

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: P1179469

Luminaire Tested: LDA2B159040R2040D010 2LBD1B

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1179469
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: LDA2B159040R2040D010 2LBD1B
Description: 1500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

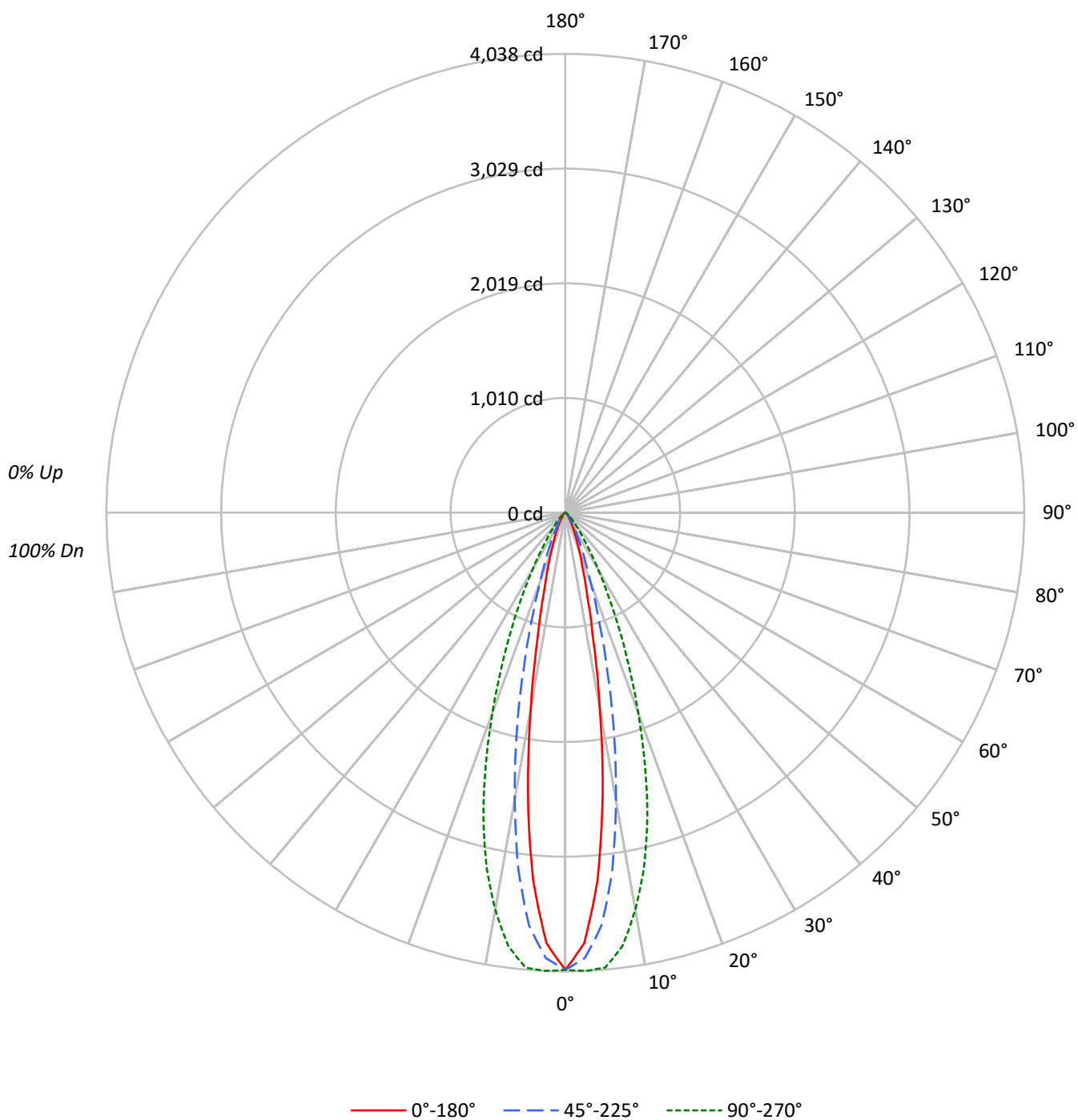
Lumens per Lamp: N/A
Luminaire Lumens: 1134.2 lumens
Efficiency: N/A
Efficacy: 80.4 lumens/watt
Spacing Criteria (0/90/45): 0.31 / 0.63 / 0.43
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20			
RC	80				70				50				30				10			0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	114	112	110	108	112	110	108	106	106	104	103		102	101	100		99	98	97	95
2	110	106	102	99	108	104	101	98	101	98	96		98	96	94		95	94	92	91
3	106	100	96	93	104	99	95	92	96	93	91		94	92	89		92	90	88	87
4	102	95	91	88	100	94	90	87	92	89	86		90	87	85		89	86	84	83
5	98	91	86	83	97	90	86	83	89	85	82		87	84	81		86	83	81	79
6	95	87	83	79	93	87	82	79	85	81	78		84	80	78		83	80	77	76
7	91	84	79	76	90	83	79	75	82	78	75		81	77	75		80	77	74	73
8	88	81	76	73	87	80	76	72	79	75	72		78	75	72		77	74	72	70
9	85	78	73	70	84	77	73	70	76	72	70		76	72	69		75	72	69	68
10	83	75	70	67	82	75	70	67	74	70	67		73	70	67		73	69	67	66

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1985535	1985535	1985535
5°	1609402	1807600	1990692
10°	874999	1283392	1777601
15°	370101	720180	1422891
20°	188956	338641	983844
25°	104627	173217	599672
30°	58564	96220	326999
35°	33909	58241	166592
40°	25246	44117	92226
45°	22187	29862	54631
50°	23487	19726	29090
55°	16859	13676	15827
60°	10854	9670	9670
65°	8522	8522	8522
70°	7068	7068	7068
75°	7053	7053	7053
80°	6819	6819	6819
85°	6793	6793	6793

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 54631 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	313.6	27.6
10°-20°	443.4	39.1
20°-30°	228.4	20.1
30°-40°	84.1	7.4
40°-50°	36.9	3.3
50°-60°	16.2	1.4
60°-70°	7.1	0.6
70°-80°	3.5	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°	985.4	86.9
0°-40°	1069.5	94.3
0°-60°	1122.6	99.0
0°-90°	1134.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1134.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4024	4024	4024	4024	4024	
5°	3250	3360	3650	3908	4020	261
15°	725	842	1410	2352	2786	221
25°	192	215	318	731	1102	92
35°	56	65	97	169	277	38
45°	32	37	43	51	78	26
55°	20	17	16	17	18	18
65°	7	7	7	6	7	7
75°	4	4	4	4	4	4
85°	1	1	1	1	1	1
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4024.5	4024.5	4024.5	4024.5	4024.5
2.5°	3794.4	3839.6	3924.1	4004.9	4037.9
5°	3249.7	3359.8	3649.9	3908.2	4019.6
7.5°	2516.5	2697.7	3167.7	3651.1	3849.4
10°	1746.6	1930.2	2561.8	3257.0	3548.3
12.5°	1113.8	1292.5	1974.3	2820.1	3198.3
15°	724.6	842.1	1410.0	2352.5	2785.8
17.5°	503.1	586.3	959.6	1856.8	2329.2
20°	359.9	418.6	645.0	1416.2	1873.9
22.5°	260.7	301.1	448.0	1034.3	1456.5
25°	192.2	215.4	318.2	730.7	1101.6
27.5°	142.0	156.7	230.1	504.3	805.4
30°	102.8	115.1	168.9	346.4	574.0
32.5°	74.7	85.7	126.1	239.9	400.2
35°	56.3	64.9	96.7	168.9	276.6
37.5°	46.5	51.4	79.6	122.4	195.8
40°	39.2	44.1	68.5	90.6	143.2
42.5°	34.3	40.4	56.3	67.3	107.7
45°	31.8	36.7	42.8	51.4	78.3
47.5°	31.8	30.6	33.0	39.2	55.1
50°	30.6	25.7	25.7	30.6	37.9
52.5°	25.7	20.8	20.8	22.0	25.7
55°	19.6	17.1	15.9	17.1	18.4
57.5°	14.7	14.7	13.5	12.2	13.5
60°	11.0	11.0	9.8	9.8	9.8
62.5°	8.6	8.6	8.6	7.3	8.6
65°	7.3	7.3	7.3	6.1	7.3
67.5°	6.1	6.1	4.9	6.1	6.1
70°	4.9	4.9	4.9	4.9	4.9
72.5°	3.7	3.7	3.7	3.7	3.7
75°	3.7	3.7	3.7	3.7	3.7
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)