

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: P1178350

Luminaire Tested: LDA2B059027R2040D010 2LBD1MW

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1178350
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: LDA2B059027R2040D010 2LBD1MW
Description: 500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 2700K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

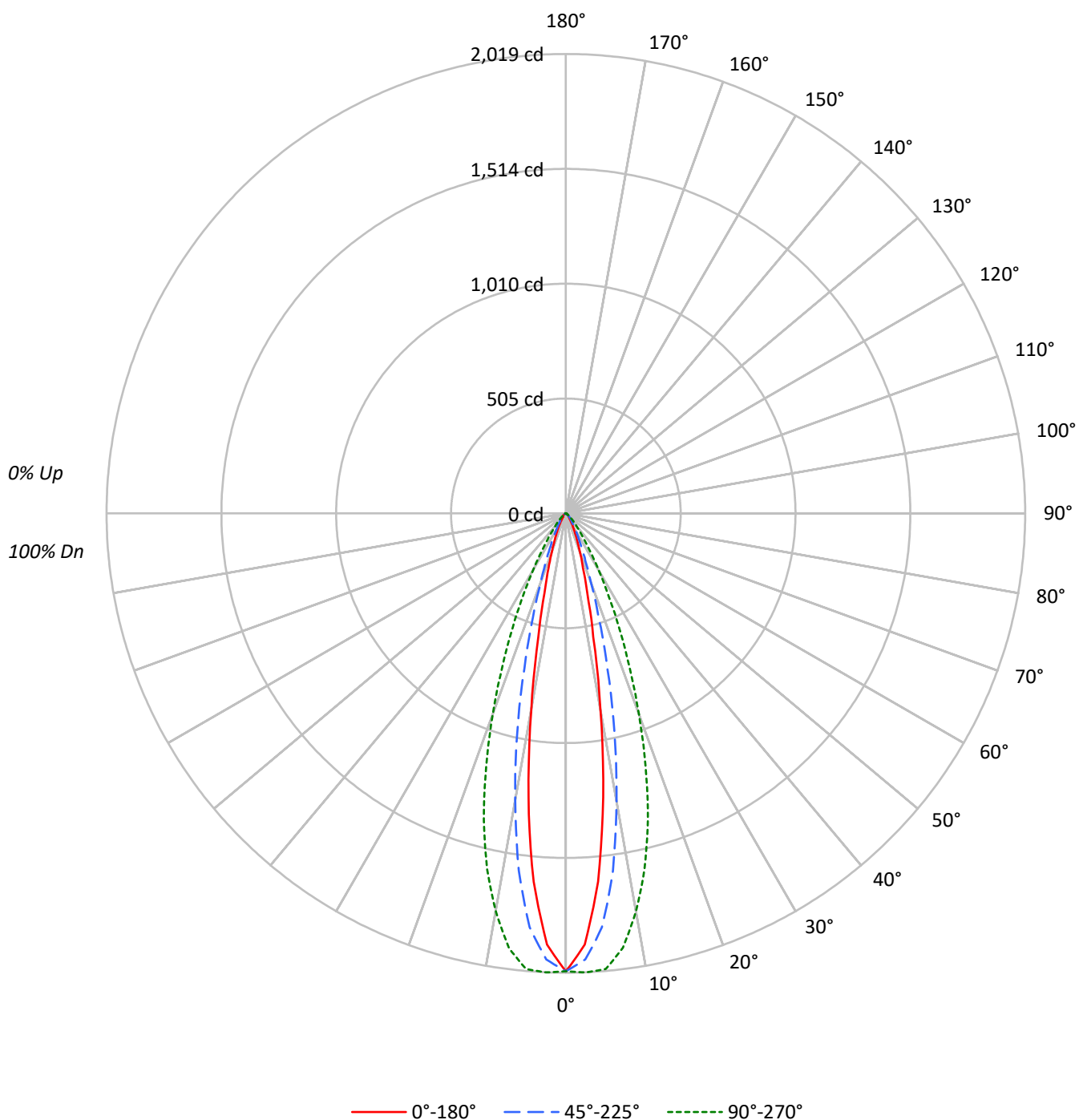
Lumens per Lamp: N/A
Luminaire Lumens: 567.2 lumens
Efficiency: N/A
Efficacy: 81.0 lumens/watt
Spacing Criteria (0/90/45): 0.31 / 0.63 / 0.43
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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: P1178350

CATALOG NUMBER: LDA2B059027R2040D010 2LBD1MW

Luminous Intensity Polar Plot



TEST NUMBER: P1178350

CATALOG NUMBER: LDA2B059027R2040D010 2LBD1MW

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	100	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	96	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	95	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°	992989	992989	992989
5°	804874	904023	995544
10°	437600	641846	889026
15°	185101	360192	711599
20°	94504	169373	492053
25°	52313	86663	299890
30°	29282	48138	163557
35°	16984	29151	83296
40°	12623	22091	46113
45°	11094	14931	27351
50°	11743	9901	14583
55°	8429	6881	7913
60°	5427	4835	4835
65°	4319	4319	4319
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: 27351 cd/sqm

TEST NUMBER: P1178350

CATALOG NUMBER: LDA2B059027R2040D010 2LBD1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.8	27.6
10°-20°	221.8	39.1
20°-30°	114.2	20.1
30°-40°	42.0	7.4
40°-50°	18.5	3.3
50°-60°	8.1	1.4
60°-70°	3.6	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°	492.8	86.9
0°-40°	534.9	94.3
0°-60°	561.4	99.0
0°-90°	567.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	567.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2013	2013	2013	2013	2013	
5°	1625	1680	1825	1954	2010	131
15°	362	421	705	1176	1393	111
25°	96	108	159	365	551	46
35°	28	32	48	84	138	19
45°	16	18	21	26	39	13
55°	10	9	8	9	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	

TEST NUMBER: P1178350

CATALOG NUMBER: LDA2B059027R2040D010 2LBD1MW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2012.7	2012.7	2012.7	2012.7	2012.7
2.5°	1897.6	1920.2	1962.5	2002.9	2019.4
5°	1625.2	1680.3	1825.4	1954.5	2010.2
7.5°	1258.5	1349.1	1584.2	1826.0	1925.1
10°	873.5	965.3	1281.2	1628.9	1774.6
12.5°	557.0	646.4	987.4	1410.3	1599.5
15°	362.4	421.1	705.2	1176.5	1393.2
17.5°	251.6	293.2	479.9	928.6	1164.9
20°	180.0	209.3	322.6	708.2	937.2
22.5°	130.4	150.6	224.0	517.2	728.4
25°	96.1	107.7	159.2	365.4	550.9
27.5°	71.0	78.4	115.1	252.2	402.8
30°	51.4	57.5	84.5	173.2	287.1
32.5°	37.3	42.8	63.0	120.0	200.2
35°	28.2	32.4	48.4	84.5	138.3
37.5°	23.3	25.7	39.8	61.2	97.9
40°	19.6	22.0	34.3	45.3	71.6
42.5°	17.1	20.2	28.2	33.7	53.9
45°	15.9	18.4	21.4	25.7	39.2
47.5°	15.9	15.3	16.5	19.6	27.5
50°	15.3	12.9	12.9	15.3	19.0
52.5°	12.9	10.4	10.4	11.0	12.9
55°	9.8	8.6	8.0	8.6	9.2
57.5°	7.3	7.3	6.7	6.1	6.7
60°	5.5	5.5	4.9	4.9	4.9
62.5°	4.3	4.3	4.3	3.7	4.3
65°	3.7	3.7	3.7	3.1	3.7
67.5°	3.1	3.1	2.4	3.1	3.1
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)