

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: P1178432

Luminaire Tested: LDA2B059035R2040D010 2LBDC1MB

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1178432
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: LDA2B059035R2040D010 2LBDC1MB
Description: 500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

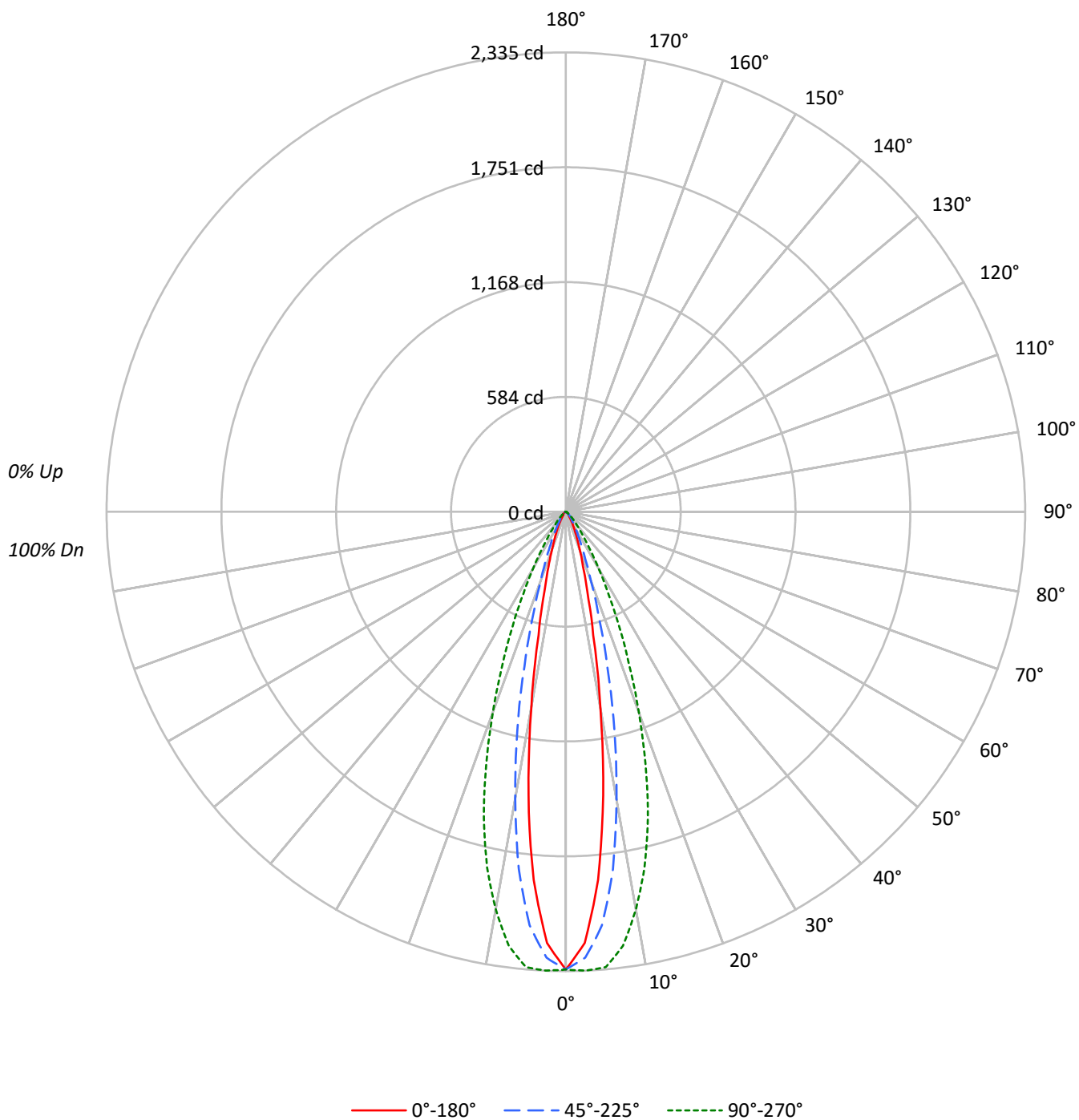
Lumens per Lamp: N/A
Luminaire Lumens: 655.8 lumens
Efficiency: N/A
Efficacy: 93.7 lumens/watt
Spacing Criteria (0/90/45): 0.31 / 0.63 / 0.43
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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: P1178432

CATALOG NUMBER: LDA2B059035R2040D010 2LBDC1MB

Luminous Intensity Polar Plot



TEST NUMBER: P1178432

CATALOG NUMBER: LDA2B059035R2040D010 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	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°	1147954	1147954	1147954
5°	930518	1045118	1150953
10°	505932	742041	1027745
15°	213960	416376	822690
20°	109258	195782	568812
25°	60479	100163	346706
30°	33839	55658	189078
35°	19634	33668	96305
40°	14555	25504	53326
45°	12838	17303	31607
50°	13585	11436	16809
55°	9720	7913	9118
60°	6315	5624	5624
65°	4903	4903	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: 31607 cd/sqm

TEST NUMBER: P1178432

CATALOG NUMBER: LDA2B059035R2040D010 2LBDC1MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.3	27.6
10°-20°	256.4	39.1
20°-30°	132.1	20.1
30°-40°	48.6	7.4
40°-50°	21.4	3.3
50°-60°	9.4	1.4
60°-70°	4.1	0.6
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°	569.8	86.9
0°-40°	618.4	94.3
0°-60°	649.1	99.0
0°-90°	655.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	655.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2327	2327	2327	2327	2327	
5°	1879	1943	2110	2260	2324	151
15°	419	487	815	1360	1611	128
25°	111	125	184	422	637	53
35°	33	38	56	98	160	22
45°	18	21	25	30	45	15
55°	11	10	9	10	11	10
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: P1178432

CATALOG NUMBER: LDA2B059035R2040D010 2LBDC1MB

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2326.8	2326.8	2326.8	2326.8	2326.8
2.5°	2193.8	2220.0	2268.8	2315.5	2334.6
5°	1878.9	1942.6	2110.3	2259.6	2324.0
7.5°	1455.0	1559.7	1831.5	2111.0	2225.6
10°	1009.9	1116.0	1481.2	1883.1	2051.5
12.5°	644.0	747.3	1141.5	1630.5	1849.2
15°	418.9	486.9	815.2	1360.1	1610.7
17.5°	290.9	339.0	554.8	1073.5	1346.7
20°	208.1	242.0	372.9	818.8	1083.4
22.5°	150.7	174.1	259.0	598.0	842.1
25°	111.1	124.6	184.0	422.5	636.9
27.5°	82.1	90.6	133.0	291.6	465.6
30°	59.4	66.5	97.7	200.3	331.9
32.5°	43.2	49.5	72.9	138.7	231.4
35°	32.6	37.5	55.9	97.7	159.9
37.5°	26.9	29.7	46.0	70.8	113.2
40°	22.6	25.5	39.6	52.4	82.8
42.5°	19.8	23.4	32.6	38.9	62.3
45°	18.4	21.2	24.8	29.7	45.3
47.5°	18.4	17.7	19.1	22.6	31.8
50°	17.7	14.9	14.9	17.7	21.9
52.5°	14.9	12.0	12.0	12.7	14.9
55°	11.3	9.9	9.2	9.9	10.6
57.5°	8.5	8.5	7.8	7.1	7.8
60°	6.4	6.4	5.7	5.7	5.7
62.5°	5.0	5.0	5.0	4.2	5.0
65°	4.2	4.2	4.2	3.5	4.2
67.5°	3.5	3.5	2.8	3.5	3.5
70°	2.8	2.8	2.8	2.8	2.8
72.5°	2.1	2.1	2.1	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)