

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: P1179362

Luminaire Tested: LDA2B159027R2040D010 2LBDC1MB

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1179362
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: LDA2B159027R2040D010 2LBDC1MB
Description: 1500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 2700K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

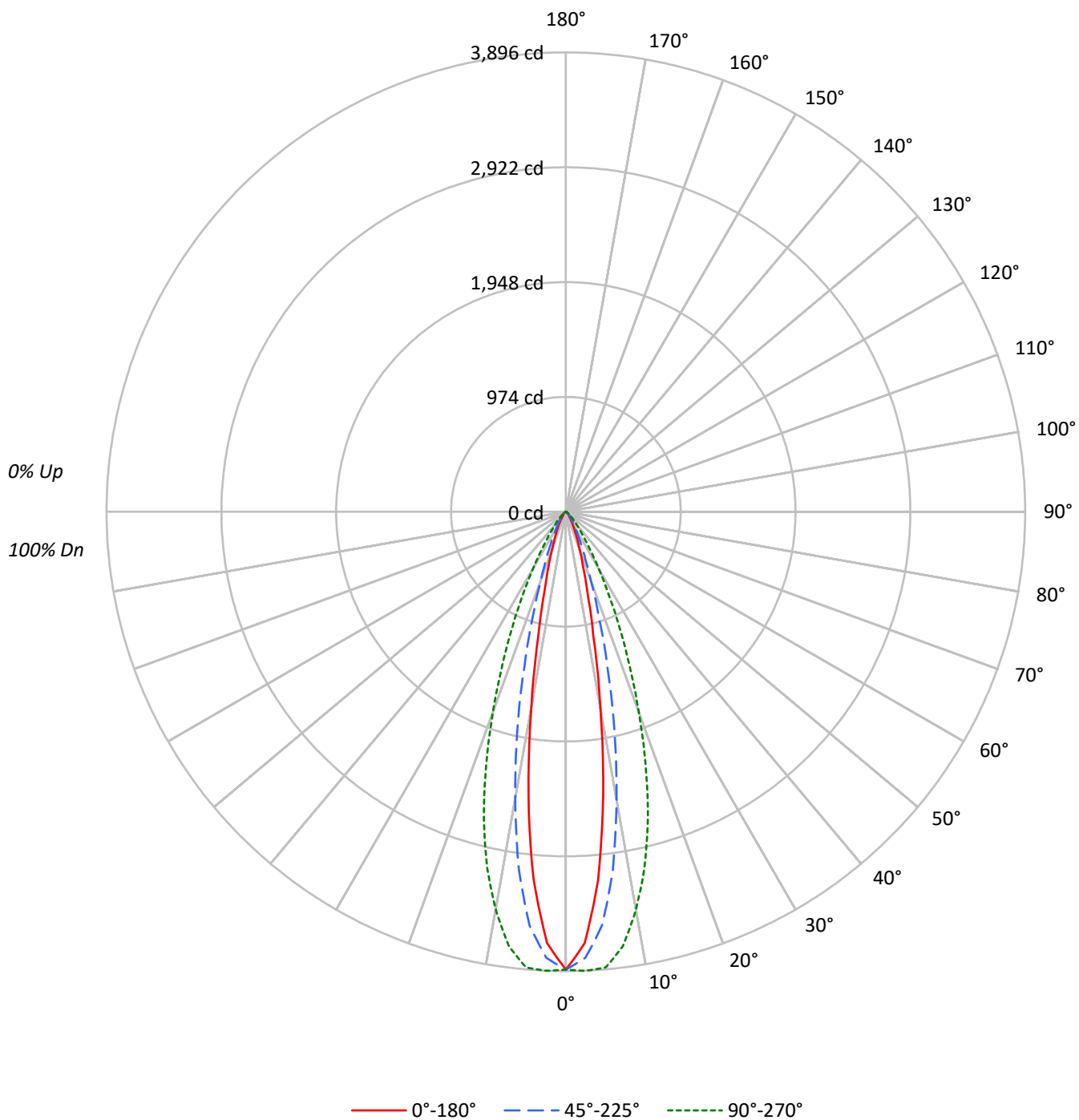
Lumens per Lamp: N/A
Luminaire Lumens: 1094.5 lumens
Efficiency: N/A
Efficacy: 77.6 lumens/watt
Spacing Criteria (0/90/45): 0.31 / 0.63 / 0.43
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 14.1
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: P1179362

CATALOG NUMBER: LDA2B159027R2040D010 2LBDC1MB

Luminous Intensity Polar Plot



TEST NUMBER: P1179362

CATALOG NUMBER: LDA2B159027R2040D010 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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	99	99
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95	94	93
2	110	106	102	99	108	104	101	98	101	98	96	98	96	94	95	94	92	91	90	89
3	106	100	96	93	104	99	95	92	96	93	91	94	92	89	92	90	88	87	86	85
4	102	95	91	88	100	94	90	87	92	89	86	90	87	85	89	86	84	83	82	81
5	98	91	86	83	97	90	86	83	89	85	82	87	84	81	86	83	81	79	78	77
6	94	87	83	79	93	87	82	79	85	81	78	84	80	78	83	80	77	76	75	74
7	91	84	79	76	90	83	79	75	82	78	75	81	77	75	80	77	74	73	72	71
8	88	81	76	73	87	80	76	72	79	75	72	78	75	72	77	74	72	70	69	68
9	85	78	73	70	84	77	73	70	76	72	70	76	72	69	75	72	69	68	67	66
10	83	75	70	67	82	75	70	67	74	70	67	73	70	67	73	69	67	66	65	64

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1915921	1915921	1915921
5°	1552994	1744258	1920912
10°	844339	1238404	1715330
15°	357127	694948	1373040
20°	182289	326775	949402
25°	100925	167174	578659
30°	56513	92859	315549
35°	32704	56193	160749
40°	24345	42571	89006
45°	21420	28816	52748
50°	22642	19035	28092
55°	16257	13246	15225
60°	10459	9275	9275
65°	8288	8288	8288
70°	6780	6780	6780
75°	6672	6672	6672
80°	6819	6819	6819
85°	6793	6793	6793

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 52748 cd/sqm

TEST NUMBER: P1179362

CATALOG NUMBER: LDA2B159027R2040D010 2LBDC1MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	302.6	27.6
10°-20°	427.9	39.1
20°-30°	220.4	20.1
30°-40°	81.1	7.4
40°-50°	35.6	3.3
50°-60°	15.6	1.4
60°-70°	6.8	0.6
70°-80°	3.4	0.3
80°-90°	1.0	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°	950.9	86.9
0°-40°	1032.0	94.3
0°-60°	1083.3	99.0
0°-90°	1094.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1094.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3883	3883	3883	3883	3883	
5°	3136	3242	3522	3771	3879	252
15°	699	813	1361	2270	2688	214
25°	185	208	307	705	1063	89
35°	54	63	93	163	267	37
45°	31	35	41	50	76	25
55°	19	16	15	16	18	17
65°	7	7	7	6	7	7
75°	4	4	4	4	4	3
85°	1	1	1	1	1	1
90°	0	0	0	0	0	

TEST NUMBER: P1179362

CATALOG NUMBER: LDA2B159027R2040D010 2LBDC1MB

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3883.4	3883.4	3883.4	3883.4	3883.4
2.5°	3661.4	3705.1	3786.6	3864.5	3896.4
5°	3135.8	3242.1	3522.0	3771.2	3878.7
7.5°	2428.3	2603.1	3056.7	3523.2	3714.5
10°	1685.4	1862.6	2472.0	3142.9	3424.0
12.5°	1074.8	1247.2	1905.1	2721.2	3086.2
15°	699.2	812.6	1360.6	2270.1	2688.2
17.5°	485.4	565.7	926.0	1791.7	2247.6
20°	347.2	403.9	622.4	1366.5	1808.3
22.5°	251.6	290.5	432.3	998.0	1405.5
25°	185.4	207.9	307.1	705.1	1063.0
27.5°	137.0	151.2	222.0	486.6	777.2
30°	99.2	111.0	163.0	334.2	553.9
32.5°	72.0	82.7	121.7	231.5	386.2
35°	54.3	62.6	93.3	163.0	266.9
37.5°	44.9	49.6	76.8	118.1	189.0
40°	37.8	42.5	66.1	87.4	138.2
42.5°	33.1	39.0	54.3	65.0	103.9
45°	30.7	35.4	41.3	49.6	75.6
47.5°	30.7	29.5	31.9	37.8	53.1
50°	29.5	24.8	24.8	29.5	36.6
52.5°	24.8	20.1	20.1	21.3	24.8
55°	18.9	16.5	15.4	16.5	17.7
57.5°	14.2	14.2	13.0	11.8	13.0
60°	10.6	10.6	9.4	9.4	9.4
62.5°	8.3	8.3	8.3	7.1	8.3
65°	7.1	7.1	7.1	5.9	7.1
67.5°	5.9	5.9	4.7	5.9	5.9
70°	4.7	4.7	4.7	4.7	4.7
72.5°	3.5	3.5	3.5	3.5	3.5
75°	3.5	3.5	3.5	3.5	3.5
77.5°	2.4	2.4	2.4	2.4	2.4
80°	2.4	2.4	2.4	2.4	2.4
82.5°	1.2	1.2	1.2	1.2	1.2
85°	1.2	1.2	1.2	1.2	1.2
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)