

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: P1178818

Luminaire Tested: LDA2B109024R2040D010 2LBD1WMH

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1178818
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 2LBD1WMH
Description: 1000 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 2400K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

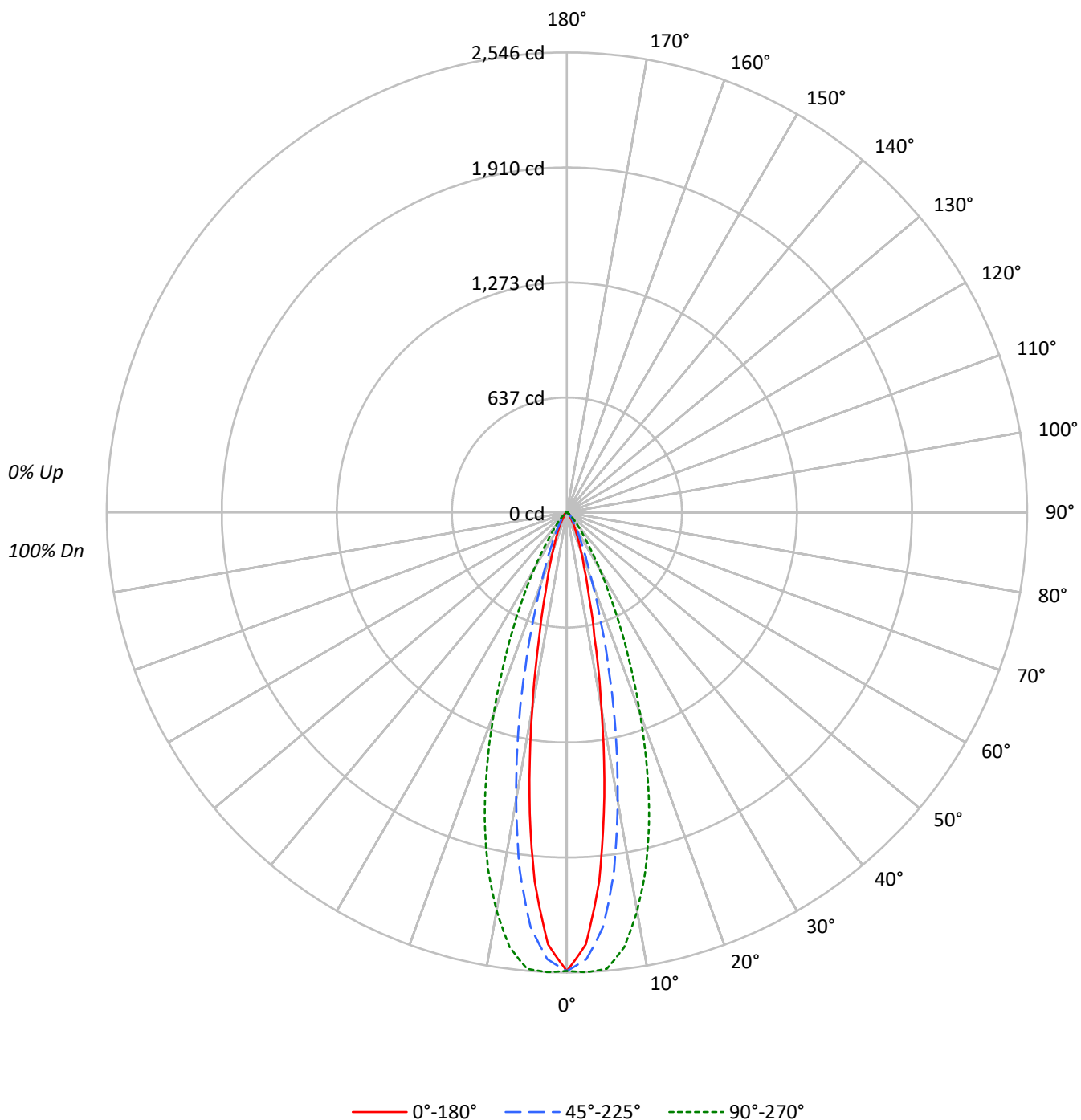
Lumens per Lamp: N/A
Luminaire Lumens: 715.2 lumens
Efficiency: N/A
Efficacy: 71.5 lumens/watt
Spacing Criteria (0/90/45): 0.31 / 0.63 / 0.43
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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			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	88	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	83	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°	1252004	1252004	1252004
5°	1014809	1139809	1255251
10°	551771	809271	1120926
15°	233369	454122	897211
20°	119128	213528	620369
25°	65977	109254	378116
30°	36916	60671	206226
35°	21381	36739	105038
40°	15908	27822	58157
45°	14024	18838	34467
50°	14813	12434	18344
55°	10580	8602	9978
60°	6808	6118	6118
65°	5370	5370	5370
70°	4472	4472	4472
75°	4384	4384	4384
80°	4262	4262	4262
85°	4529	4529	4529

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 34467 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.7	27.6
10°-20°	279.6	39.1
20°-30°	144.0	20.1
30°-40°	53.0	7.4
40°-50°	23.3	3.3
50°-60°	10.2	1.4
60°-70°	4.5	0.6
70°-80°	2.2	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°	621.4	86.9
0°-40°	674.4	94.3
0°-60°	707.9	99.0
0°-90°	715.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	715.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2538	2538	2538	2538	2538	
5°	2049	2119	2302	2464	2535	165
15°	457	531	889	1483	1757	140
25°	121	136	201	461	695	58
35°	36	41	61	106	174	24
45°	20	23	27	32	49	16
55°	12	11	10	11	12	11
65°	5	5	5	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°	2537.7	2537.7	2537.7	2537.7	2537.7
2.5°	2392.6	2421.1	2474.4	2525.3	2546.2
5°	2049.1	2118.6	2301.5	2464.4	2534.6
7.5°	1586.8	1701.1	1997.4	2302.3	2427.3
10°	1101.4	1217.1	1615.4	2053.8	2237.5
12.5°	702.3	815.0	1244.9	1778.2	2016.7
15°	456.9	531.0	889.1	1483.4	1756.6
17.5°	317.2	369.7	605.1	1170.8	1468.7
20°	226.9	264.0	406.7	893.0	1181.6
22.5°	164.4	189.9	282.5	652.2	918.4
25°	121.2	135.8	200.7	460.8	694.6
27.5°	89.5	98.8	145.1	318.0	507.8
30°	64.8	72.5	106.5	218.4	362.0
32.5°	47.1	54.0	79.5	151.3	252.4
35°	35.5	40.9	61.0	106.5	174.4
37.5°	29.3	32.4	50.2	77.2	123.5
40°	24.7	27.8	43.2	57.1	90.3
42.5°	21.6	25.5	35.5	42.4	67.9
45°	20.1	23.2	27.0	32.4	49.4
47.5°	20.1	19.3	20.8	24.7	34.7
50°	19.3	16.2	16.2	19.3	23.9
52.5°	16.2	13.1	13.1	13.9	16.2
55°	12.3	10.8	10.0	10.8	11.6
57.5°	9.3	9.3	8.5	7.7	8.5
60°	6.9	6.9	6.2	6.2	6.2
62.5°	5.4	5.4	5.4	4.6	5.4
65°	4.6	4.6	4.6	3.9	4.6
67.5°	3.9	3.9	3.1	3.9	3.9
70°	3.1	3.1	3.1	3.1	3.1
72.5°	2.3	2.3	2.3	2.3	2.3
75°	2.3	2.3	2.3	2.3	2.3
77.5°	1.5	1.5	1.5	1.5	1.5
80°	1.5	1.5	1.5	1.5	1.5
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)