

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: P1178821

Luminaire Tested: LDA2B109024R2040D010 2LBDC1MW

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1178821
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: LDA2B109024R2040D010 2LBDC1MW
Description: 1000 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 2400K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

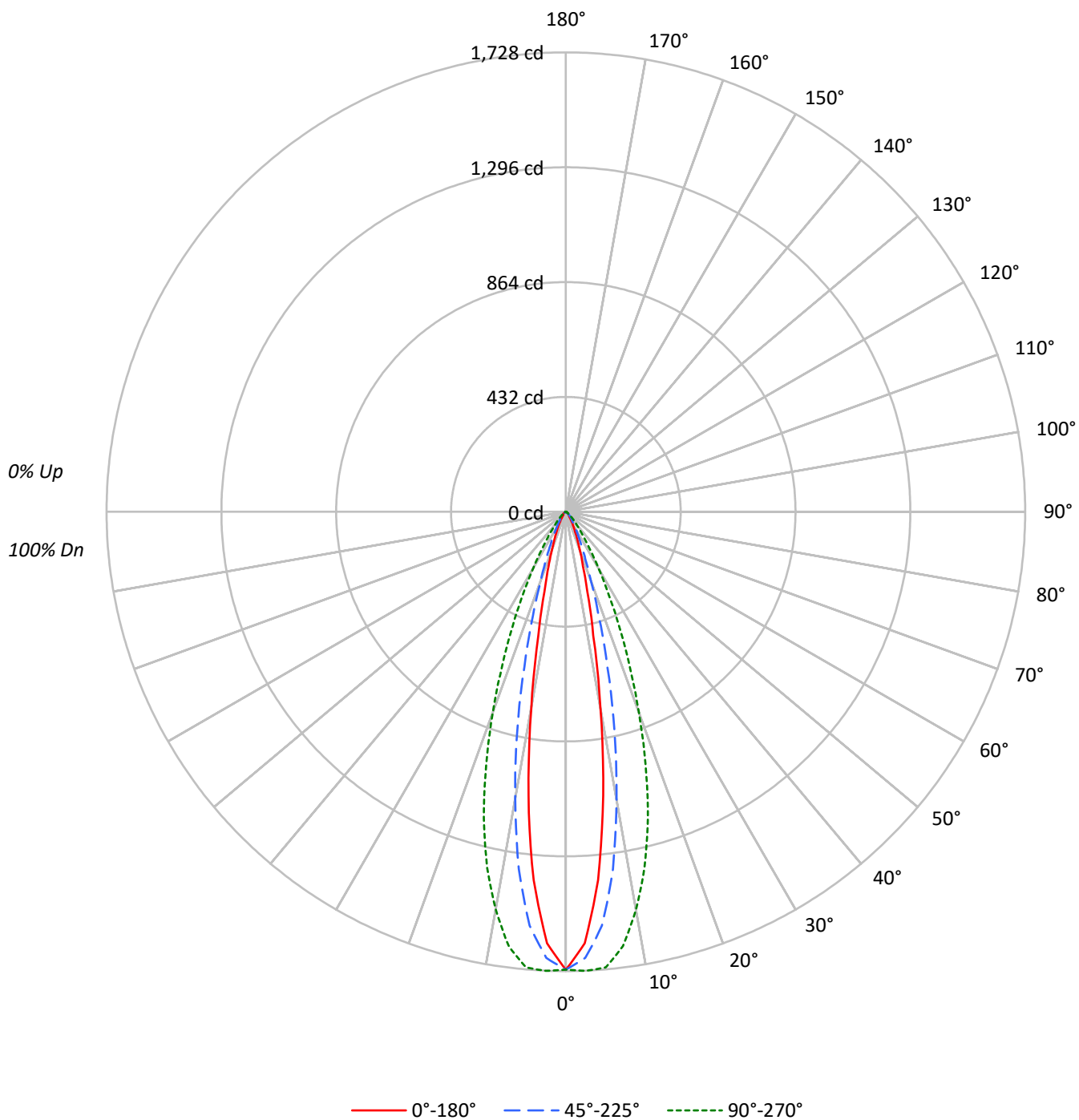
Lumens per Lamp: N/A
Luminaire Lumens: 485.5 lumens
Efficiency: N/A
Efficacy: 48.5 lumens/watt
Spacing Criteria (0/90/45): 0.31 / 0.63 / 0.43
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 10
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	100	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	96	91	88	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	95	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°	849914	849914	849914
5°	688888	773773	852121
10°	374577	549367	760927
15°	158440	308298	609088
20°	80854	144959	421122
25°	44801	74142	256668
30°	25066	41188	139972
35°	14515	24935	71310
40°	10820	18870	39480
45°	9489	12768	23374
50°	10055	8443	12434
55°	7225	5849	6795
60°	4638	4144	4144
65°	3619	3619	3619
70°	3029	3029	3029
75°	3050	3050	3050
80°	2841	2841	2841
85°	2830	2830	2830

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 23374 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.2	27.6
10°-20°	189.8	39.1
20°-30°	97.8	20.1
30°-40°	36.0	7.4
40°-50°	15.8	3.3
50°-60°	6.9	1.4
60°-70°	3.0	0.6
70°-80°	1.5	0.3
80°-90°	0.4	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°	421.8	86.9
0°-40°	457.8	94.3
0°-60°	480.5	99.0
0°-90°	485.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	485.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1723	1723	1723	1723	1723	
5°	1391	1438	1562	1673	1721	112
15°	310	360	604	1007	1192	95
25°	82	92	136	313	472	39
35°	24	28	41	72	118	16
45°	14	16	18	22	34	11
55°	8	7	7	7	8	8
65°	3	3	3	3	3	3
75°	2	2	2	2	2	2
85°	0	0	0	0	0	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1722.7	1722.7	1722.7	1722.7	1722.7
2.5°	1624.2	1643.6	1679.7	1714.3	1728.5
5°	1391.0	1438.2	1562.4	1672.9	1720.6
7.5°	1077.2	1154.8	1355.9	1562.9	1647.8
10°	747.7	826.2	1096.6	1394.2	1518.9
12.5°	476.8	553.3	845.1	1207.1	1369.0
15°	310.2	360.5	603.6	1007.0	1192.5
17.5°	215.3	251.0	410.8	794.8	997.0
20°	154.0	179.2	276.1	606.2	802.1
22.5°	111.6	128.9	191.8	442.7	623.5
25°	82.3	92.2	136.2	312.8	471.5
27.5°	60.8	67.1	98.5	215.9	344.7
30°	44.0	49.2	72.3	148.3	245.7
32.5°	32.0	36.7	54.0	102.7	171.3
35°	24.1	27.8	41.4	72.3	118.4
37.5°	19.9	22.0	34.1	52.4	83.8
40°	16.8	18.9	29.3	38.8	61.3
42.5°	14.7	17.3	24.1	28.8	46.1
45°	13.6	15.7	18.3	22.0	33.5
47.5°	13.6	13.1	14.1	16.8	23.6
50°	13.1	11.0	11.0	13.1	16.2
52.5°	11.0	8.9	8.9	9.4	11.0
55°	8.4	7.3	6.8	7.3	7.9
57.5°	6.3	6.3	5.8	5.2	5.8
60°	4.7	4.7	4.2	4.2	4.2
62.5°	3.7	3.7	3.7	3.1	3.7
65°	3.1	3.1	3.1	2.6	3.1
67.5°	2.6	2.6	2.1	2.6	2.6
70°	2.1	2.1	2.1	2.1	2.1
72.5°	1.6	1.6	1.6	1.6	1.6
75°	1.6	1.6	1.6	1.6	1.6
77.5°	1.0	1.0	1.0	1.0	1.0
80°	1.0	1.0	1.0	1.0	1.0
82.5°	0.5	0.5	0.5	0.5	0.5
85°	0.5	0.5	0.5	0.5	0.5
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)