

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: P1179592

Luminaire Tested: LDA2B159730R2040D010 2LBD1MW

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1179592
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: LDA2B159730R2040D010 2LBD1MW
Description: 1500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 97 CRI LEDS AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

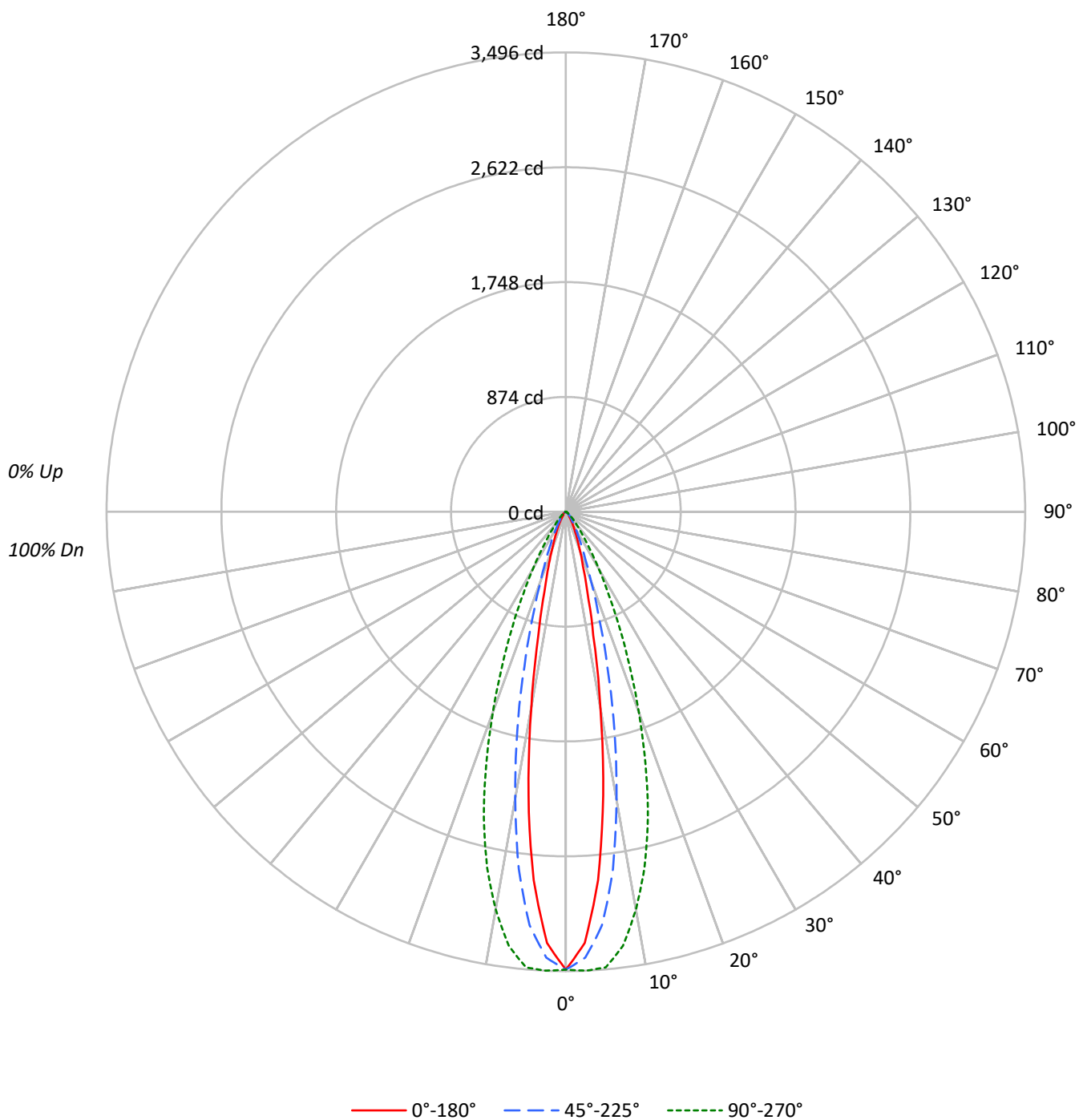
Lumens per Lamp: N/A
Luminaire Lumens: 982.0 lumens
Efficiency: N/A
Efficacy: 69.6 lumens/watt
Spacing Criteria (0/90/45): 0.31 / 0.63 / 0.43
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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: P1179592

CATALOG NUMBER: LDA2B159730R2040D010 2LBD1MW

Luminous Intensity Polar Plot



TEST NUMBER: P1179592

CATALOG NUMBER: LDA2B159730R2040D010 2LBD1MW

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	99	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	95	91	87	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	94	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°	1718922	1718922	1718922
5°	1393326	1564929	1723408
10°	757521	1111057	1538938
15°	320403	623492	1231865
20°	163545	293174	851747
25°	90582	149972	519160
30°	50702	83288	283134
35°	29331	50411	144247
40°	21833	38191	79861
45°	19257	25885	47305
50°	20340	17116	25175
55°	14623	11870	13676
60°	9374	8387	8387
65°	7471	7471	7471
70°	6058	6058	6058
75°	6100	6100	6100
80°	5966	5966	5966
85°	6227	6227	6227

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 47305 cd/sqm

TEST NUMBER: P1179592

CATALOG NUMBER: LDA2B159730R2040D010 2LBD1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	271.5	27.6
10°-20°	383.9	39.1
20°-30°	197.8	20.1
30°-40°	72.8	7.4
40°-50°	32.0	3.3
50°-60°	14.0	1.4
60°-70°	6.1	0.6
70°-80°	3.1	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°	853.1	86.9
0°-40°	925.9	94.3
0°-60°	971.9	99.0
0°-90°	982.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	982.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3484	3484	3484	3484	3484	
5°	2813	2909	3160	3383	3480	226
15°	627	729	1221	2037	2412	192
25°	166	186	276	633	954	80
35°	49	56	84	146	240	33
45°	28	32	37	44	68	22
55°	17	15	14	15	16	16
65°	6	6	6	5	6	6
75°	3	3	3	3	3	3
85°	1	1	1	1	1	1
90°	0	0	0	0	0	

TEST NUMBER: P1179592

CATALOG NUMBER: LDA2B159730R2040D010 2LBD1MW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3484.1	3484.1	3484.1	3484.1	3484.1
2.5°	3284.9	3324.1	3397.2	3467.2	3495.8
5°	2813.4	2908.7	3159.9	3383.4	3479.9
7.5°	2178.6	2335.5	2742.4	3160.9	3332.6
10°	1512.1	1671.1	2217.8	2819.7	3071.9
12.5°	964.3	1119.0	1709.2	2441.4	2768.9
15°	627.3	729.0	1220.7	2036.6	2411.8
17.5°	435.5	507.6	830.8	1607.5	2016.5
20°	311.5	362.4	558.4	1226.0	1622.3
22.5°	225.7	260.7	387.8	895.4	1261.0
25°	166.4	186.5	275.5	632.6	953.7
27.5°	122.9	135.6	199.2	436.6	697.2
30°	89.0	99.6	146.2	299.9	497.0
32.5°	64.6	74.2	109.1	207.7	346.5
35°	48.7	56.2	83.7	146.2	239.5
37.5°	40.3	44.5	68.9	106.0	169.5
40°	33.9	38.1	59.3	78.4	124.0
42.5°	29.7	35.0	48.7	58.3	93.2
45°	27.6	31.8	37.1	44.5	67.8
47.5°	27.6	26.5	28.6	33.9	47.7
50°	26.5	22.3	22.3	26.5	32.8
52.5°	22.3	18.0	18.0	19.1	22.3
55°	17.0	14.8	13.8	14.8	15.9
57.5°	12.7	12.7	11.7	10.6	11.7
60°	9.5	9.5	8.5	8.5	8.5
62.5°	7.4	7.4	7.4	6.4	7.4
65°	6.4	6.4	6.4	5.3	6.4
67.5°	5.3	5.3	4.2	5.3	5.3
70°	4.2	4.2	4.2	4.2	4.2
72.5°	3.2	3.2	3.2	3.2	3.2
75°	3.2	3.2	3.2	3.2	3.2
77.5°	2.1	2.1	2.1	2.1	2.1
80°	2.1	2.1	2.1	2.1	2.1
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)