

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: P1178445

Luminaire Tested: LDA2B059035R2050D010 2LBDC1MB

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1178445
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: LDA2B059035R2050D010 2LBDC1MB
Description: 500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

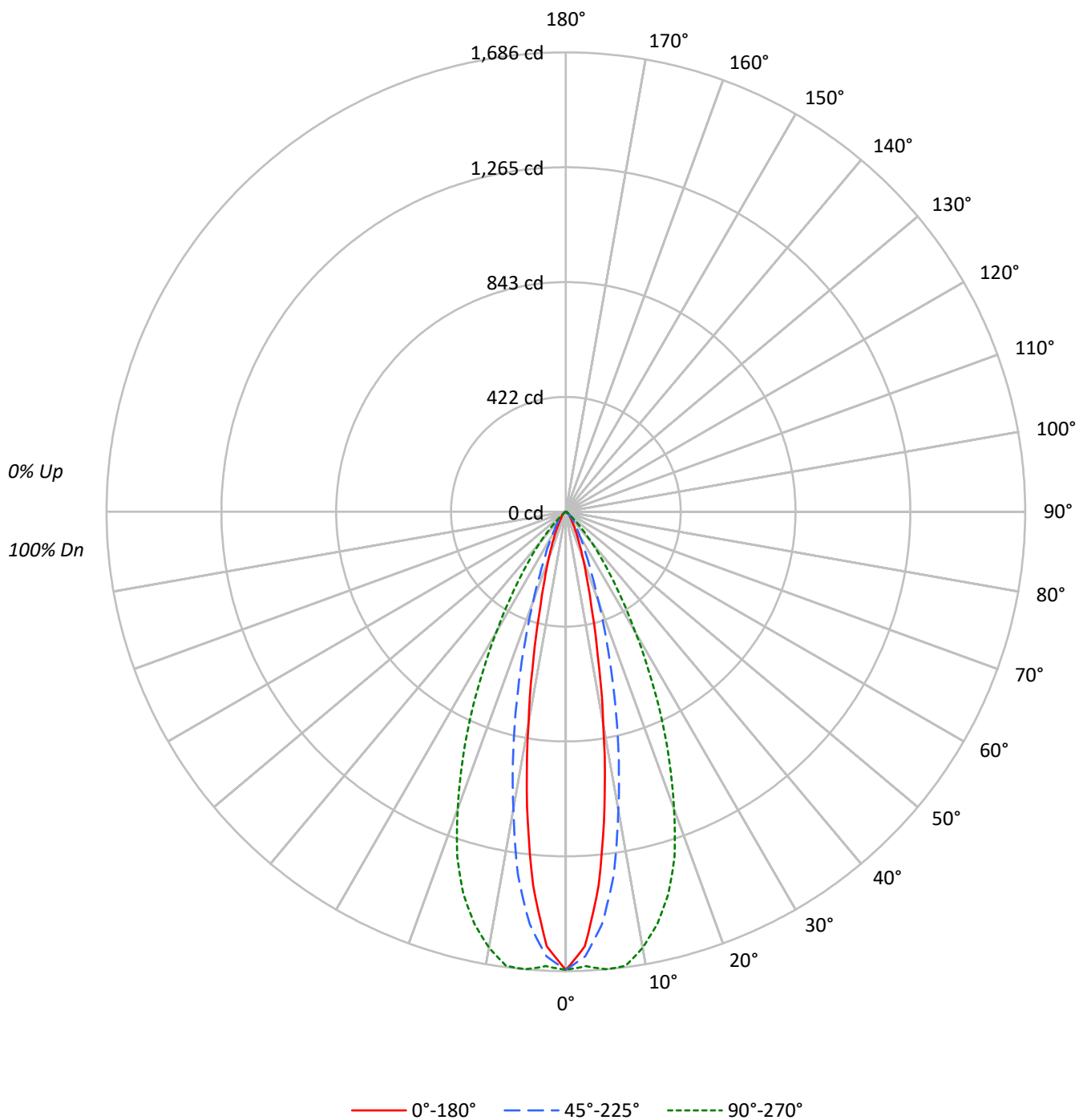
Lumens per Lamp: N/A
Luminaire Lumens: 604.3 lumens
Efficiency: N/A
Efficacy: 86.3 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.8 / 0.47
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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: P1178445

CATALOG NUMBER: LDA2B059035R2050D010 2LBDC1MB

Luminous Intensity Polar Plot



TEST NUMBER: P1178445

CATALOG NUMBER: LDA2B059035R2050D010 2LBDC1MB

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°	829489	829489	829489
5°	681954	752477	834738
10°	395869	556030	813830
15°	184437	346299	741683
20°	97182	182604	609606
25°	53838	98857	449591
30°	31561	57937	290767
35°	20297	38847	172313
40°	15779	26212	95704
45°	13675	15629	42561
50°	12357	10745	15581
55°	8429	7827	7225
60°	6216	5526	5526
65°	4903	4086	4903
70°	4039	4039	4039
75°	4003	4003	4003
80°	3978	3978	3978
85°	3962	3962	3962

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 42561 cd/sqm

TEST NUMBER: P1178445

CATALOG NUMBER: LDA2B059035R2050D010 2LBDC1MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.9	22.2
10°-20°	219.2	36.3
20°-30°	146.2	24.2
30°-40°	65.9	10.9
40°-50°	24.1	4.0
50°-60°	8.4	1.4
60°-70°	3.9	0.7
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°	499.3	82.6
0°-40°	565.2	93.5
0°-60°	597.7	98.9
0°-90°	604.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	604.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1681	1681	1681	1681	1681	
5°	1377	1420	1519	1630	1686	112
15°	361	424	678	1146	1452	108
25°	99	115	182	495	826	48
35°	34	38	64	140	286	22
45°	20	20	22	35	61	15
55°	10	9	9	8	8	9
65°	4	4	4	4	4	4
75°	2	2	2	2	2	2
85°	1	1	1	1	1	1
90°	0	0	0	0	0	

TEST NUMBER: P1178445

CATALOG NUMBER: LDA2B059035R2050D010 2LBDC1MB

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1681.3	1681.3	1681.3	1681.3	1681.3
2.5°	1596.5	1613.3	1632.9	1653.3	1669.4
5°	1377.0	1419.8	1519.4	1630.1	1685.5
7.5°	1088.9	1152.0	1345.5	1564.2	1681.3
10°	790.2	870.8	1109.9	1450.0	1624.5
12.5°	543.4	619.1	890.4	1305.5	1549.5
15°	361.1	424.2	678.0	1145.7	1452.1
17.5°	254.5	297.3	492.9	971.1	1326.6
20°	185.1	213.8	347.8	800.0	1161.1
22.5°	134.6	156.4	247.5	639.4	993.5
25°	98.9	115.0	181.6	495.0	825.9
27.5°	73.6	86.2	136.0	375.8	658.4
30°	55.4	65.9	101.7	276.9	510.4
32.5°	42.8	49.8	77.8	197.7	386.3
35°	33.7	37.9	64.5	139.5	286.1
37.5°	28.0	30.9	53.3	97.5	209.6
40°	24.5	26.6	40.7	69.4	148.6
42.5°	21.7	23.1	29.4	49.8	96.8
45°	19.6	19.6	22.4	35.1	61.0
47.5°	18.2	16.1	17.5	24.5	35.8
50°	16.1	13.3	14.0	16.8	20.3
52.5°	12.6	11.2	11.2	11.2	11.9
55°	9.8	9.1	9.1	7.7	8.4
57.5°	7.7	7.7	7.0	6.3	7.0
60°	6.3	6.3	5.6	4.9	5.6
62.5°	4.9	4.9	4.2	4.2	4.9
65°	4.2	4.2	3.5	3.5	4.2
67.5°	3.5	3.5	3.5	2.8	3.5
70°	2.8	2.8	2.8	2.8	2.8
72.5°	2.1	2.1	2.8	2.1	2.1
75°	2.1	2.1	2.1	2.1	2.1
77.5°	1.4	1.4	1.4	1.4	1.4
80°	1.4	1.4	1.4	1.4	1.4
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)