

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: P1179531

Luminaire Tested: LDA2B159050R2050D010 2LBDC1MB

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1179531
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: LDA2B159050R2050D010 2LBDC1MB
Description: 1500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

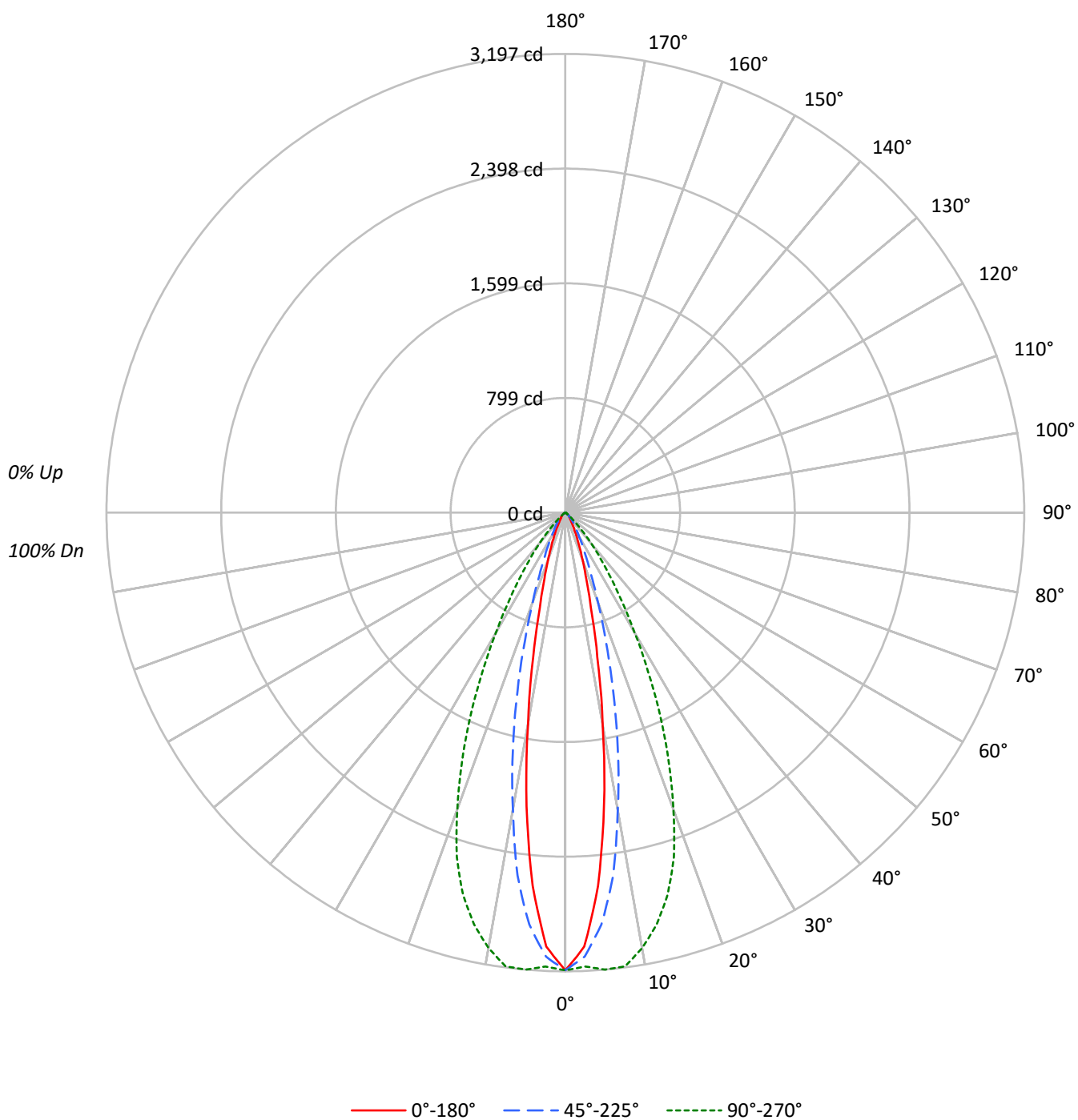
Lumens per Lamp: N/A
Luminaire Lumens: 1146.3 lumens
Efficiency: N/A
Efficacy: 81.3 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.8 / 0.47
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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

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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°	1573281	1573281	1573281
5°	1293435	1427151	1583204
10°	750808	1054598	1543547
15°	349772	656794	1406649
20°	184336	346306	1156157
25°	102068	187479	852747
30°	59874	109835	551512
35°	38426	73659	326799
40°	29948	49655	181554
45°	25955	29723	80726
50°	23487	20416	29627
55°	15999	14881	13762
60°	11841	10459	10459
65°	9339	7705	9339
70°	7645	7645	7645
75°	7625	7625	7625
80°	7671	7671	7671
85°	7359	7359	7359

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 80726 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	253.9	22.2
10°-20°	415.7	36.3
20°-30°	277.3	24.2
30°-40°	125.0	10.9
40°-50°	45.8	4.0
50°-60°	16.0	1.4
60°-70°	7.5	0.7
70°-80°	4.0	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°	947.0	82.6
0°-40°	1072.0	93.5
0°-60°	1133.7	98.9
0°-90°	1146.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1146.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3189	3189	3189	3189	3189	
5°	2612	2693	2882	3092	3197	213
15°	685	804	1286	2173	2754	205
25°	188	218	344	939	1566	91
35°	64	72	122	265	543	42
45°	37	37	43	66	116	29
55°	19	17	17	15	16	17
65°	8	8	7	7	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°	3188.9	3188.9	3188.9	3188.9	3188.9
2.5°	3028.0	3059.9	3097.1	3135.7	3166.3
5°	2611.7	2692.8	2881.7	3091.8	3196.8
7.5°	2065.2	2184.9	2551.9	2966.8	3188.9
10°	1498.7	1651.6	2105.1	2750.0	3081.1
12.5°	1030.6	1174.2	1688.8	2476.1	2938.9
15°	684.8	804.5	1285.9	2172.9	2754.0
17.5°	482.7	563.8	934.8	1841.8	2516.0
20°	351.1	405.6	659.6	1517.3	2202.1
22.5°	255.3	296.5	469.4	1212.8	1884.3
25°	187.5	218.1	344.4	938.8	1566.5
27.5°	139.6	163.6	258.0	712.8	1248.7
30°	105.1	125.0	192.8	525.3	968.1
32.5°	81.1	94.4	147.6	375.0	732.7
35°	63.8	71.8	122.3	264.6	542.6
37.5°	53.2	58.5	101.1	184.8	397.6
40°	46.5	50.5	77.1	131.7	281.9
42.5°	41.2	43.9	55.9	94.4	183.5
45°	37.2	37.2	42.6	66.5	115.7
47.5°	34.6	30.6	33.2	46.5	67.8
50°	30.6	25.3	26.6	31.9	38.6
52.5°	23.9	21.3	21.3	21.3	22.6
55°	18.6	17.3	17.3	14.6	16.0
57.5°	14.6	14.6	13.3	12.0	13.3
60°	12.0	12.0	10.6	9.3	10.6
62.5°	9.3	9.3	8.0	8.0	9.3
65°	8.0	8.0	6.6	6.6	8.0
67.5°	6.6	6.6	6.6	5.3	6.6
70°	5.3	5.3	5.3	5.3	5.3
72.5°	4.0	4.0	5.3	4.0	4.0
75°	4.0	4.0	4.0	4.0	4.0
77.5°	2.7	2.7	2.7	2.7	2.7
80°	2.7	2.7	2.7	2.7	2.7
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)