

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: P1340333

Luminaire Tested: P3A09R209024DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1340333
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: P3A09R209024DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R20 optic, 2400K CCT AND, 90CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

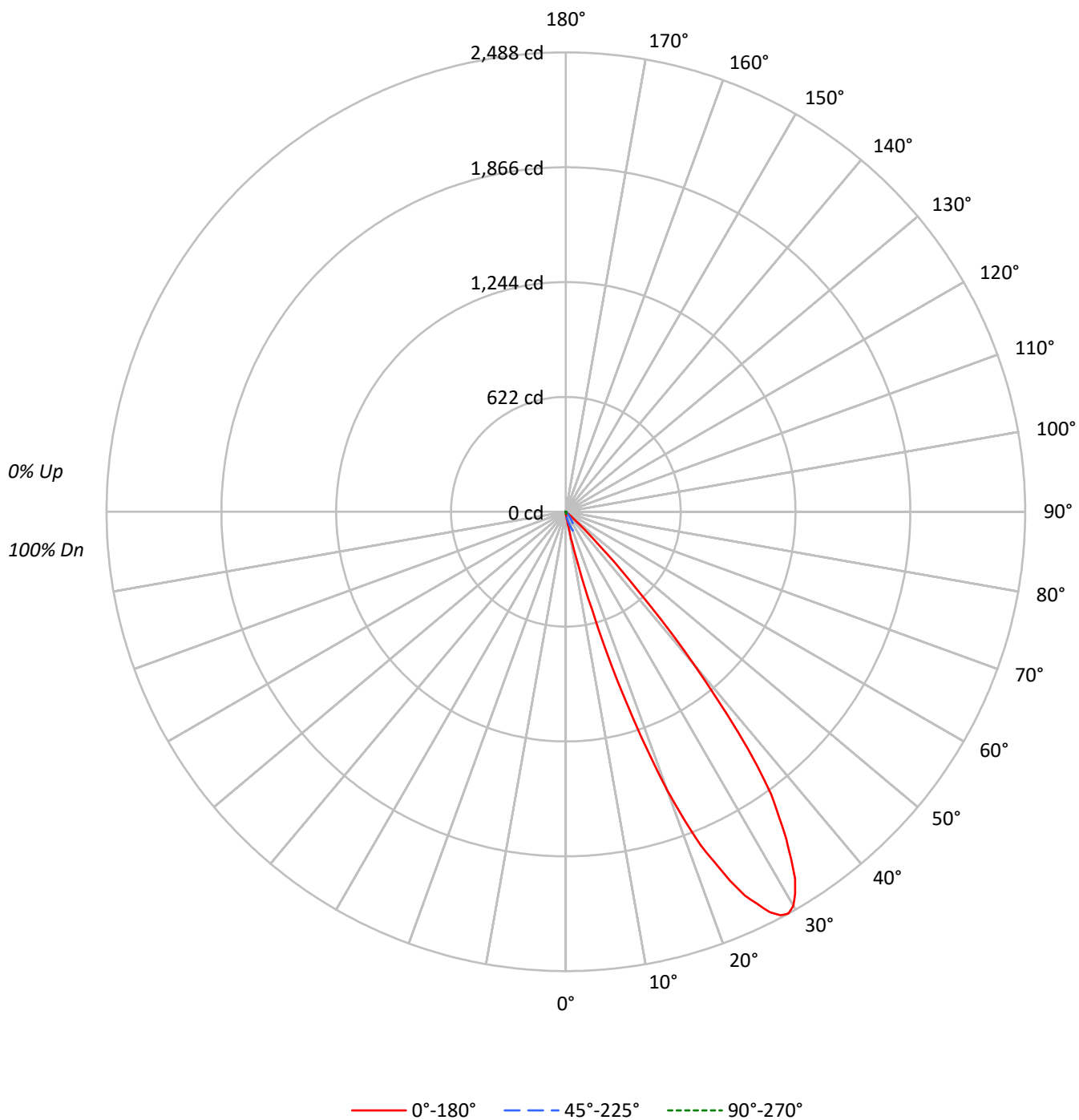
Lumens per Lamp: N/A
Luminaire Lumens: 348.9 lumens
Efficiency: N/A
Efficacy: 31.4 lumens/watt
Spacing Criteria (0/90/45): 2.3 / 0.53 / 1.19
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 11.1
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	113	109	107	104	110	107	105	102	103	101	99		99	98	96		96	95	93	92
2	106	100	96	92	104	99	94	91	95	92	89		92	89	87		89	87	85	83
3	99	92	86	81	97	90	85	81	88	83	79		85	81	78		83	80	77	75
4	93	84	78	73	91	83	77	72	81	76	71		79	74	71		77	73	70	68
5	87	77	70	65	85	76	70	65	74	69	64		72	68	64		71	67	63	61
6	81	71	64	59	80	70	63	58	68	62	58		67	62	58		65	61	57	55
7	76	65	58	53	74	64	57	53	63	57	52		62	56	52		60	55	52	50
8	71	60	53	48	70	59	52	48	58	52	47		57	51	47		56	51	47	45
9	66	55	48	43	65	54	48	43	53	47	43		52	47	43		51	46	43	41
10	62	51	44	39	61	50	44	39	49	43	39		48	43	39		48	42	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	2631	2631	2631	2631	2631
5°	6053	4534	2509	1541	1321
10°	19105	7905	2049	846	623
15°	123769	14597	1498	295	68
20°	373576	24969	1027	0	0
25°	554790	25211	605	0	0
30°	623893	19168	228	0	0
35°	538302	11430	161	0	0
40°	309981	3893	0	0	0
45°	75605	1582	93	0	93
50°	9074	443	102	102	307
55°	1223	0	229	229	497
60°	132	0	395	395	702
65°	156	156	675	675	986
70°	192	192	833	833	1026
75°	0	254	1101	763	1101
80°	0	379	1137	758	1137
85°	0	755	2264	755	755

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°

Vertical Angle: 45°

Luminance: 76101 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.6	0.5
10°-20°	32.3	9.3
20°-30°	141.0	40.4
30°-40°	142.0	40.7
40°-50°	28.5	8.2
50°-60°	1.4	0.4
60°-70°	0.9	0.3
70°-80°	0.8	0.2
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°	174.9	50.1
0°-40°	316.9	90.8
0°-60°	346.8	99.4
0°-90°	348.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	348.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	12	12	12	12	12	
5°	28	21	11	7	6	4
15°	545	64	7	1	0	214
25°	2293	104	2	0	0	1034
35°	2011	43	1	0	0	1196
45°	244	5	0	0	0	265
55°	3	0	1	1	1	6
65°	0	0	1	1	2	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°	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
2.5°	18.0	18.0	17.7	17.7	17.4	17.7	17.1	17.4	17.4	17.1	15.5
5°	27.5	28.2	27.9	27.9	27.5	27.9	27.2	26.6	26.0	26.0	20.6
7.5°	45.3	45.0	44.3	44.6	43.7	43.1	42.4	42.1	40.2	39.3	26.9
10°	85.8	87.7	86.1	85.8	80.1	79.8	76.0	70.6	65.9	63.3	35.5
12.5°	236.2	246.3	230.5	222.9	218.5	201.4	194.1	175.4	157.4	143.7	45.0
15°	545.2	570.2	538.3	540.5	513.9	465.1	422.4	385.7	342.3	298.6	64.3
17.5°	1068.3	1048.0	1030.6	1001.2	947.0	875.5	783.3	689.9	609.2	524.6	89.6
20°	1600.9	1582.8	1543.2	1479.0	1409.9	1303.9	1194.3	1054.0	918.2	790.9	107.0
21°	1784.2	1778.2	1713.3	1673.7	1567.3	1466.0	1339.6	1189.6	1036.6	885.9	109.9
22°	1947.9	1911.8	1877.0	1818.4	1712.6	1602.4	1461.9	1303.9	1138.0	970.5	110.2
23°	2061.2	2044.8	2011.8	1945.7	1840.5	1711.0	1562.9	1397.6	1222.8	1030.3	109.2
24°	2186.6	2165.7	2117.6	2040.3	1934.3	1806.3	1637.3	1473.3	1283.3	1080.6	106.7
25°	2293.0	2260.4	2203.4	2120.1	2004.2	1872.2	1702.2	1522.0	1325.4	1114.5	104.2
26°	2362.0	2344.3	2271.2	2180.6	2056.5	1920.3	1746.8	1559.4	1352.6	1130.0	100.1
27°	2433.9	2401.3	2329.4	2225.2	2090.7	1951.7	1772.2	1577.4	1362.1	1130.7	95.0
28°	2475.1	2439.6	2358.2	2248.7	2112.8	1969.1	1786.7	1583.1	1360.2	1120.9	89.0
29°	2488.0	2443.4	2363.9	2252.5	2118.2	1970.4	1784.5	1574.9	1343.4	1096.8	82.0
30°	2464.0	2418.4	2343.0	2234.4	2101.1	1954.5	1763.9	1547.7	1313.7	1062.3	75.7
31°	2411.4	2372.8	2300.0	2191.0	2063.1	1917.5	1717.4	1503.0	1263.0	1016.1	68.4
32°	2342.1	2304.1	2232.5	2134.1	2003.9	1857.0	1653.7	1433.4	1203.5	947.0	61.1
33°	2237.9	2216.1	2151.8	2057.8	1927.6	1770.6	1568.2	1350.1	1118.6	870.4	54.8
34°	2132.5	2104.9	2060.0	1957.1	1817.1	1660.4	1456.8	1235.2	1015.1	784.6	48.8
35°	2010.9	1994.4	1923.8	1841.5	1700.9	1540.7	1338.4	1123.4	894.5	689.0	42.7
36°	1893.1	1867.8	1787.4	1700.3	1563.8	1390.6	1190.8	988.8	790.3	599.4	36.4
37°	1722.1	1683.5	1626.2	1534.4	1374.8	1227.2	1044.9	857.4	662.1	502.5	29.4
38°	1521.1	1503.0	1423.5	1331.1	1199.1	1059.1	878.6	719.7	546.2	419.5	22.5
39°	1283.9	1283.6	1207.6	1140.8	1011.6	885.6	722.9	584.2	450.9	337.8	17.4
40°	1082.9	1045.5	998.6	914.7	815.6	708.6	566.1	457.2	349.9	272.3	13.6
42.5°	567.7	564.5	537.0	474.0	418.6	355.6	282.7	235.6	184.3	150.1	8.5
45°	243.8	245.4	226.4	216.9	195.4	169.1	142.8	119.1	102.0	82.6	5.1
47.5°	61.7	59.2	58.6	60.8	60.8	58.9	52.9	49.7	45.9	42.1	2.8
50°	26.6	26.0	25.3	25.3	23.7	22.8	21.2	19.3	17.7	15.8	1.3
52.5°	9.8	10.1	10.4	10.1	10.1	9.8	9.8	9.5	8.5	7.6	0.6
55°	3.2	3.2	3.2	3.5	3.5	3.8	3.8	3.8	3.8	3.5	0.0
57.5°	0.6	0.6	0.9	0.9	0.9	0.9	0.9	0.9	1.3	1.3	0.0
60°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0
62.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
65°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
67.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
70°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
72.5°	0.3	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
75°	0.0	0.0	0.0	0.3	0.0	0.3	0.3	0.0	0.3	0.3	0.3
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3



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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	0.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
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°	12.0	12.0	12.0	12.0	12.0	12.0
2.5°	13.9	12.3	10.4	8.9	8.5	8.2
5°	15.5	11.4	8.5	7.0	6.3	6.0
7.5°	16.8	10.4	7.0	5.1	4.4	4.1
10°	17.4	9.2	5.7	3.8	2.8	2.8
12.5°	17.7	7.9	4.1	2.5	1.6	1.6
15°	17.4	6.6	3.2	1.3	0.3	0.3
17.5°	15.8	5.4	1.9	0.3	0.0	0.0
20°	13.6	4.4	1.3	0.0	0.0	0.0
21°	13.0	3.8	0.9	0.0	0.0	0.0
22°	12.0	3.5	0.6	0.0	0.0	0.0
23°	11.1	3.2	0.6	0.0	0.0	0.0
24°	10.1	2.8	0.3	0.0	0.0	0.0
25°	9.5	2.5	0.3	0.0	0.0	0.0
26°	8.9	2.2	0.3	0.0	0.0	0.0
27°	7.9	1.9	0.0	0.0	0.0	0.0
28°	7.3	1.6	0.0	0.0	0.0	0.0
29°	6.3	1.3	0.0	0.0	0.0	0.0
30°	5.4	0.9	0.0	0.0	0.0	0.0
31°	4.4	0.9	0.0	0.0	0.0	0.0
32°	3.8	0.6	0.0	0.0	0.0	0.0
33°	3.2	0.6	0.0	0.0	0.0	0.0
34°	2.8	0.6	0.0	0.0	0.0	0.0
35°	2.5	0.6	0.0	0.0	0.0	0.0
36°	1.9	0.3	0.0	0.0	0.0	0.0
37°	1.6	0.3	0.0	0.0	0.0	0.0
38°	1.3	0.3	0.0	0.0	0.0	0.0
39°	0.9	0.0	0.0	0.0	0.0	0.0
40°	0.9	0.0	0.0	0.0	0.0	0.0
42.5°	0.3	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.3	0.0	0.0	0.3	0.3
47.5°	0.0	0.3	0.0	0.0	0.3	0.6
50°	0.0	0.3	0.3	0.3	0.6	0.9
52.5°	0.0	0.6	0.3	0.3	0.9	0.9
55°	0.3	0.6	0.3	0.6	1.3	1.3
57.5°	0.3	0.6	0.6	0.9	1.3	1.6
60°	0.6	0.9	0.9	0.9	1.6	1.6
62.5°	0.6	0.9	1.3	1.3	1.6	1.9
65°	0.6	1.3	1.3	1.3	1.6	1.9
67.5°	0.9	1.3	1.3	1.3	1.6	1.9
70°	0.9	1.3	1.3	1.3	1.6	1.6
72.5°	0.9	1.3	0.9	1.3	1.3	1.6
75°	0.9	1.3	0.9	0.9	1.3	1.3
77.5°	0.6	0.9	0.9	0.6	0.9	0.9
80°	0.6	0.9	0.6	0.6	0.9	0.9



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.6	0.9	0.6	0.3	0.6	0.6
85°	0.6	0.9	0.6	0.3	0.3	0.3
87.5°	0.6	0.9	0.6	0.3	0.0	0.3
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)