

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: P1179533

Luminaire Tested: LDA2B159050R2050D010 2LBDC1MW

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1179533
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 2LBDC1MW
Description: 1500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

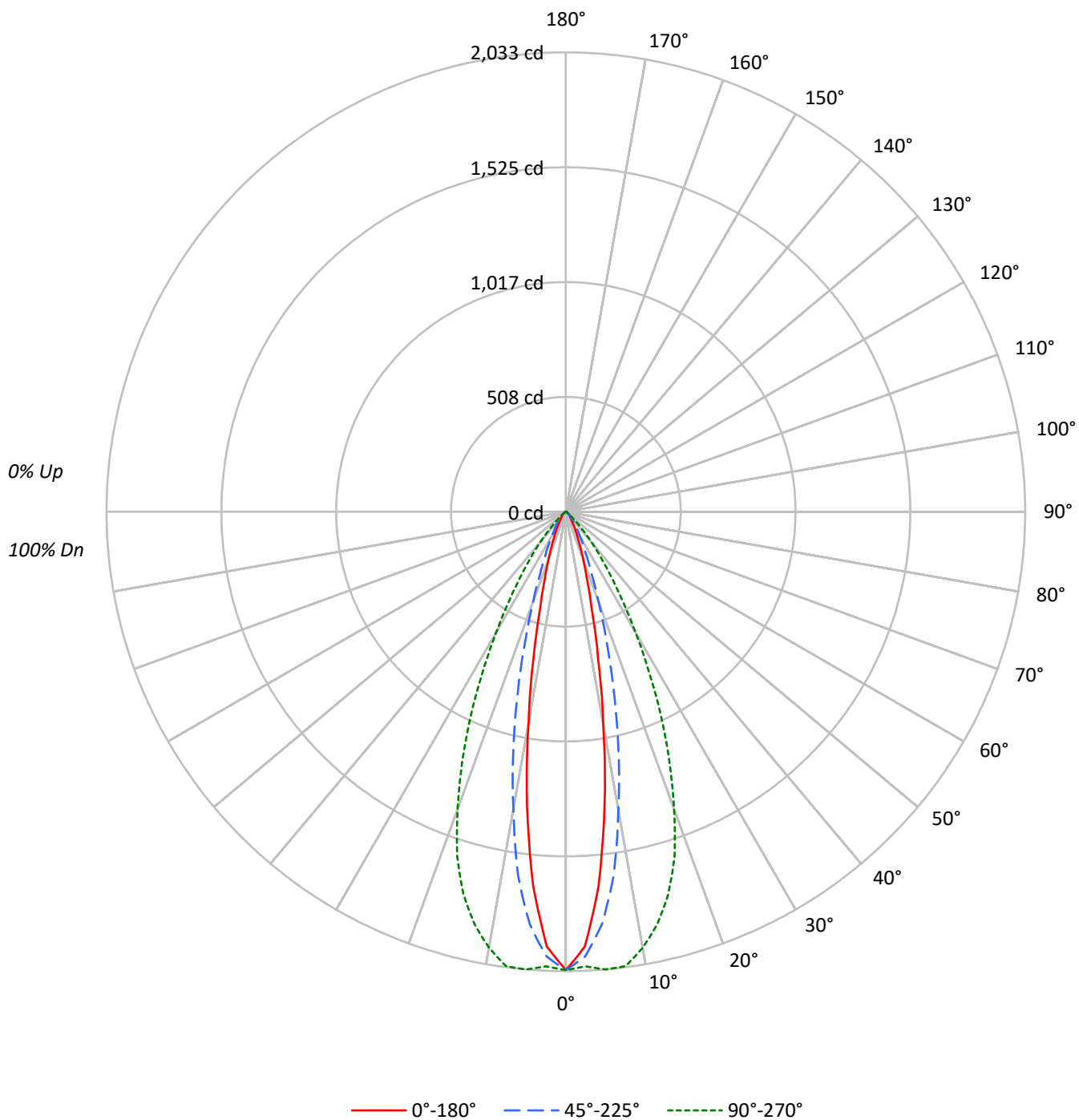
Lumens per Lamp: N/A
Luminaire Lumens: 729.0 lumens
Efficiency: N/A
Efficacy: 51.7 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.8 / 0.47
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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°	1000587	1000587	1000587
5°	822604	907638	1006935
10°	477527	670702	981706
15°	222490	417704	894606
20°	117238	220248	735350
25°	64888	119216	542350
30°	38055	69843	350755
35°	24453	46858	207848
40°	19064	31622	115476
45°	16536	18908	51352
50°	14967	12971	18805
55°	10150	9462	8688
60°	7499	6710	6710
65°	5954	4903	5954
70°	4904	4904	4904
75°	4766	4766	4766
80°	4830	4830	4830
85°	4529	4529	4529

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 51352 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.5	22.2
10°-20°	264.4	36.3
20°-30°	176.4	24.2
30°-40°	79.5	10.9
40°-50°	29.1	4.0
50°-60°	10.2	1.4
60°-70°	4.8	0.7
70°-80°	2.5	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°	602.3	82.6
0°-40°	681.8	93.5
0°-60°	721.1	98.9
0°-90°	729.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	729.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2028	2028	2028	2028	2028	
5°	1661	1713	1833	1966	2033	136
15°	436	512	818	1382	1752	130
25°	119	139	219	597	996	58
35°	41	46	78	168	345	27
45°	24	24	27	42	74	19
55°	12	11	11	9	10	11
65°	5	5	4	4	5	5
75°	2	2	2	2	2	2
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°	2028.1	2028.1	2028.1	2028.1	2028.1
2.5°	1925.8	1946.1	1969.7	1994.3	2013.7
5°	1661.0	1712.6	1832.7	1966.4	2033.2
7.5°	1313.4	1389.6	1623.0	1886.9	2028.1
10°	953.2	1050.4	1338.8	1749.0	1959.6
12.5°	655.5	746.8	1074.1	1574.8	1869.1
15°	435.6	511.7	817.8	1381.9	1751.5
17.5°	307.0	358.6	594.6	1171.4	1600.1
20°	223.3	258.0	419.5	965.0	1400.6
22.5°	162.4	188.6	298.5	771.3	1198.4
25°	119.2	138.7	219.0	597.1	996.3
27.5°	88.8	104.0	164.1	453.3	794.2
30°	66.8	79.5	122.6	334.1	615.7
32.5°	51.6	60.0	93.9	238.5	466.0
35°	40.6	45.7	77.8	168.3	345.1
37.5°	33.8	37.2	64.3	117.6	252.9
40°	29.6	32.1	49.1	83.7	179.3
42.5°	26.2	27.9	35.5	60.0	116.7
45°	23.7	23.7	27.1	42.3	73.6
47.5°	22.0	19.5	21.1	29.6	43.1
50°	19.5	16.1	16.9	20.3	24.5
52.5°	15.2	13.5	13.5	13.5	14.4
55°	11.8	11.0	11.0	9.3	10.1
57.5°	9.3	9.3	8.5	7.6	8.5
60°	7.6	7.6	6.8	5.9	6.8
62.5°	5.9	5.9	5.1	5.1	5.9
65°	5.1	5.1	4.2	4.2	5.1
67.5°	4.2	4.2	4.2	3.4	4.2
70°	3.4	3.4	3.4	3.4	3.4
72.5°	2.5	2.5	3.4	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)