

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: P1178154

Luminaire Tested: LDA2B058030R2040D010 2LBD1H

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1178154
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: LDA2B058030R2040D010 2LBD1H
Description: 500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 80 CRI LEDS AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

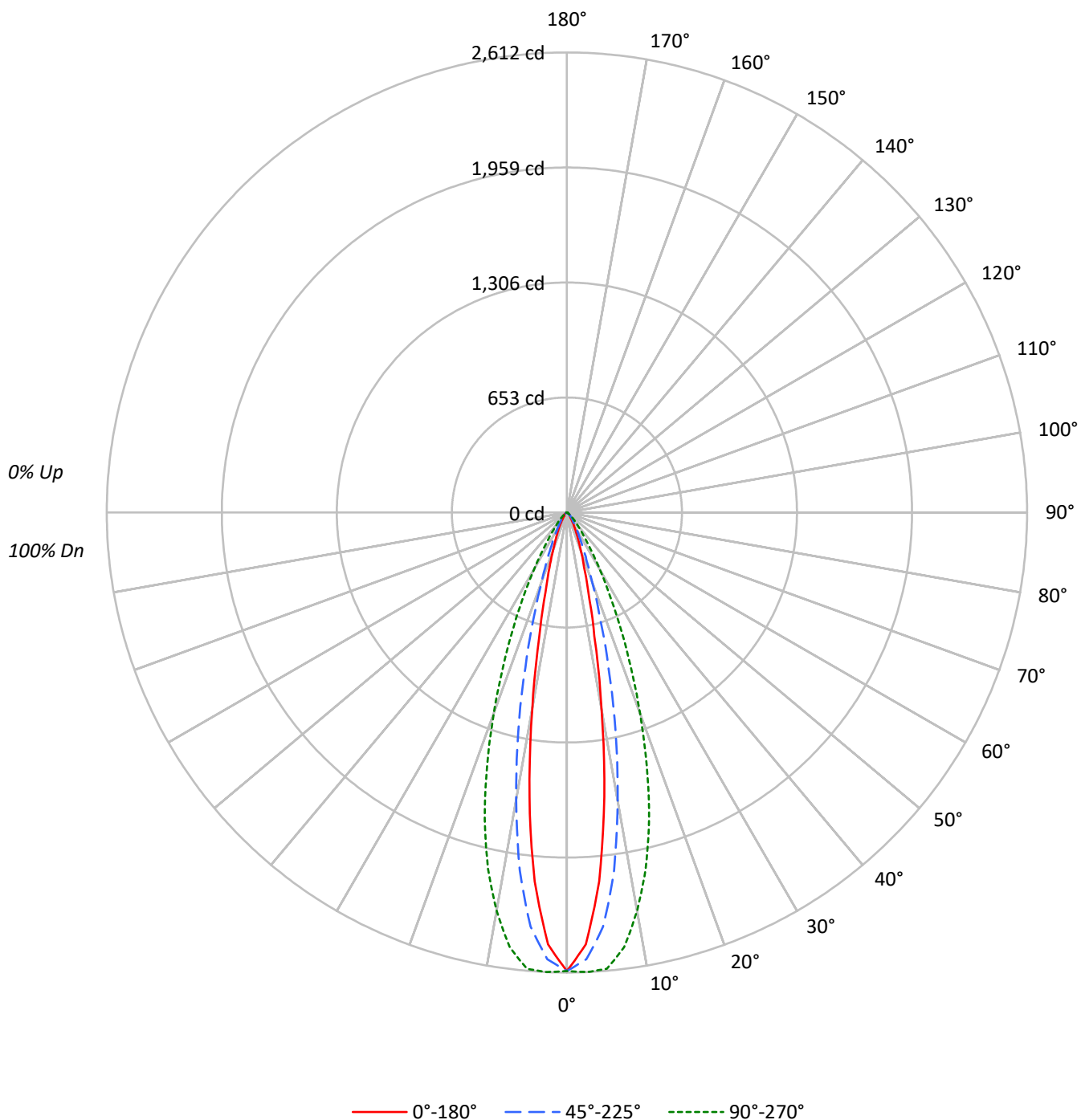
Lumens per Lamp: N/A
Luminaire Lumens: 733.8 lumens
Efficiency: N/A
Efficacy: 104.8 lumens/watt
Spacing Criteria (0/90/45): 0.31 / 0.63 / 0.43
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 7
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: P1178154

CATALOG NUMBER: LDA2B058030R2040D010 2LBD1H

Luminous Intensity Polar Plot



TEST NUMBER: P1178154

CATALOG NUMBER: LDA2B058030R2040D010 2LBD1H

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°	1284369	1284369	1284369
5°	1041057	1169277	1287690
10°	565999	830162	1149883
15°	239396	465869	920400
20°	122226	219093	636435
25°	67665	112085	387914
30°	37884	62267	211524
35°	21923	37643	107749
40°	16294	28531	59638
45°	14373	19327	35374
50°	15197	12741	18805
55°	10924	8860	10236
60°	7006	6216	6216
65°	5603	5603	5603
70°	4616	4616	4616
75°	4575	4575	4575
80°	4546	4546	4546
85°	4529	4529	4529

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 35374 cd/sqm

TEST NUMBER: P1178154

CATALOG NUMBER: LDA2B058030R2040D010 2LBD1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.8	27.6
10°-20°	286.8	39.1
20°-30°	147.8	20.1
30°-40°	54.4	7.4
40°-50°	23.9	3.3
50°-60°	10.5	1.4
60°-70°	4.6	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°	637.4	86.9
0°-40°	691.8	94.3
0°-60°	726.2	99.0
0°-90°	733.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	733.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2603	2603	2603	2603	2603	
5°	2102	2173	2361	2528	2600	169
15°	469	545	912	1522	1802	143
25°	124	139	206	473	713	60
35°	36	42	62	109	179	25
45°	21	24	28	33	51	17
55°	13	11	10	11	12	12
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	

TEST NUMBER: P1178154

CATALOG NUMBER: LDA2B058030R2040D010 2LBD1H

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2603.3	2603.3	2603.3	2603.3	2603.3
2.5°	2454.4	2483.7	2538.3	2590.6	2612.0
5°	2102.1	2173.3	2361.0	2528.0	2600.1
7.5°	1627.8	1745.0	2049.0	2361.8	2490.0
10°	1129.8	1248.6	1657.1	2106.8	2295.3
12.5°	720.5	836.1	1277.1	1824.2	2068.8
15°	468.7	544.7	912.1	1521.7	1802.0
17.5°	325.4	379.2	620.7	1201.1	1506.7
20°	232.8	270.8	417.3	916.1	1212.2
22.5°	168.6	194.8	289.8	669.0	942.2
25°	124.3	139.3	205.9	472.7	712.6
27.5°	91.8	101.3	148.8	326.2	521.0
30°	66.5	74.4	109.3	224.1	371.3
32.5°	48.3	55.4	81.5	155.2	258.9
35°	36.4	42.0	62.5	109.3	178.9
37.5°	30.1	33.3	51.5	79.2	126.7
40°	25.3	28.5	44.3	58.6	92.6
42.5°	22.2	26.1	36.4	43.5	69.7
45°	20.6	23.8	27.7	33.3	50.7
47.5°	20.6	19.8	21.4	25.3	35.6
50°	19.8	16.6	16.6	19.8	24.5
52.5°	16.6	13.5	13.5	14.3	16.6
55°	12.7	11.1	10.3	11.1	11.9
57.5°	9.5	9.5	8.7	7.9	8.7
60°	7.1	7.1	6.3	6.3	6.3
62.5°	5.5	5.5	5.5	4.8	5.5
65°	4.8	4.8	4.8	4.0	4.8
67.5°	4.0	4.0	3.2	4.0	4.0
70°	3.2	3.2	3.2	3.2	3.2
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)