

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: P1178832

Luminaire Tested: LDA2B109024R2050D010 2LBDC1MB

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1178832
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: LDA2B109024R2050D010 2LBDC1MB
Description: 1000 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 2400K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

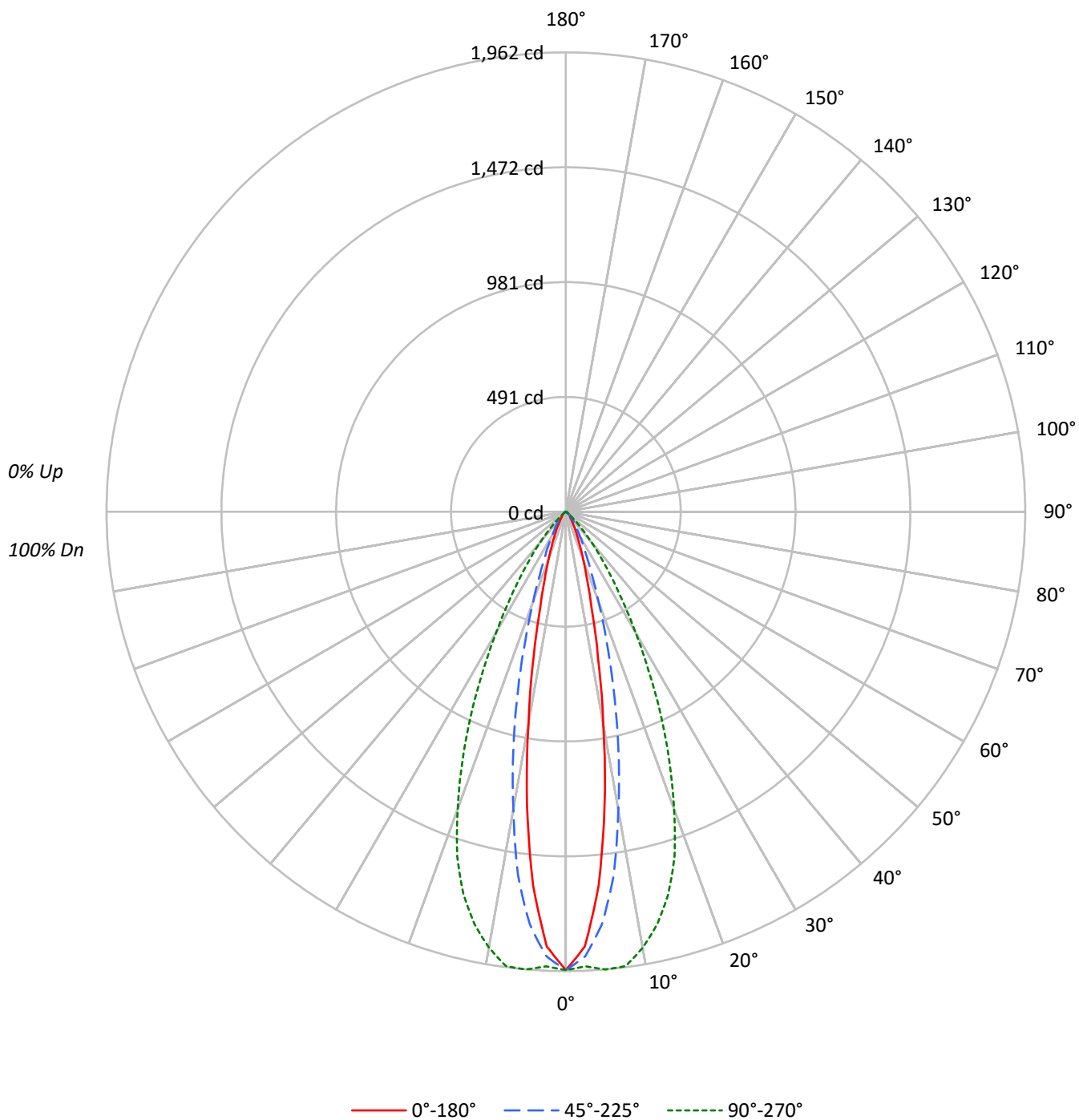
Lumens per Lamp: N/A
Luminaire Lumens: 703.5 lumens
Efficiency: N/A
Efficacy: 70.4 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.8 / 0.47
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	965608	965608	965608
5°	793880	875942	971723
10°	460845	647257	947389
15°	214675	403147	863347
20°	113143	212530	709623
25°	62656	115079	523406
30°	36745	67394	338507
35°	23610	45231	200560
40°	18419	30463	111419
45°	15978	18210	49538
50°	14430	12511	18191
55°	9806	9118	8429
60°	7203	6414	6414
65°	5720	4786	5720
70°	4760	4760	4760
75°	4575	4575	4575
80°	4546	4546	4546
85°	4529	4529	4529

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 49538 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.8	22.2
10°-20°	255.2	36.3
20°-30°	170.2	24.2
30°-40°	76.7	10.9
40°-50°	28.1	4.0
50°-60°	9.8	1.4
60°-70°	4.6	0.7
70°-80°	2.4	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°	581.2	82.6
0°-40°	657.9	93.5
0°-60°	695.9	98.9
0°-90°	703.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	703.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1957	1957	1957	1957	1957	
5°	1603	1653	1769	1898	1962	131
15°	420	494	789	1334	1690	126
25°	115	134	211	576	962	56
35°	39	44	75	162	333	26
45°	23	23	26	41	71	18
55°	11	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°	1957.2	1957.2	1957.2	1957.2	1957.2
2.5°	1858.5	1878.1	1900.9	1924.6	1943.4
5°	1603.0	1652.8	1768.7	1897.7	1962.1
7.5°	1267.5	1341.0	1566.3	1820.9	1957.2
10°	919.9	1013.7	1292.0	1687.9	1891.1
12.5°	632.6	720.7	1036.6	1519.8	1803.8
15°	420.3	493.8	789.3	1333.7	1690.3
17.5°	296.3	346.1	573.8	1130.4	1544.2
20°	215.5	248.9	404.8	931.3	1351.6
22.5°	156.7	182.0	288.1	744.4	1156.5
25°	115.1	133.9	211.4	576.2	961.5
27.5°	85.7	100.4	158.3	437.5	766.4
30°	64.5	76.7	118.3	322.4	594.2
32.5°	49.8	57.9	90.6	230.2	449.7
35°	39.2	44.1	75.1	162.4	333.0
37.5°	32.6	35.9	62.0	113.5	244.0
40°	28.6	31.0	47.3	80.8	173.0
42.5°	25.3	26.9	34.3	57.9	112.6
45°	22.9	22.9	26.1	40.8	71.0
47.5°	21.2	18.8	20.4	28.6	41.6
50°	18.8	15.5	16.3	19.6	23.7
52.5°	14.7	13.1	13.1	13.1	13.9
55°	11.4	10.6	10.6	9.0	9.8
57.5°	9.0	9.0	8.2	7.3	8.2
60°	7.3	7.3	6.5	5.7	6.5
62.5°	5.7	5.7	4.9	4.9	5.7
65°	4.9	4.9	4.1	4.1	4.9
67.5°	4.1	4.1	4.1	3.3	4.1
70°	3.3	3.3	3.3	3.3	3.3
72.5°	2.4	2.4	3.3	2.4	2.4
75°	2.4	2.4	2.4	2.4	2.4
77.5°	1.6	1.6	1.6	1.6	1.6
80°	1.6	1.6	1.6	1.6	1.6
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)