	106	105	104	102		102	100	99		98
2	109	105	101	98	107	103	100	97	100	97	95		97	95	93		94
3	105	99	95	91	103	98	94	90	95	92	89		93	90	88		90
4	100	94	89	85	99	93	88	85	91	87	84		89	85	83		87
5	96	89	84	80	95	88	83	80	86	82	79		85	81	78		83
6	92	85	80	76	91	84	79	76	83	78	75		81	77	75		80
7	89	81	76	72	88	80	75	72	79	75	71		78	74	71		77
8	85	77	72	69	84	77	72	69	76	71	68		75	71	68		74
9	82	74	69	66	81	74	69	66	73	68	65		72	68	65		71
10	79	71	66	63	79	71	66	63	70	66	63		69	65	62		69

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	793671	793671	793671
5°	652487	719940	798684
10°	378735	531983	778662
15°	176470	331334	709607
20°	92982	174676	583250
25°	51497	94556	430211
30°	30193	55430	278234
35°	19394	37161	164845
40°	15135	25053	91582
45°	13117	15001	40747
50°	11820	10285	14967
55°	8085	7483	6967
60°	5920	5328	5328
65°	4670	3969	4670
70°	3895	3895	3895
75°	3812	3812	3812
80°	3694	3694	3694
85°	3962	3962	3962

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 40747 cd/sqm

TEST NUMBER: P1178480

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.1	22.2
10°-20°	209.7	36.3
20°-30°	139.9	24.2
30°-40°	63.1	10.9
40°-50°	23.1	4.0
50°-60°	8.1	1.4
60°-70°	3.8	0.7
70°-80°	2.0	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°	477.7	82.6
0°-40°	540.8	93.5
0°-60°	571.9	98.9
0°-90°	578.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	578.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1609	1609	1609	1609	1609	
5°	1318	1358	1454	1560	1613	108
15°	346	406	649	1096	1389	103
25°	95	110	174	474	790	46
35°	32	36	62	134	274	21
45°	19	19	22	34	58	15
55°	9	9	9	7	8	9
65°	4	4	3	3	4	4
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°	1608.7	1608.7	1608.7	1608.7	1608.7
2.5°	1527.5	1543.6	1562.4	1581.8	1597.3
5°	1317.5	1358.5	1453.7	1559.7	1612.7
7.5°	1041.8	1102.2	1287.3	1496.7	1608.7
10°	756.0	833.2	1061.9	1387.3	1554.3
12.5°	519.9	592.4	852.0	1249.1	1482.6
15°	345.5	405.9	648.7	1096.2	1389.3
17.5°	243.5	284.4	471.6	929.1	1269.2
20°	177.1	204.6	332.7	765.4	1110.9
22.5°	128.8	149.6	236.8	611.8	950.6
25°	94.6	110.0	173.7	473.6	790.3
27.5°	70.4	82.5	130.1	359.6	629.9
30°	53.0	63.1	97.3	265.0	488.4
32.5°	40.9	47.6	74.5	189.2	369.6
35°	32.2	36.2	61.7	133.5	273.7
37.5°	26.8	29.5	51.0	93.2	200.6
40°	23.5	25.5	38.9	66.4	142.2
42.5°	20.8	22.1	28.2	47.6	92.6
45°	18.8	18.8	21.5	33.5	58.4
47.5°	17.4	15.4	16.8	23.5	34.2
50°	15.4	12.7	13.4	16.1	19.5
52.5°	12.1	10.7	10.7	10.7	11.4
55°	9.4	8.7	8.7	7.4	8.1
57.5°	7.4	7.4	6.7	6.0	6.7
60°	6.0	6.0	5.4	4.7	5.4
62.5°	4.7	4.7	4.0	4.0	4.7
65°	4.0	4.0	3.4	3.4	4.0
67.5°	3.4	3.4	3.4	2.7	3.4
70°	2.7	2.7	2.7	2.7	2.7
72.5°	2.0	2.0	2.7	2.0	2.0
75°	2.0	2.0	2.0	2.0	2.0
77.5°	1.3	1.3	1.3	1.3	1.3
80°	1.3	1.3	1.3	1.3	1.3
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)