

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: P1178996

Luminaire Tested: LDA2B109040R2060D010 2LBD1MMS

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1178996
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2010-034-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/17/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDA2B109040R2060D010 2LBD1MMS
Description: 1000 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

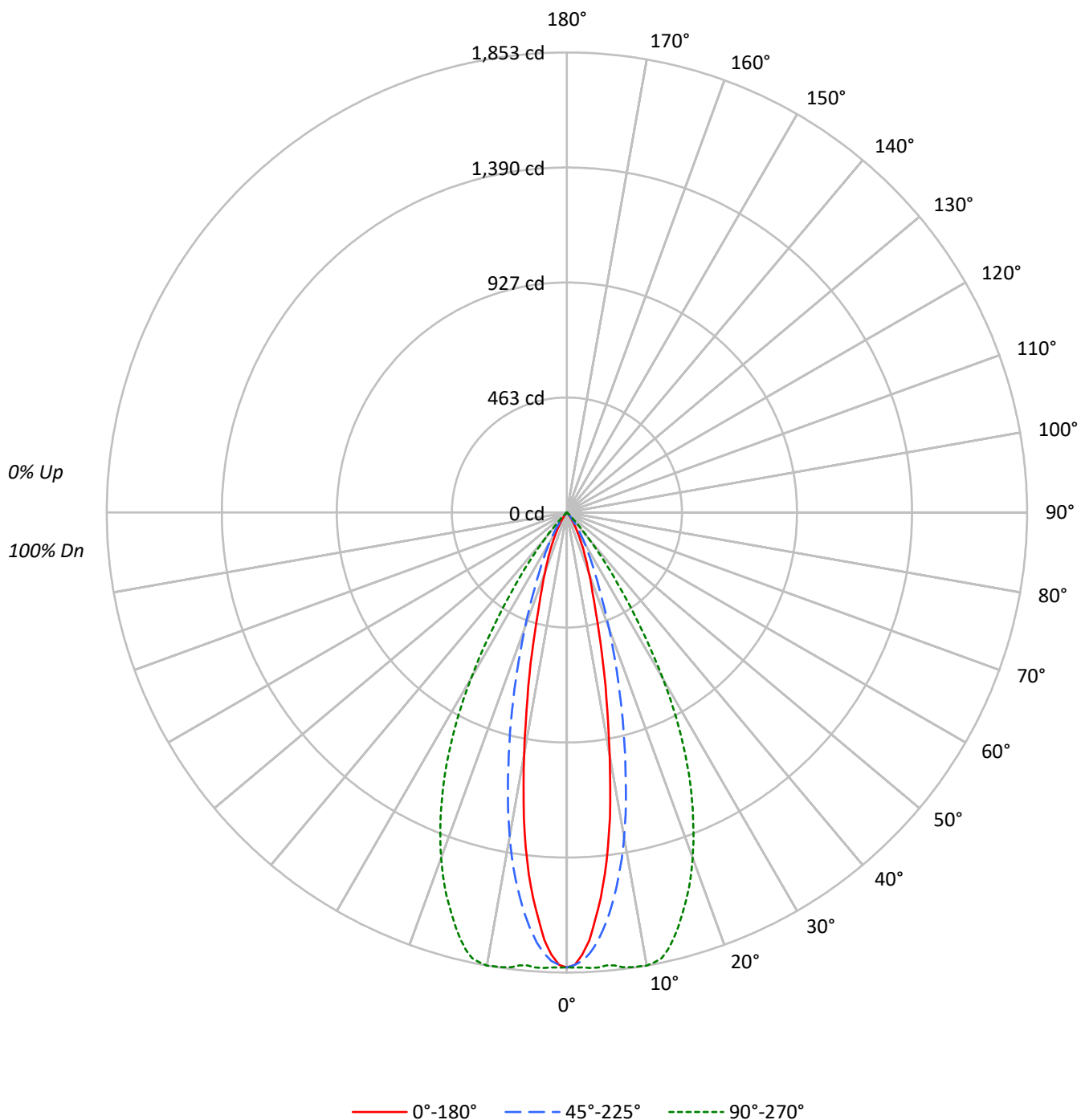
Lumens per Lamp: N/A
Luminaire Lumens: 730.0 lumens
Efficiency: N/A
Efficacy: 73.0 lumens/watt
Spacing Criteria (0/90/45): 0.36 / 0.9 / 0.52
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	100
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	97	97	95
2	110	106	102	99	108	104	101	98	101	98	96	98	96	94	95	93	92	92	92	90
3	105	100	96	92	103	99	95	92	96	93	90	94	91	89	91	89	87	87	87	86
4	101	95	90	87	99	94	89	86	92	88	85	90	87	84	88	85	83	83	83	82
5	97	90	85	82	96	89	85	81	88	84	81	86	83	80	85	82	79	79	79	78
6	93	86	81	77	92	85	81	77	84	80	77	82	79	76	81	78	76	76	76	74
7	90	82	77	74	89	81	77	73	80	76	73	79	75	73	78	75	72	72	72	71
8	86	79	74	70	85	78	73	70	77	73	70	76	72	69	75	72	69	69	69	68
9	83	75	70	67	82	75	70	67	74	70	67	73	69	66	72	69	66	66	66	65
10	80	72	67	64	79	72	67	64	71	67	64	70	66	64	70	66	64	64	64	62

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	904184	904184	904184
5°	772139	834589	906747
10°	497115	665342	928403
15°	255025	443753	883471
20°	136191	259310	777036
25°	75939	142188	632062
30°	40505	80952	440310
35°	17647	39088	229530
40°	5152	11464	86945
45°	1256	3070	13047
50°	691	691	1382
55°	774	774	774
60°	0	888	888
65°	0	1051	1051
70°	0	1298	1298
75°	0	1716	1716
80°	0	2557	2557
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 13047 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.3	20.7
10°-20°	275.4	37.7
20°-30°	208.7	28.6
30°-40°	83.5	11.4
40°-50°	8.5	1.2
50°-60°	0.9	0.1
60°-70°	0.8	0.1
70°-80°	0.8	0.1
80°-90°	0.2	0.0
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°	635.4	87.0
0°-40°	718.9	98.5
0°-60°	728.2	99.8
0°-90°	730.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	730.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1833	1833	1833	1833	1833	
5°	1559	1594	1685	1783	1831	131
15°	499	579	869	1430	1730	143
25°	140	163	261	746	1161	66
35°	29	36	65	197	381	20
45°	2	3	4	9	19	2
55°	1	1	1	1	1	0
65°	0	1	1	1	1	0
75°	0	1	1	1	1	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1832.7	1832.7	1832.7	1832.7	1832.7
1°	1822.9	1823.8	1822.1	1824.7	1833.6
2°	1782.1	1795.4	1807.0	1818.5	1833.6
3°	1725.2	1741.2	1777.6	1814.1	1837.2
4°	1641.7	1674.6	1736.8	1803.4	1837.2
5°	1559.1	1593.7	1685.2	1783.0	1830.9
6°	1464.9	1514.7	1625.7	1763.4	1834.5
7°	1358.3	1419.6	1560.0	1751.0	1845.2
8°	1242.8	1312.1	1488.0	1724.3	1849.6
9°	1114.9	1199.3	1411.6	1692.4	1851.4
10°	992.3	1081.2	1328.1	1655.9	1853.2
11°	869.7	962.1	1237.5	1620.4	1846.0
12°	765.8	853.7	1142.5	1583.1	1835.4
13°	669.8	755.1	1048.3	1538.7	1807.8
14°	581.0	664.5	957.7	1487.1	1771.4
15°	499.3	579.2	868.8	1430.3	1729.7
16°	425.5	500.2	783.5	1367.2	1683.5
17°	372.2	431.8	703.6	1300.6	1638.2
18°	330.5	374.9	628.1	1234.8	1590.2
19°	293.2	328.7	557.9	1166.4	1536.9
20°	259.4	291.4	493.9	1095.4	1480.0
21°	231.0	258.5	434.4	1025.2	1422.3
22°	206.1	230.1	381.1	955.9	1359.2
23°	183.0	204.3	335.8	885.7	1296.1
24°	160.8	183.9	295.8	814.6	1230.4
25°	139.5	162.6	261.2	746.2	1161.1
26°	122.6	143.9	231.9	679.6	1089.1
27°	105.7	127.9	206.1	615.6	1016.3
28°	92.4	112.8	183.0	554.3	937.2
29°	80.0	99.5	161.7	493.9	856.4
30°	71.1	86.2	142.1	437.1	772.9
32.5°	48.9	57.7	99.5	307.4	564.1
35°	29.3	36.4	64.9	197.2	381.1
37.5°	16.0	19.5	37.3	118.2	239.9
40°	8.0	9.8	17.8	57.7	135.0
42.5°	3.6	4.4	8.0	22.2	57.7
45°	1.8	2.7	4.4	8.9	18.7
47.5°	0.9	1.8	1.8	3.6	5.3
50°	0.9	0.9	0.9	1.8	1.8
52.5°	0.9	0.9	0.9	1.8	1.8
55°	0.9	0.9	0.9	0.9	0.9
57.5°	0.0	0.9	0.9	0.9	0.9
60°	0.0	0.9	0.9	0.9	0.9
62.5°	0.0	0.9	0.9	0.9	0.9
65°	0.0	0.9	0.9	0.9	0.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	0.0	0.9	0.9	0.9	0.9
70°	0.0	0.9	0.9	0.9	0.9
72.5°	0.0	0.9	0.9	0.9	0.9
75°	0.0	0.9	0.9	0.9	0.9
77.5°	0.0	0.9	0.9	0.9	0.9
80°	0.0	0.0	0.9	0.9	0.9
82.5°	0.0	0.0	0.9	0.9	0.9
85°	0.0	0.0	0.0	0.0	0.0
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)