

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: P1179354

Luminaire Tested: LDA2B159027R2040D010 2LBD1H

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1179354
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 2LBD1H
Description: 1500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 2700K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

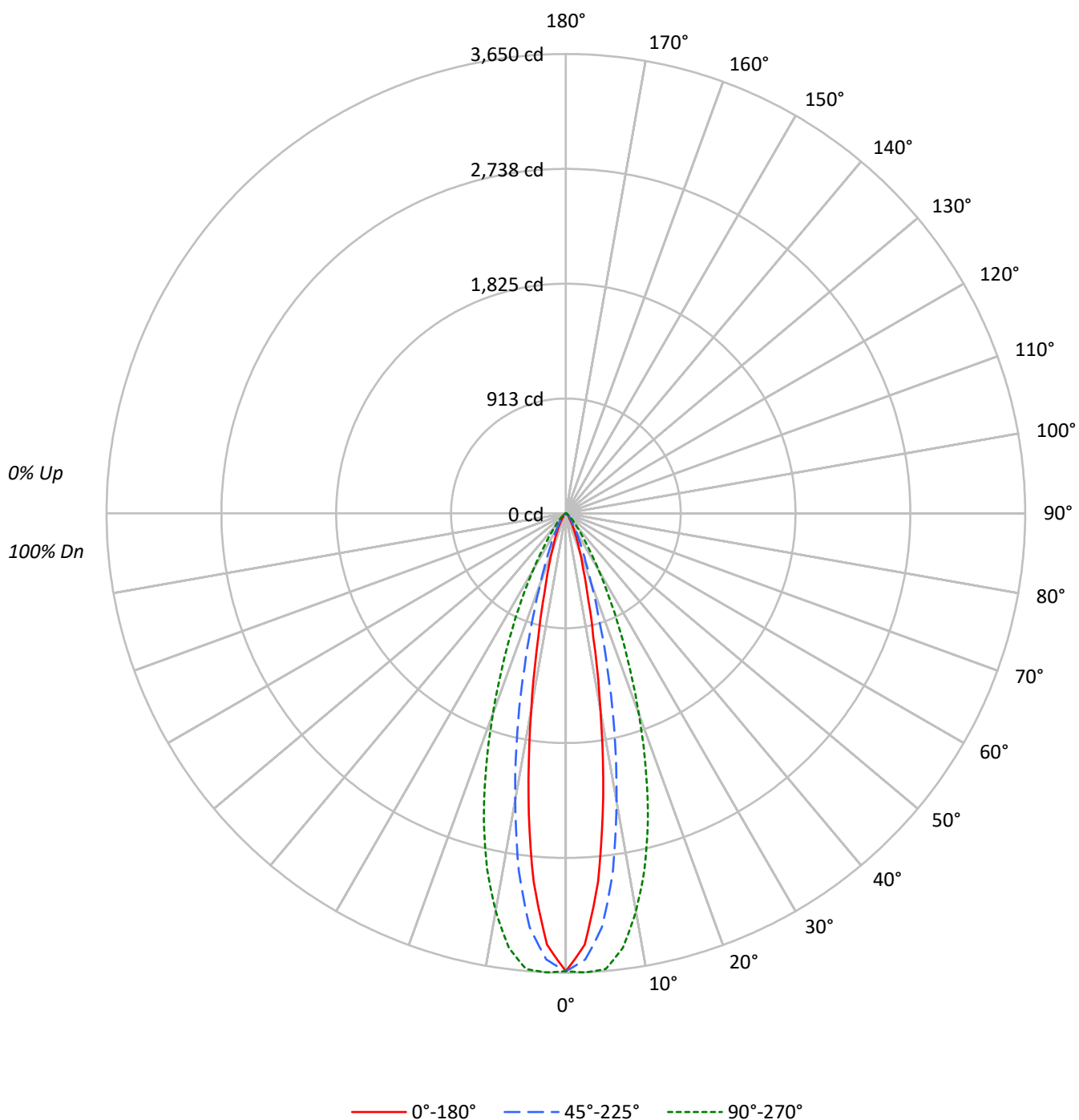
Lumens per Lamp: N/A
Luminaire Lumens: 1025.4 lumens
Efficiency: N/A
Efficacy: 72.7 lumens/watt
Spacing Criteria (0/90/45): 0.31 / 0.63 / 0.43
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P1179354

CATALOG NUMBER: LDA2B159027R2040D010 2LBD1H

Luminous Intensity Polar Plot



TEST NUMBER: P1179354

CATALOG NUMBER: LDA2B159027R2040D010 2LBD1H

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	102	102	100
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	97	97	95
2	110	106	102	99	108	104	101	98	101	98	96	98	96	94	95	94	92	92	92	91
3	106	100	96	93	104	99	95	92	96	93	91	94	92	89	92	90	88	88	88	87
4	102	96	91	88	100	94	90	87	92	89	86	90	87	85	89	86	84	84	84	83
5	98	91	86	83	97	90	86	83	89	85	82	87	84	81	86	83	81	81	81	79
6	95	87	83	79	93	87	82	79	85	81	78	84	80	78	83	80	77	77	77	76
7	91	84	79	76	90	83	79	75	82	78	75	81	77	75	80	77	74	74	74	73
8	88	81	76	73	87	80	76	72	79	75	72	78	75	72	77	74	72	72	72	70
9	85	78	73	70	84	77	73	70	76	72	70	76	72	69	75	72	69	69	69	68
10	83	75	70	67	82	75	70	67	74	70	67	73	70	67	73	69	67	67	67	66

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1794998	1794998	1794998
5°	1454984	1634164	1799676
10°	791036	1160253	1607020
15°	334603	651073	1286363
20°	170791	306142	889444
25°	94556	156614	542133
30°	52924	86991	295667
35°	30656	52640	150631
40°	22799	39930	83403
45°	20094	27002	49399
50°	21261	17807	26326
55°	15225	12386	14278
60°	9867	8782	8782
65°	7705	7705	7705
70°	6347	6347	6347
75°	6290	6290	6290
80°	6251	6251	6251
85°	6227	6227	6227

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 49399 cd/sqm

TEST NUMBER: P1179354

CATALOG NUMBER: LDA2B159027R2040D010 2LBD1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	283.5	27.6
10°-20°	400.9	39.1
20°-30°	206.5	20.1
30°-40°	76.0	7.4
40°-50°	33.4	3.3
50°-60°	14.6	1.4
60°-70°	6.4	0.6
70°-80°	3.2	0.3
80°-90°	0.9	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°	890.9	86.9
0°-40°	966.9	94.3
0°-60°	1014.9	99.0
0°-90°	1025.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1025.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3638	3638	3638	3638	3638	
5°	2938	3037	3300	3533	3634	236
15°	655	761	1275	2127	2518	200
25°	174	195	288	661	996	83
35°	51	59	87	153	250	35
45°	29	33	39	46	71	23
55°	18	16	14	16	17	16
65°	7	7	7	6	7	7
75°	3	3	3	3	3	3
85°	1	1	1	1	1	1
90°	0	0	0	0	0	

TEST NUMBER: P1179354

CATALOG NUMBER: LDA2B159027R2040D010 2LBD1H

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3638.3	3638.3	3638.3	3638.3	3638.3
2.5°	3430.3	3471.2	3547.6	3620.6	3650.5
5°	2937.9	3037.4	3299.7	3533.2	3633.9
7.5°	2275.0	2438.8	2863.7	3300.8	3480.1
10°	1579.0	1745.0	2316.0	2944.5	3207.8
12.5°	1006.9	1168.5	1784.8	2549.5	2891.4
15°	655.1	761.3	1274.7	2126.8	2518.5
17.5°	454.8	530.0	867.5	1678.6	2105.7
20°	325.3	378.4	583.1	1280.3	1694.1
22.5°	235.7	272.2	405.0	935.0	1316.8
25°	173.7	194.8	287.7	660.6	995.9
27.5°	128.4	141.6	208.0	455.9	728.1
30°	92.9	104.0	152.7	313.1	519.0
32.5°	67.5	77.5	114.0	216.9	361.8
35°	50.9	58.6	87.4	152.7	250.1
37.5°	42.0	46.5	71.9	110.7	177.0
40°	35.4	39.8	62.0	81.9	129.5
42.5°	31.0	36.5	50.9	60.9	97.4
45°	28.8	33.2	38.7	46.5	70.8
47.5°	28.8	27.7	29.9	35.4	49.8
50°	27.7	23.2	23.2	27.7	34.3
52.5°	23.2	18.8	18.8	19.9	23.2
55°	17.7	15.5	14.4	15.5	16.6
57.5°	13.3	13.3	12.2	11.1	12.2
60°	10.0	10.0	8.9	8.9	8.9
62.5°	7.7	7.7	7.7	6.6	7.7
65°	6.6	6.6	6.6	5.5	6.6
67.5°	5.5	5.5	4.4	5.5	5.5
70°	4.4	4.4	4.4	4.4	4.4
72.5°	3.3	3.3	3.3	3.3	3.3
75°	3.3	3.3	3.3	3.3	3.3
77.5°	2.2	2.2	2.2	2.2	2.2
80°	2.2	2.2	2.2	2.2	2.2
82.5°	1.1	1.1	1.1	1.1	1.1
85°	1.1	1.1	1.1	1.1	1.1
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)