

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: P1179559

Luminaire Tested: LDA2B159727R2040D010 2LBDC1MW

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1179559
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: LDA2B159727R2040D010 2LBDC1MW
Description: 1500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 97 CRI LEDS AND 2700K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

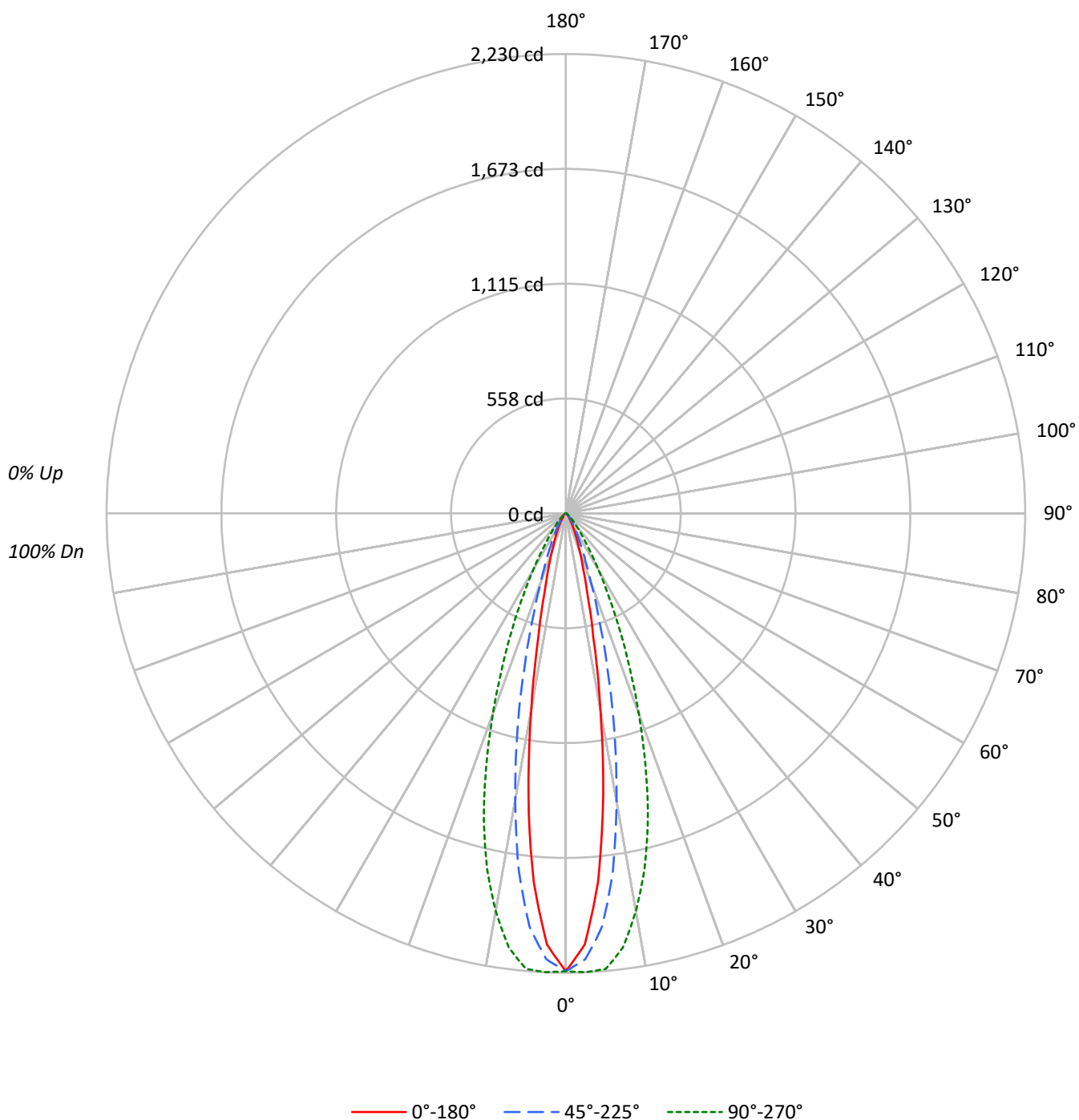
Lumens per Lamp: N/A
Luminaire Lumens: 626.4 lumens
Efficiency: N/A
Efficacy: 44.4 lumens/watt
Spacing Criteria (0/90/45): 0.31 / 0.63 / 0.43
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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			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	82	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°	1096398	1096398	1096398
5°	888720	998169	1099249
10°	483188	708676	981606
15°	204357	397682	785711
20°	104322	187014	543296
25°	57757	95645	331137
30°	32358	53152	180590
35°	18731	32162	91969
40°	13911	24345	50943
45°	12280	16536	30211
50°	12971	10899	16118
55°	9290	7569	8688
60°	6019	5328	5328
65°	4786	4786	4786
70°	3895	3895	3895
75°	3812	3812	3812
80°	3978	3978	3978
85°	3962	3962	3962

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 30211 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.2	27.6
10°-20°	244.9	39.1
20°-30°	126.1	20.1
30°-40°	46.4	7.4
40°-50°	20.4	3.3
50°-60°	8.9	1.4
60°-70°	3.9	0.6
70°-80°	2.0	0.3
80°-90°	0.6	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°	544.2	86.9
0°-40°	590.6	94.3
0°-60°	619.9	99.0
0°-90°	626.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	626.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2222	2222	2222	2222	2222	
5°	1794	1855	2016	2158	2220	144
15°	400	465	779	1299	1538	122
25°	106	119	176	404	608	51
35°	31	36	53	93	153	21
45°	18	20	24	28	43	14
55°	11	10	9	10	10	10
65°	4	4	4	3	4	4
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°	2222.3	2222.3	2222.3	2222.3	2222.3
2.5°	2095.2	2120.2	2166.9	2211.5	2229.7
5°	1794.5	1855.3	2015.5	2158.1	2219.6
7.5°	1389.6	1489.6	1749.2	2016.2	2125.6
10°	964.5	1065.9	1414.6	1798.5	1959.4
12.5°	615.1	713.7	1090.2	1557.2	1766.1
15°	400.1	465.0	778.6	1299.0	1538.3
17.5°	277.8	323.7	529.9	1025.3	1286.2
20°	198.7	231.2	356.2	782.0	1034.8
22.5°	144.0	166.3	247.4	571.1	804.3
25°	106.1	119.0	175.7	403.5	608.3
27.5°	78.4	86.5	127.1	278.5	444.7
30°	56.8	63.5	93.3	191.3	317.0
32.5°	41.2	47.3	69.6	132.5	221.0
35°	31.1	35.8	53.4	93.3	152.7
37.5°	25.7	28.4	43.9	67.6	108.1
40°	21.6	24.3	37.8	50.0	79.1
42.5°	18.9	22.3	31.1	37.2	59.5
45°	17.6	20.3	23.7	28.4	43.3
47.5°	17.6	16.9	18.2	21.6	30.4
50°	16.9	14.2	14.2	16.9	21.0
52.5°	14.2	11.5	11.5	12.2	14.2
55°	10.8	9.5	8.8	9.5	10.1
57.5°	8.1	8.1	7.4	6.8	7.4
60°	6.1	6.1	5.4	5.4	5.4
62.5°	4.7	4.7	4.7	4.1	4.7
65°	4.1	4.1	4.1	3.4	4.1
67.5°	3.4	3.4	2.7	3.4	3.4
70°	2.7	2.7	2.7	2.7	2.7
72.5°	2.0	2.0	2.0	2.0	2.0
75°	2.0	2.0	2.0	2.0	2.0
77.5°	1.4	1.4	1.4	1.4	1.4
80°	1.4	1.4	1.4	1.4	1.4
82.5°	0.7	0.7	0.7	0.7	0.7
85°	0.7	0.7	0.7	0.7	0.7
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)