

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: P1178266

Luminaire Tested: LDA2B058050R2040D010 2LBD1B

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1178266
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: LDA2B058050R2040D010 2LBD1B
Description: 500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 80 CRI LEDS AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

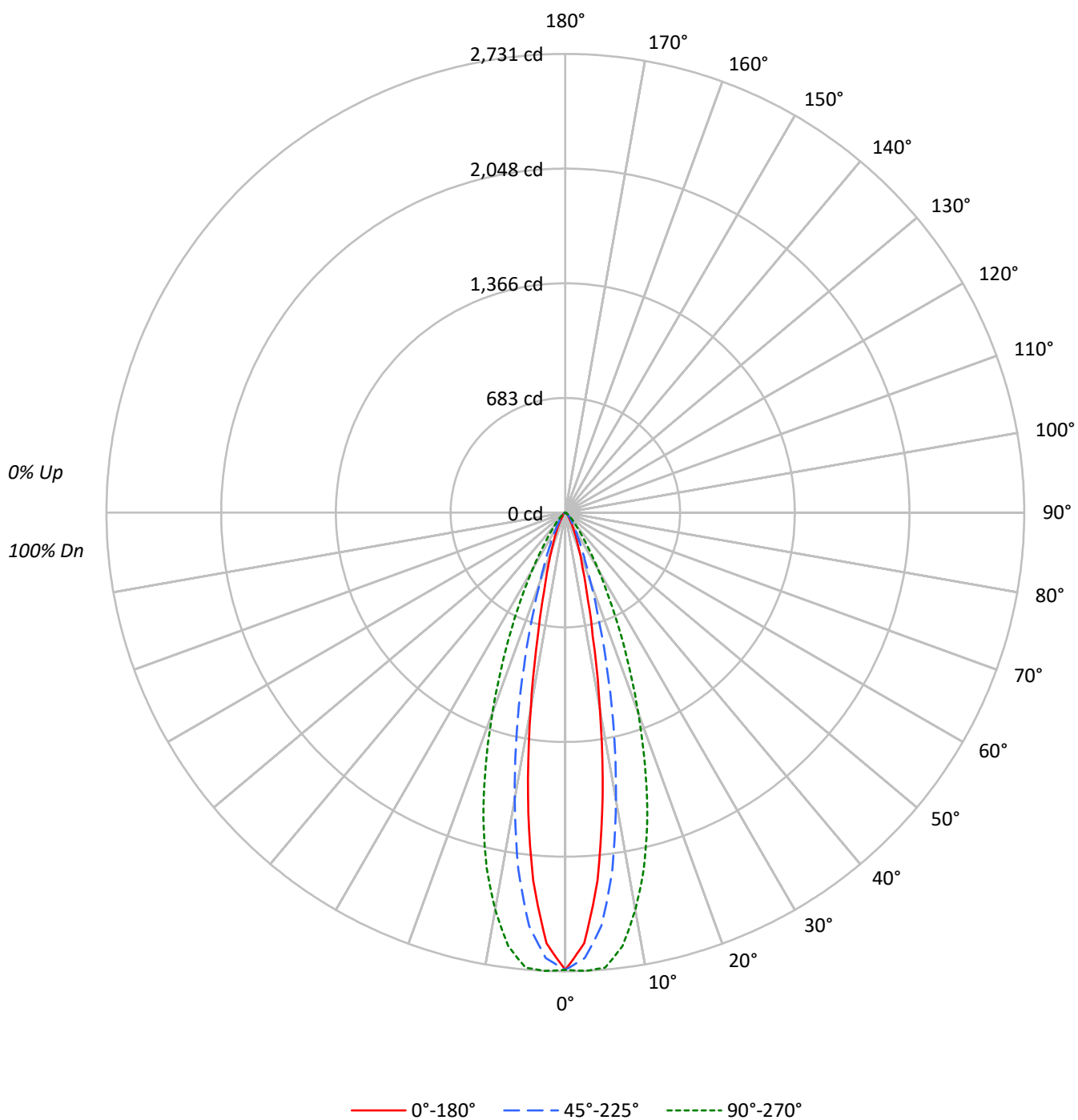
Lumens per Lamp: N/A
Luminaire Lumens: 767.2 lumens
Efficiency: N/A
Efficacy: 109.6 lumens/watt
Spacing Criteria (0/90/45): 0.31 / 0.63 / 0.43
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P1178266

CATALOG NUMBER: LDA2B058050R2040D010 2LBD1B

Luminous Intensity Polar Plot



TEST NUMBER: P1178266

CATALOG NUMBER: LDA2B058050R2040D010 2LBD1B

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	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°	1342881	1342881	1342881
5°	1088502	1222565	1346377
10°	591799	868035	1202284
15°	250326	487117	962385
20°	127791	229068	665416
25°	70767	117147	405606
30°	39593	65058	221209
35°	22947	39389	112687
40°	17067	29883	62407
45°	15001	20234	36979
50°	15888	13355	19726
55°	11354	9290	10666
60°	7400	6512	6512
65°	5837	5837	5837
70°	4760	4760	4760
75°	4766	4766	4766
80°	4830	4830	4830
85°	4529	4529	4529

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 36979 cd/sqm

TEST NUMBER: P1178266

CATALOG NUMBER: LDA2B058050R2040D010 2LBD1B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.1	27.6
10°-20°	299.9	39.1
20°-30°	154.5	20.1
30°-40°	56.9	7.4
40°-50°	25.0	3.3
50°-60°	11.0	1.4
60°-70°	4.8	0.6
70°-80°	2.4	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°	666.5	86.9
0°-40°	723.4	94.3
0°-60°	759.3	99.0
0°-90°	767.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	767.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2722	2722	2722	2722	2722	
5°	2198	2272	2469	2643	2719	177
15°	490	570	954	1591	1884	150
25°	130	146	215	494	745	62
35°	38	44	65	114	187	26
45°	22	25	29	35	53	17
55°	13	12	11	12	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: P1178266

CATALOG NUMBER: LDA2B058050R2040D010 2LBD1B

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2721.9	2721.9	2721.9	2721.9	2721.9
2.5°	2566.3	2596.9	2654.1	2708.7	2731.0
5°	2197.9	2272.4	2468.6	2643.3	2718.6
7.5°	1702.0	1824.6	2142.5	2469.5	2603.6
10°	1181.3	1305.5	1732.7	2202.9	2399.9
12.5°	753.3	874.2	1335.3	1907.3	2163.1
15°	490.1	569.6	953.7	1591.1	1884.2
17.5°	340.2	396.5	649.0	1255.8	1575.4
20°	243.4	283.1	436.3	957.8	1267.4
22.5°	176.3	203.6	303.0	699.5	985.1
25°	130.0	145.7	215.2	494.2	745.1
27.5°	96.0	106.0	155.6	341.1	544.7
30°	69.5	77.8	114.2	234.3	388.3
32.5°	50.5	57.9	85.3	162.3	270.7
35°	38.1	43.9	65.4	114.2	187.1
37.5°	31.5	34.8	53.8	82.8	132.5
40°	26.5	29.8	46.4	61.3	96.9
42.5°	23.2	27.3	38.1	45.5	72.9
45°	21.5	24.8	29.0	34.8	53.0
47.5°	21.5	20.7	22.4	26.5	37.3
50°	20.7	17.4	17.4	20.7	25.7
52.5°	17.4	14.1	14.1	14.9	17.4
55°	13.2	11.6	10.8	11.6	12.4
57.5°	9.9	9.9	9.1	8.3	9.1
60°	7.5	7.5	6.6	6.6	6.6
62.5°	5.8	5.8	5.8	5.0	5.8
65°	5.0	5.0	5.0	4.1	5.0
67.5°	4.1	4.1	3.3	4.1	4.1
70°	3.3	3.3	3.3	3.3	3.3
72.5°	2.5	2.5	2.5	2.5	2.5
75°	2.5	2.5	2.5	2.5	2.5
77.5°	1.7	1.7	1.7	1.7	1.7
80°	1.7	1.7	1.7	1.7	1.7
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)