

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: IRiS

Report Number: P1336801

Luminaire Tested: P3A05R209027DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1336801
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-60)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A05R209027DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R20 optic, 2700K CCT AND, 90CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

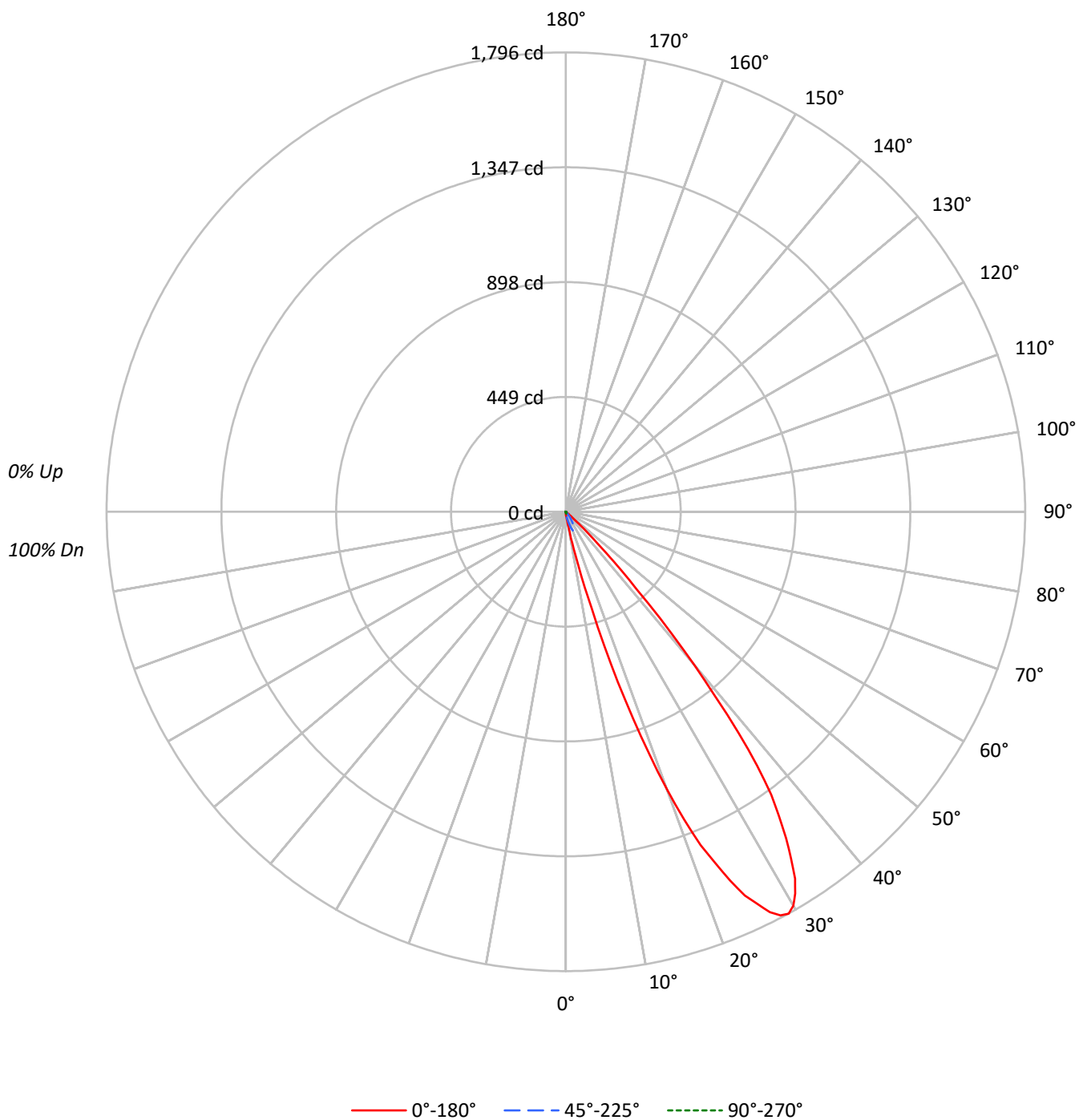
Lumens per Lamp: N/A
Luminaire Lumens: 252.0 lumens
Efficiency: N/A
Efficacy: 35.0 lumens/watt
Spacing Criteria (0/90/45): 2.29 / 0.53 / 1.19
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 7.2
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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77
4	93	84	78	73	91	83	77	72	81	76	71	79	74	71	77	73	70
5	87	77	70	65	85	76	70	65	74	69	64	72	68	64	71	67	63
6	81	71	64	59	80	70	63	58	68	62	58	67	62	58	65	61	57
7	76	65	58	53	74	64	57	53	63	57	52	62	56	52	60	55	52
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	51	46	43
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	1908	1908	1908	1908	1908
5°	4380	3280	1805	1101	947
10°	13805	5700	1470	601	468
15°	89376	10534	1090	204	45
20°	269733	18038	747	0	0
25°	400596	18195	436	0	0
30°	450474	13825	177	0	0
35°	388689	8272	134	0	0
40°	223819	2805	0	0	0
45°	54579	1147	62	0	62
50°	6550	307	68	68	239
55°	879	0	191	191	344
60°	88	0	307	307	482
65°	104	104	467	467	726
70°	128	128	577	577	705
75°	0	169	763	593	763
80°	0	253	884	631	884
85°	0	503	1761	503	503

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°

Vertical Angle: 45°

Luminance: 54951 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.2	0.5
10°-20°	23.4	9.3
20°-30°	101.8	40.4
30°-40°	102.5	40.7
40°-50°	20.6	8.2
50°-60°	1.0	0.4
60°-70°	0.7	0.3
70°-80°	0.6	0.2
80°-90°	0.3	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°	126.3	50.1
0°-40°	228.8	90.8
0°-60°	250.4	99.4
0°-90°	252.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	252.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	9	9	9	9	9	
5°	20	15	8	5	4	3
15°	394	46	5	1	0	154
25°	1656	75	2	0	0	747
35°	1452	31	0	0	0	864
45°	176	4	0	0	0	192
55°	2	0	0	0	1	4
65°	0	0	1	1	1	0
75°	0	0	1	1	1	0
85°	0	0	1	0	0	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7
2.5°	13.0	13.0	12.8	12.8	12.6	12.8	12.3	12.6	12.6	12.3	11.2
5°	19.9	20.3	20.1	20.1	19.9	20.1	19.7	19.2	18.7	18.7	14.9
7.5°	32.7	32.5	32.0	32.2	31.6	31.1	30.6	30.4	29.0	28.3	19.4
10°	62.0	63.3	62.2	62.0	57.8	57.6	54.9	51.0	47.6	45.7	25.6
12.5°	170.6	177.9	166.4	161.0	157.8	145.4	140.1	126.7	113.6	103.8	32.5
15°	393.7	411.8	388.7	390.3	371.1	335.8	305.0	278.5	247.1	215.6	46.4
17.5°	771.4	756.7	744.2	722.9	683.8	632.1	565.6	498.2	439.9	378.8	64.7
20°	1155.9	1142.9	1114.3	1067.9	1018.1	941.5	862.4	761.1	663.0	571.1	77.3
21°	1288.3	1284.0	1237.1	1208.5	1131.7	1058.5	967.3	858.9	748.5	639.7	79.3
22°	1406.5	1380.4	1355.3	1313.0	1236.6	1157.1	1055.6	941.5	821.7	700.7	79.6
23°	1488.3	1476.5	1452.7	1404.9	1329.0	1235.5	1128.5	1009.1	882.9	743.9	78.9
24°	1578.9	1563.8	1529.0	1473.3	1396.7	1304.3	1182.2	1063.8	926.6	780.3	77.0
25°	1655.7	1632.1	1591.0	1530.9	1447.2	1351.9	1229.1	1099.0	957.0	804.8	75.2
26°	1705.5	1692.7	1639.9	1574.5	1484.9	1386.6	1261.3	1126.0	976.7	816.0	72.2
27°	1757.4	1733.9	1682.0	1606.8	1509.6	1409.2	1279.6	1139.0	983.5	816.4	68.6
28°	1787.2	1761.5	1702.8	1623.7	1525.6	1421.8	1290.1	1143.1	982.2	809.3	64.2
29°	1796.5	1764.3	1706.9	1626.4	1529.5	1422.7	1288.5	1137.2	970.1	792.0	59.2
30°	1779.1	1746.2	1691.8	1613.4	1517.1	1411.3	1273.7	1117.5	948.6	767.0	54.6
31°	1741.2	1713.3	1660.7	1582.1	1489.7	1384.5	1240.1	1085.3	912.0	733.7	49.4
32°	1691.1	1663.7	1612.0	1540.9	1447.0	1340.9	1194.1	1035.0	869.0	683.8	44.1
33°	1615.9	1600.1	1553.7	1485.8	1391.9	1278.5	1132.4	974.9	807.7	628.5	39.6
34°	1539.8	1519.9	1487.4	1413.1	1312.1	1198.9	1051.9	891.9	733.0	566.5	35.2
35°	1452.0	1440.1	1389.1	1329.7	1228.2	1112.5	966.4	811.2	645.9	497.5	30.9
36°	1366.9	1348.7	1290.6	1227.7	1129.2	1004.1	859.9	714.0	570.6	432.8	26.3
37°	1243.5	1215.6	1174.2	1107.9	992.7	886.1	754.5	619.1	478.1	362.8	21.3
38°	1098.3	1085.3	1027.9	961.1	865.8	764.7	634.4	519.7	394.4	302.9	16.2
39°	927.1	926.8	872.0	823.7	730.5	639.5	521.9	421.8	325.6	243.9	12.6
40°	781.9	754.9	721.1	660.5	588.9	511.7	408.8	330.1	252.6	196.6	9.8
42.5°	409.9	407.6	387.7	342.2	302.2	256.7	204.2	170.1	133.1	108.4	6.2
45°	176.0	177.2	163.5	156.6	141.1	122.1	103.1	86.0	73.6	59.7	3.7
47.5°	44.6	42.8	42.3	43.9	43.9	42.5	38.2	35.9	33.2	30.4	2.1
50°	19.2	18.7	18.3	18.3	17.1	16.5	15.3	13.9	12.8	11.4	0.9
52.5°	7.1	7.3	7.5	7.3	7.3	7.1	7.1	6.9	6.2	5.5	0.5
55°	2.3	2.3	2.3	2.5	2.5	2.7	2.7	2.7	2.7	2.5	0.0
57.5°	0.5	0.5	0.7	0.7	0.7	0.7	0.7	0.7	0.9	0.9	0.0
60°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0
62.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
65°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
67.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
70°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
72.5°	0.2	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
75°	0.0	0.0	0.0	0.2	0.0	0.2	0.2	0.0	0.2	0.2	0.2
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2



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CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	8.7	8.7	8.7	8.7	8.7	8.7
2.5°	10.1	8.9	7.5	6.4	6.2	5.9
5°	11.2	8.2	6.2	5.0	4.6	4.3
7.5°	12.1	7.5	5.0	3.7	3.2	3.0
10°	12.6	6.6	4.1	2.7	2.1	2.1
12.5°	12.8	5.7	3.0	1.8	1.1	1.1
15°	12.6	4.8	2.3	0.9	0.2	0.2
17.5°	11.4	3.9	1.4	0.2	0.0	0.0
20°	9.8	3.2	0.9	0.0	0.0	0.0
21°	9.4	2.7	0.7	0.0	0.0	0.0
22°	8.7	2.5	0.5	0.0	0.0	0.0
23°	8.0	2.3	0.5	0.0	0.0	0.0
24°	7.3	2.1	0.2	0.0	0.0	0.0
25°	6.9	1.8	0.2	0.0	0.0	0.0
26°	6.4	1.6	0.2	0.0	0.0	0.0
27°	5.7	1.4	0.0	0.0	0.0	0.0
28°	5.3	1.1	0.0	0.0	0.0	0.0
29°	4.6	0.9	0.0	0.0	0.0	0.0
30°	3.9	0.7	0.0	0.0	0.0	0.0
31°	3.2	0.7	0.0	0.0	0.0	0.0
32°	2.7	0.5	0.0	0.0	0.0	0.0
33°	2.3	0.5	0.0	0.0	0.0	0.0
34°	2.1	0.5	0.0	0.0	0.0	0.0
35°	1.8	0.5	0.0	0.0	0.0	0.0
36°	1.4	0.2	0.0	0.0	0.0	0.0
37°	1.1	0.2	0.0	0.0	0.0	0.0
38°	0.9	0.2	0.0	0.0	0.0	0.0
39°	0.7	0.0	0.0	0.0	0.0	0.0
40°	0.7	0.0	0.0	0.0	0.0	0.0
42.5°	0.2	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.2	0.0	0.0	0.2	0.2
47.5°	0.0	0.2	0.0	0.0	0.2	0.5
50°	0.0	0.2	0.2	0.2	0.5	0.7
52.5°	0.0	0.5	0.2	0.2	0.7	0.7
55°	0.2	0.5	0.2	0.5	0.9	0.9
57.5°	0.2	0.5	0.5	0.7	0.9	1.1
60°	0.5	0.7	0.7	0.7	1.1	1.1
62.5°	0.5	0.7	0.9	0.9	1.1	1.4
65°	0.5	0.9	0.9	0.9	1.1	1.4
67.5°	0.7	0.9	0.9	0.9	1.1	1.4
70°	0.7	0.9	0.9	0.9	1.1	1.1
72.5°	0.7	0.9	0.7	0.9	0.9	1.1
75°	0.7	0.9	0.7	0.7	0.9	0.9
77.5°	0.5	0.7	0.7	0.5	0.7	0.7
80°	0.5	0.7	0.5	0.5	0.7	0.7



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.5	0.7	0.5	0.2	0.5	0.5
85°	0.5	0.7	0.5	0.2	0.2	0.2
87.5°	0.5	0.7	0.5	0.2	0.0	0.2
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)