

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: P1179600

Luminaire Tested: LDA2B159730R2050D010 2LBD1GPH

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1179600
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2206-683-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/17/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDA2B159730R2050D010 2LBD1GPH
Description: 1500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 97 CRI LEDS AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

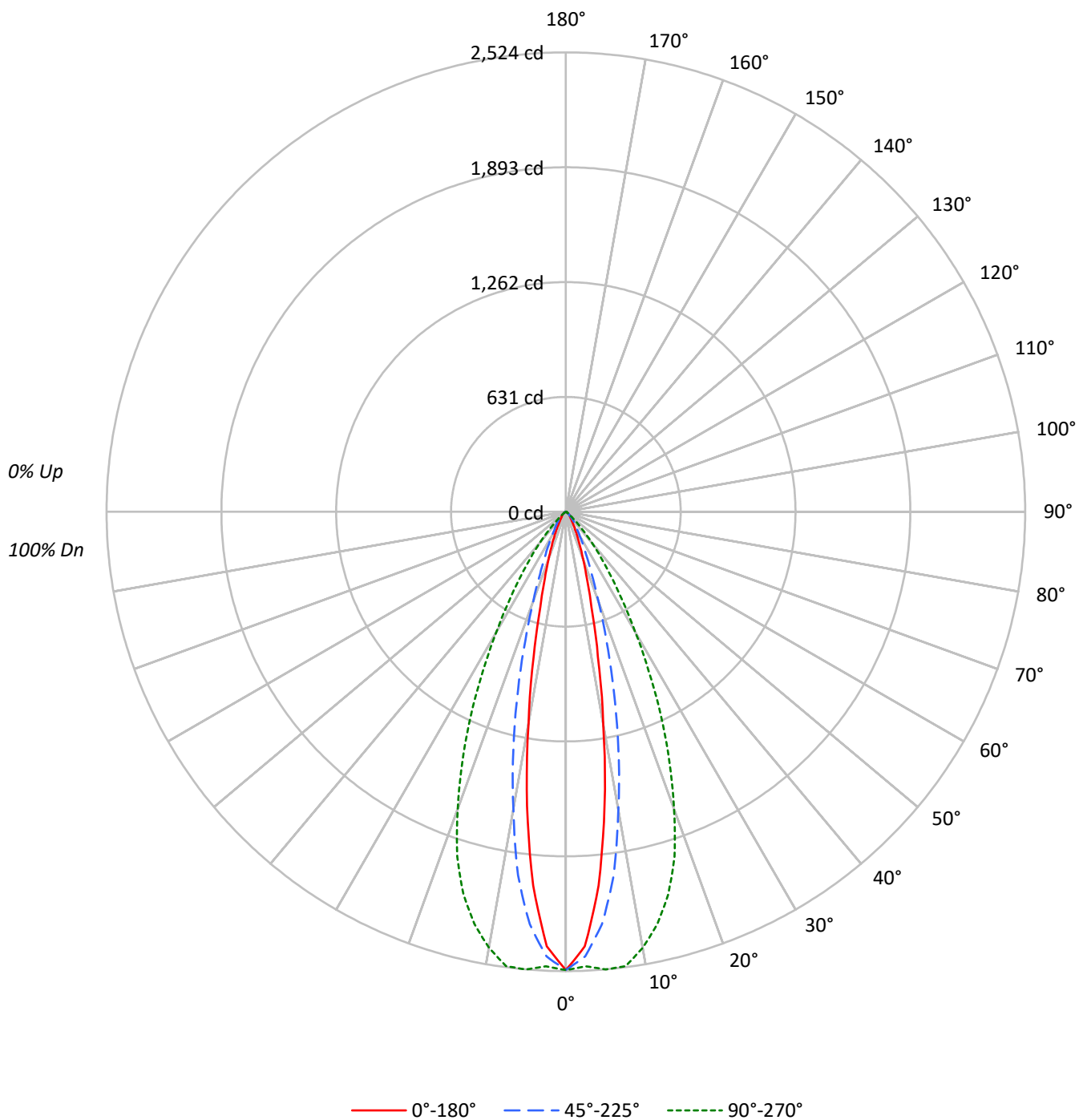
Lumens per Lamp: N/A
Luminaire Lumens: 904.8 lumens
Efficiency: N/A
Efficacy: 64.2 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.8 / 0.47
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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: P1179600

CATALOG NUMBER: LDA2B159730R2050D010 2LBD1GPH

Luminous Intensity Polar Plot



TEST NUMBER: P1179600

CATALOG NUMBER: LDA2B159730R2050D010 2LBD1GPH

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	109	107	112	109	107	106	105	104	102	102	100	99	98	97	96	96	96	95
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	93	91	91	91	90
3	105	99	95	91	103	98	94	90	95	92	89	93	90	88	91	88	86	86	86	85
4	100	94	89	85	99	93	88	85	91	87	84	89	85	83	87	84	82	82	82	80
5	96	89	84	80	95	88	83	80	86	82	79	85	81	78	83	80	78	78	78	76
6	92	85	80	76	91	84	79	76	83	78	75	81	77	75	80	77	74	74	74	73
7	89	81	76	72	88	80	75	72	79	75	71	78	74	71	77	73	71	71	71	70
8	86	77	72	69	84	77	72	69	76	71	68	75	71	68	74	70	68	68	68	67
9	82	74	69	66	81	74	69	66	73	68	65	72	68	65	71	68	65	65	65	64
10	79	71	66	63	79	71	66	63	70	66	63	69	65	63	69	65	62	62	62	61

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1242088	1242088	1242088
5°	1021148	1126685	1249952
10°	592751	832567	1218616
15°	276171	518529	1110558
20°	145537	273380	912808
25°	80566	148013	673216
30°	47227	86706	435410
35°	30355	58181	257958
40°	23636	39222	143363
45°	20513	23443	63702
50°	18498	16118	23333
55°	12644	11698	10838
60°	9275	8288	8288
65°	7355	6070	7355
70°	6058	6058	6058
75°	5909	5909	5909
80°	5966	5966	5966
85°	5661	5661	5661

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 63702 cd/sqm

TEST NUMBER: P1179600

CATALOG NUMBER: LDA2B159730R2050D010 2LBD1GPH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.5	22.2
10°-20°	328.2	36.3
20°-30°	218.9	24.2
30°-40°	98.7	10.9
40°-50°	36.1	4.0
50°-60°	12.6	1.4
60°-70°	5.9	0.7
70°-80°	3.1	0.3
80°-90°	0.8	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°	747.6	82.6
0°-40°	846.3	93.5
0°-60°	895.0	98.9
0°-90°	904.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	904.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2518	2518	2518	2518	2518	
5°	2062	2126	2275	2441	2524	168
15°	541	635	1015	1716	2174	162
25°	148	172	272	741	1237	71
35°	50	57	97	209	428	33
45°	29	29	34	52	91	23
55°	15	14	14	12	13	14
65°	6	6	5	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: P1179600

CATALOG NUMBER: LDA2B159730R2050D010 2LBD1GPH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2517.6	2517.6	2517.6	2517.6	2517.6
2.5°	2390.5	2415.7	2445.1	2475.6	2499.7
5°	2061.9	2126.0	2275.0	2440.9	2523.9
7.5°	1630.4	1724.9	2014.7	2342.2	2517.6
10°	1183.2	1303.9	1661.9	2171.1	2432.5
12.5°	813.6	927.0	1333.3	1954.8	2320.2
15°	540.7	635.2	1015.2	1715.5	2174.3
17.5°	381.1	445.1	738.0	1454.1	1986.3
20°	277.2	320.2	520.7	1197.9	1738.6
22.5°	201.6	234.1	370.6	957.5	1487.6
25°	148.0	172.2	271.9	741.2	1236.7
27.5°	110.2	129.1	203.7	562.7	985.8
30°	82.9	98.7	152.2	414.7	764.3
32.5°	64.0	74.5	116.5	296.1	578.5
35°	50.4	56.7	96.6	208.9	428.3
37.5°	42.0	46.2	79.8	145.9	313.9
40°	36.7	39.9	60.9	103.9	222.6
42.5°	32.5	34.6	44.1	74.5	144.9
45°	29.4	29.4	33.6	52.5	91.3
47.5°	27.3	24.1	26.2	36.7	53.5
50°	24.1	19.9	21.0	25.2	30.4
52.5°	18.9	16.8	16.8	16.8	17.8
55°	14.7	13.6	13.6	11.5	12.6
57.5°	11.5	11.5	10.5	9.4	10.5
60°	9.4	9.4	8.4	7.3	8.4
62.5°	7.3	7.3	6.3	6.3	7.3
65°	6.3	6.3	5.2	5.2	6.3
67.5°	5.2	5.2	5.2	4.2	5.2
70°	4.2	4.2	4.2	4.2	4.2
72.5°	3.1	3.1	4.2	3.1	3.1
75°	3.1	3.1	3.1	3.1	3.1
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°	1.0	1.0	1.0	1.0	1.0
85°	1.0	1.0	1.0	1.0	1.0
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)