

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: P1179403

Luminaire Tested: LDA2B159030R2040D010 2LBDC1MW

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1179403
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: LDA2B159030R2040D010 2LBDC1MW
Description: 1500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

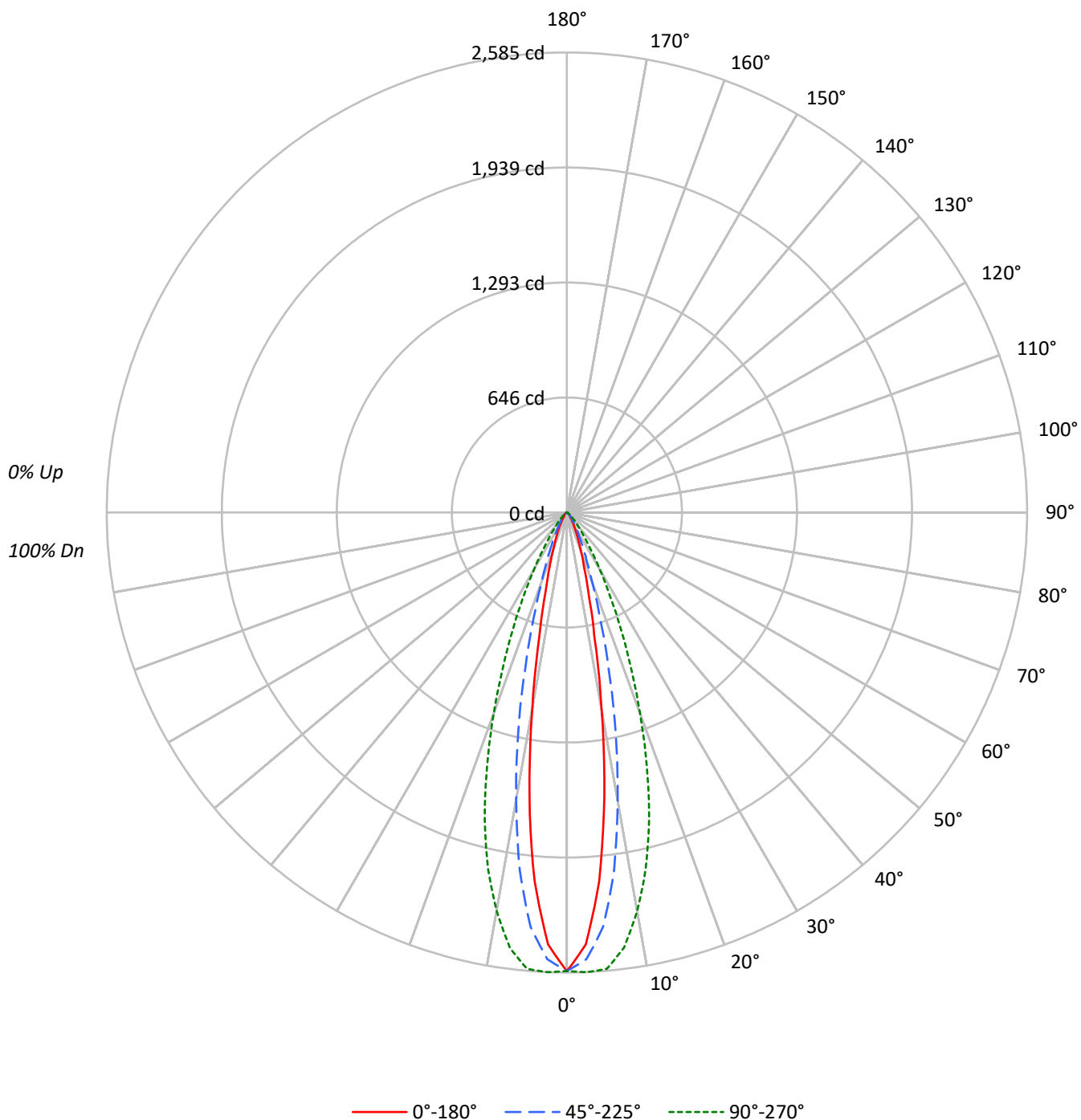
Lumens per Lamp: N/A
Luminaire Lumens: 726.3 lumens
Efficiency: N/A
Efficacy: 51.5 lumens/watt
Spacing Criteria (0/90/45): 0.31 / 0.63 / 0.43
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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: P1179403

CATALOG NUMBER: LDA2B159030R2040D010 2LBDC1MW

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	87	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	94	87	82	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°	1271295	1271295	1271295
5°	1030459	1157391	1274566
10°	560238	821746	1138160
15°	236944	461119	911053
20°	120966	216835	629925
25°	66957	110941	383940
30°	37485	61583	209416
35°	21682	37281	106664
40°	16165	28273	59058
45°	14233	19117	35025
50°	15044	12664	18651
55°	10752	8774	10150
60°	7006	6216	6216
65°	5487	5487	5487
70°	4472	4472	4472
75°	4575	4575	4575
80°	4546	4546	4546
85°	4529	4529	4529

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 35025 cd/sqm

TEST NUMBER: P1179403

CATALOG NUMBER: LDA2B159030R2040D010 2LBDC1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.8	27.6
10°-20°	283.9	39.1
20°-30°	146.3	20.1
30°-40°	53.8	7.4
40°-50°	23.6	3.3
50°-60°	10.4	1.4
60°-70°	4.5	0.6
70°-80°	2.3	0.3
80°-90°	0.7	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°	631.0	86.9
0°-40°	684.8	94.3
0°-60°	718.8	99.0
0°-90°	726.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	726.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2577	2577	2577	2577	2577	
5°	2081	2151	2337	2502	2574	167
15°	464	539	903	1506	1784	142
25°	123	138	204	468	705	59
35°	36	42	62	108	177	25
45°	20	24	27	33	50	16
55°	12	11	10	11	12	11
65°	5	5	5	4	5	5
75°	2	2	2	2	2	2
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°	2576.8	2576.8	2576.8	2576.8	2576.8
2.5°	2429.4	2458.4	2512.5	2564.2	2585.4
5°	2080.7	2151.2	2337.0	2502.3	2573.6
7.5°	1611.3	1727.3	2028.2	2337.7	2464.7
10°	1118.3	1235.9	1640.3	2085.4	2271.9
12.5°	713.2	827.6	1264.1	1805.6	2047.8
15°	463.9	539.2	902.8	1506.3	1783.7
17.5°	322.1	375.4	614.4	1188.9	1491.4
20°	230.4	268.0	413.0	906.7	1199.8
22.5°	166.9	192.8	286.8	662.2	932.6
25°	123.0	137.9	203.8	467.9	705.3
27.5°	90.9	100.3	147.3	322.9	515.7
30°	65.8	73.7	108.1	221.8	367.6
32.5°	47.8	54.9	80.7	153.6	256.3
35°	36.0	41.5	61.9	108.1	177.1
37.5°	29.8	32.9	50.9	78.4	125.4
40°	25.1	28.2	43.9	58.0	91.7
42.5°	21.9	25.9	36.0	43.1	69.0
45°	20.4	23.5	27.4	32.9	50.2
47.5°	20.4	19.6	21.2	25.1	35.3
50°	19.6	16.5	16.5	19.6	24.3
52.5°	16.5	13.3	13.3	14.1	16.5
55°	12.5	11.0	10.2	11.0	11.8
57.5°	9.4	9.4	8.6	7.8	8.6
60°	7.1	7.1	6.3	6.3	6.3
62.5°	5.5	5.5	5.5	4.7	5.5
65°	4.7	4.7	4.7	3.9	4.7
67.5°	3.9	3.9	3.1	3.9	3.9
70°	3.1	3.1	3.1	3.1	3.1
72.5°	2.4	2.4	2.4	2.4	2.4
75°	2.4	2.4	2.4	2.4	2.4
77.5°	1.6	1.6	1.6	1.6	1.6
80°	1.6	1.6	1.6	1.6	1.6
82.5°	0.8	0.8	0.8	0.8	0.8
85°	0.8	0.8	0.8	0.8	0.8
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)