

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: P1179520

Luminaire Tested: LDA2B159050R2040D010 2LBDC1MW

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1179520
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: LDA2B159050R2040D010 2LBDC1MW
Description: 1500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

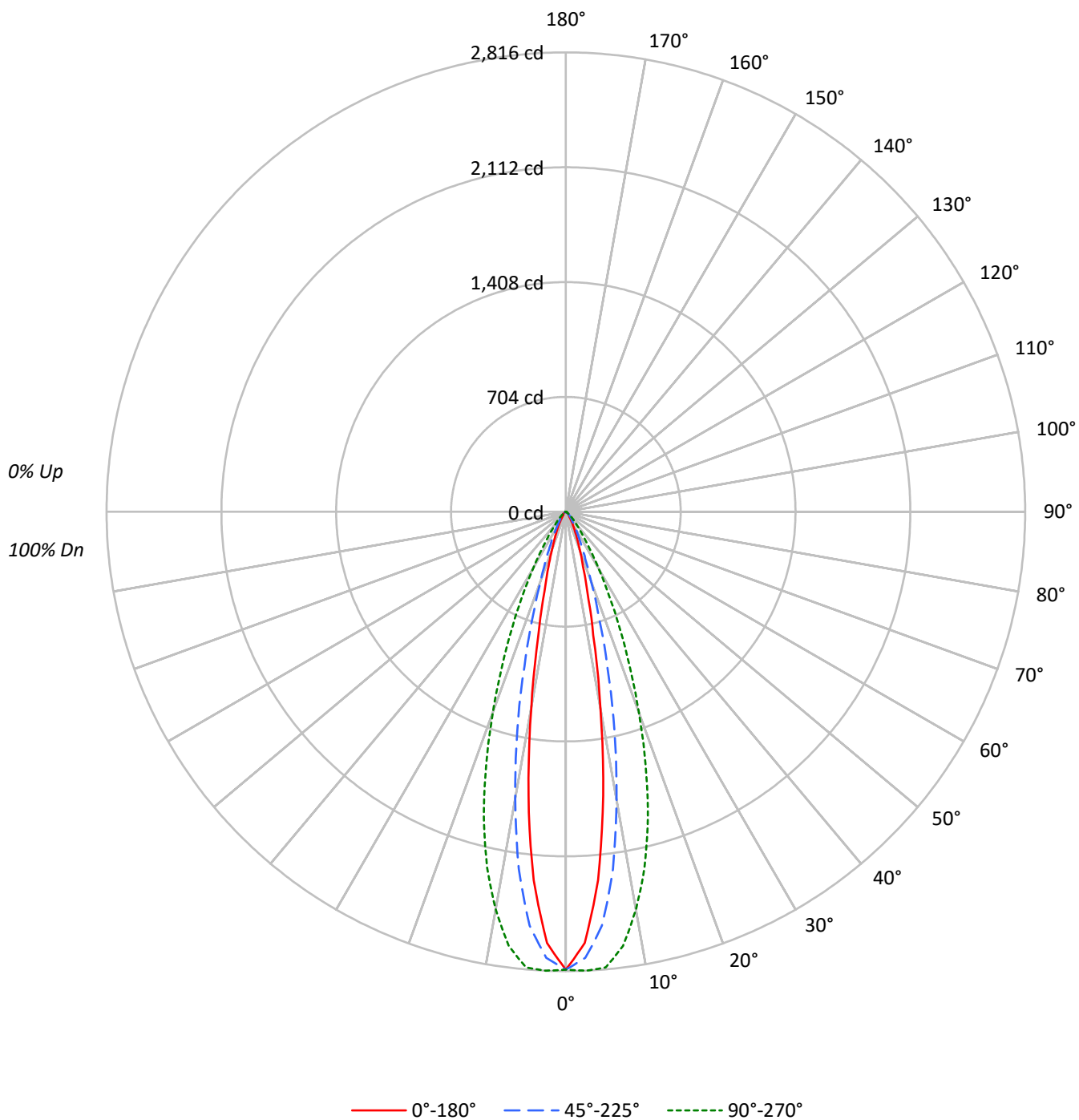
Lumens per Lamp: N/A
Luminaire Lumens: 791.1 lumens
Efficiency: N/A
Efficacy: 56.1 lumens/watt
Spacing Criteria (0/90/45): 0.31 / 0.63 / 0.43
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 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	110	108	112	110	108	106	106	104	103		102	101	100		99
2	110	106	102	99	108	104	101	98	101	98	96		98	96	94		95
3	106	100	96	93	104	99	95	92	96	93	91		94	92	89		92
4	102	95	91	87	100	94	90	87	92	89	86		90	87	85		89
5	98	91	86	83	97	90	86	83	89	85	82		87	84	81		86
6	94	87	83	79	93	87	82	79	85	81	78		84	80	78		83
7	91	84	79	76	90	83	79	75	82	78	75		81	77	75		80
8	88	81	76	73	87	80	76	72	79	75	72		78	75	72		77
9	85	78	73	70	84	77	73	70	76	72	70		76	72	69		75
10	83	75	70	67	82	75	70	67	74	70	67		73	70	67		73

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1384719	1384719	1384719
5°	1122426	1260650	1388324
10°	610235	895038	1239757
15°	258090	502287	992367
20°	131781	236209	686155
25°	72945	120794	418235
30°	40846	67109	228102
35°	23670	40594	116180
40°	17582	30785	64339
45°	15489	20862	38095
50°	16348	13739	20340
55°	11784	9548	11010
60°	7598	6710	6710
65°	5954	5954	5954
70°	4904	4904	4904
75°	4956	4956	4956
80°	4830	4830	4830
85°	5095	5095	5095

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 38095 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.7	27.6
10°-20°	309.3	39.1
20°-30°	159.3	20.1
30°-40°	58.6	7.4
40°-50°	25.7	3.3
50°-60°	11.3	1.4
60°-70°	4.9	0.6
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°	687.3	86.9
0°-40°	745.9	94.3
0°-60°	782.9	99.0
0°-90°	791.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	791.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2807	2807	2807	2807	2807	
5°	2266	2343	2546	2726	2803	182
15°	505	587	983	1641	1943	154
25°	134	150	222	510	768	64
35°	39	45	67	118	193	27
45°	22	26	30	36	55	18
55°	14	12	11	12	13	13
65°	5	5	5	4	5	5
75°	3	3	3	3	3	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°	2806.7	2806.7	2806.7	2806.7	2806.7
2.5°	2646.2	2677.8	2736.7	2793.1	2816.1
5°	2266.4	2343.2	2545.5	2725.6	2803.3
7.5°	1755.1	1881.4	2209.2	2546.4	2684.7
10°	1218.1	1346.2	1786.6	2271.5	2474.7
12.5°	776.8	901.4	1376.9	1966.8	2230.5
15°	505.3	587.3	983.4	1640.7	1942.9
17.5°	350.8	408.9	669.2	1295.0	1624.5
20°	251.0	291.9	449.9	987.6	1306.9
22.5°	181.8	210.0	312.4	721.3	1015.8
25°	134.0	150.2	221.9	509.6	768.3
27.5°	99.0	109.3	160.5	351.7	561.7
30°	71.7	80.2	117.8	241.6	400.4
32.5°	52.1	59.8	87.9	167.3	279.1
35°	39.3	45.2	67.4	117.8	192.9
37.5°	32.4	35.9	55.5	85.4	136.6
40°	27.3	30.7	47.8	63.2	99.9
42.5°	23.9	28.2	39.3	46.9	75.1
45°	22.2	25.6	29.9	35.9	54.6
47.5°	22.2	21.3	23.0	27.3	38.4
50°	21.3	17.9	17.9	21.3	26.5
52.5°	17.9	14.5	14.5	15.4	17.9
55°	13.7	12.0	11.1	12.0	12.8
57.5°	10.2	10.2	9.4	8.5	9.4
60°	7.7	7.7	6.8	6.8	6.8
62.5°	6.0	6.0	6.0	5.1	6.0
65°	5.1	5.1	5.1	4.3	5.1
67.5°	4.3	4.3	3.4	4.3	4.3
70°	3.4	3.4	3.4	3.4	3.4
72.5°	2.6	2.6	2.6	2.6	2.6
75°	2.6	2.6	2.6	2.6	2.6
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°	0.9	0.9	0.9	0.9	0.9
85°	0.9	0.9	0.9	0.9	0.9
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)