

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: P1179492

Luminaire Tested: LDA2B159040R2050D010 2LBDC1MB

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1179492
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: LDA2B159040R2050D010 2LBDC1MB
Description: 1500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

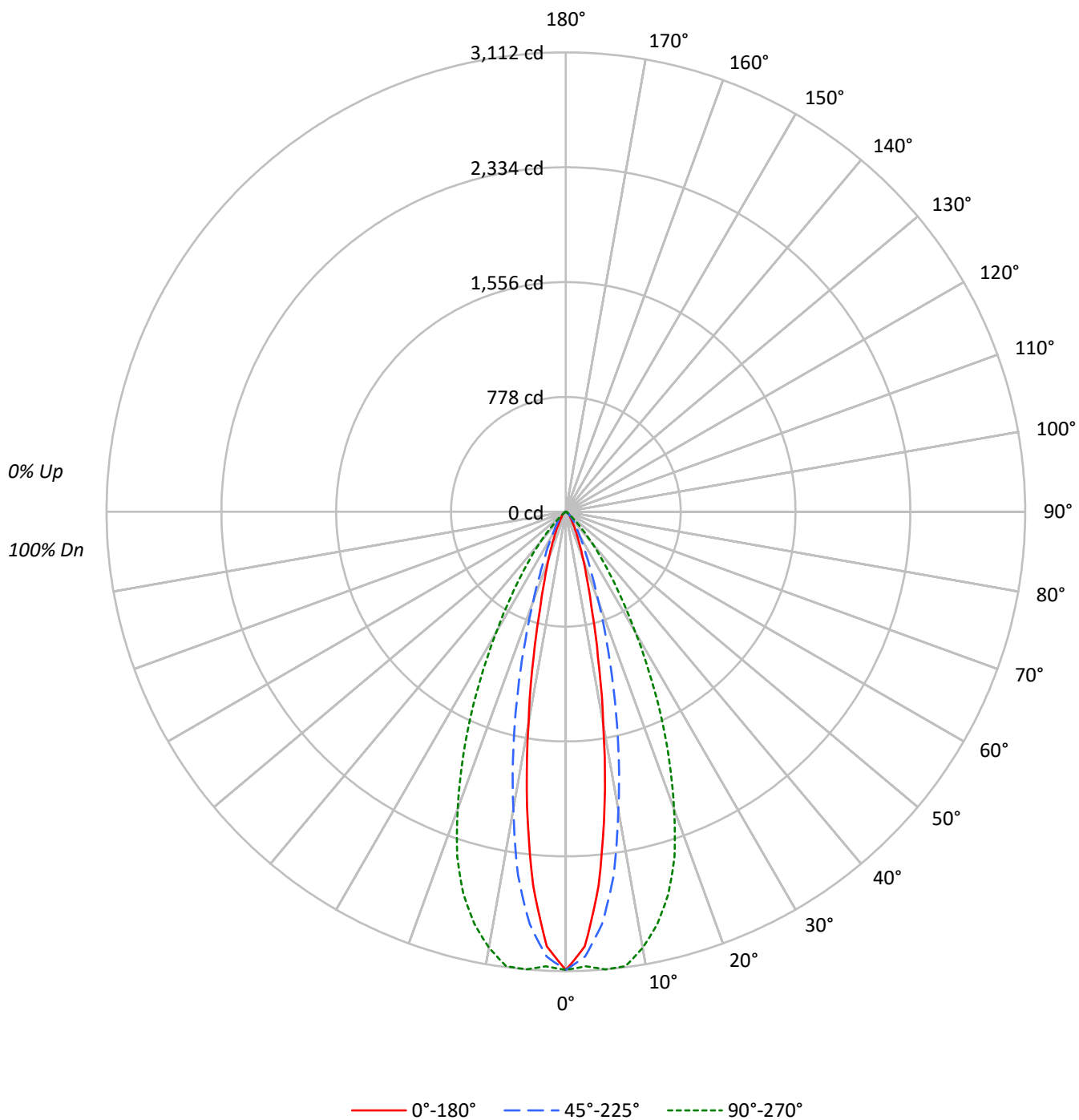
Lumens per Lamp: N/A
Luminaire Lumens: 1115.8 lumens
Efficiency: N/A
Efficacy: 79.1 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.8 / 0.47
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (A_{in}): 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

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1531346	1531346	1531346
5°	1259015	1389116	1541058
10°	730819	1026493	1502467
15°	340476	639325	1369210
20°	179401	337066	1125390
25°	99347	182471	830047
30°	58279	106930	536814
35°	37402	71732	318066
40°	29175	48367	176724
45°	25257	28886	78563
50°	22873	19879	28783
55°	15569	14451	13332
60°	11446	10262	10262
65°	9106	7588	9106
70°	7501	7501	7501
75°	7434	7434	7434
80°	7387	7387	7387
85°	7359	7359	7359

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 78563 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	247.1	22.1
10°-20°	404.7	36.3
20°-30°	269.9	24.2
30°-40°	121.7	10.9
40°-50°	44.5	4.0
50°-60°	15.6	1.4
60°-70°	7.3	0.7
70°-80°	3.9	0.3
80°-90°	1.1	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°	921.7	82.6
0°-40°	1043.4	93.5
0°-60°	1103.5	98.9
0°-90°	1115.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1115.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3104	3104	3104	3104	3104	
5°	2542	2621	2805	3009	3112	208
15°	667	783	1252	2115	2681	200
25°	182	212	335	914	1525	88
35°	62	70	119	258	528	41
45°	36	36	41	65	113	28
55°	18	17	17	14	16	17
65°	8	8	6	6	8	8
75°	4	4	4	4	4	4
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°	3103.9	3103.9	3103.9	3103.9	3103.9
2.5°	2947.3	2978.4	3014.6	3052.2	3081.9
5°	2542.2	2621.1	2804.9	3009.4	3111.7
7.5°	2010.2	2126.7	2483.9	2887.8	3103.9
10°	1458.8	1607.6	2049.0	2676.8	2999.1
12.5°	1003.1	1142.9	1643.9	2410.1	2860.6
15°	666.6	783.1	1251.7	2115.0	2680.7
17.5°	469.9	548.8	910.0	1792.7	2449.0
20°	341.7	394.8	642.0	1476.9	2143.5
22.5°	248.5	288.6	456.9	1180.5	1834.1
25°	182.5	212.3	335.2	913.8	1524.8
27.5°	135.9	159.2	251.1	693.8	1215.4
30°	102.3	121.7	187.7	511.3	942.3
32.5°	79.0	91.9	143.7	365.0	713.2
35°	62.1	69.9	119.1	257.6	528.1
37.5°	51.8	57.0	98.4	179.9	387.0
40°	45.3	49.2	75.1	128.1	274.4
42.5°	40.1	42.7	54.4	91.9	178.6
45°	36.2	36.2	41.4	64.7	112.6
47.5°	33.7	29.8	32.4	45.3	66.0
50°	29.8	24.6	25.9	31.1	37.5
52.5°	23.3	20.7	20.7	20.7	22.0
55°	18.1	16.8	16.8	14.2	15.5
57.5°	14.2	14.2	12.9	11.6	12.9
60°	11.6	11.6	10.4	9.1	10.4
62.5°	9.1	9.1	7.8	7.8	9.1
65°	7.8	7.8	6.5	6.5	7.8
67.5°	6.5	6.5	6.5	5.2	6.5
70°	5.2	5.2	5.2	5.2	5.2
72.5°	3.9	3.9	5.2	3.9	3.9
75°	3.9	3.9	3.9	3.9	3.9
77.5°	2.6	2.6	2.6	2.6	2.6
80°	2.6	2.6	2.6	2.6	2.6
82.5°	1.3	1.3	1.3	1.3	1.3
85°	1.3	1.3	1.3	1.3	1.3
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)