

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: P1340546

Luminaire Tested: P3A09R209840DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1340546
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: P3A09R209840DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R20 optic, 4000K CCT AND, 98CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

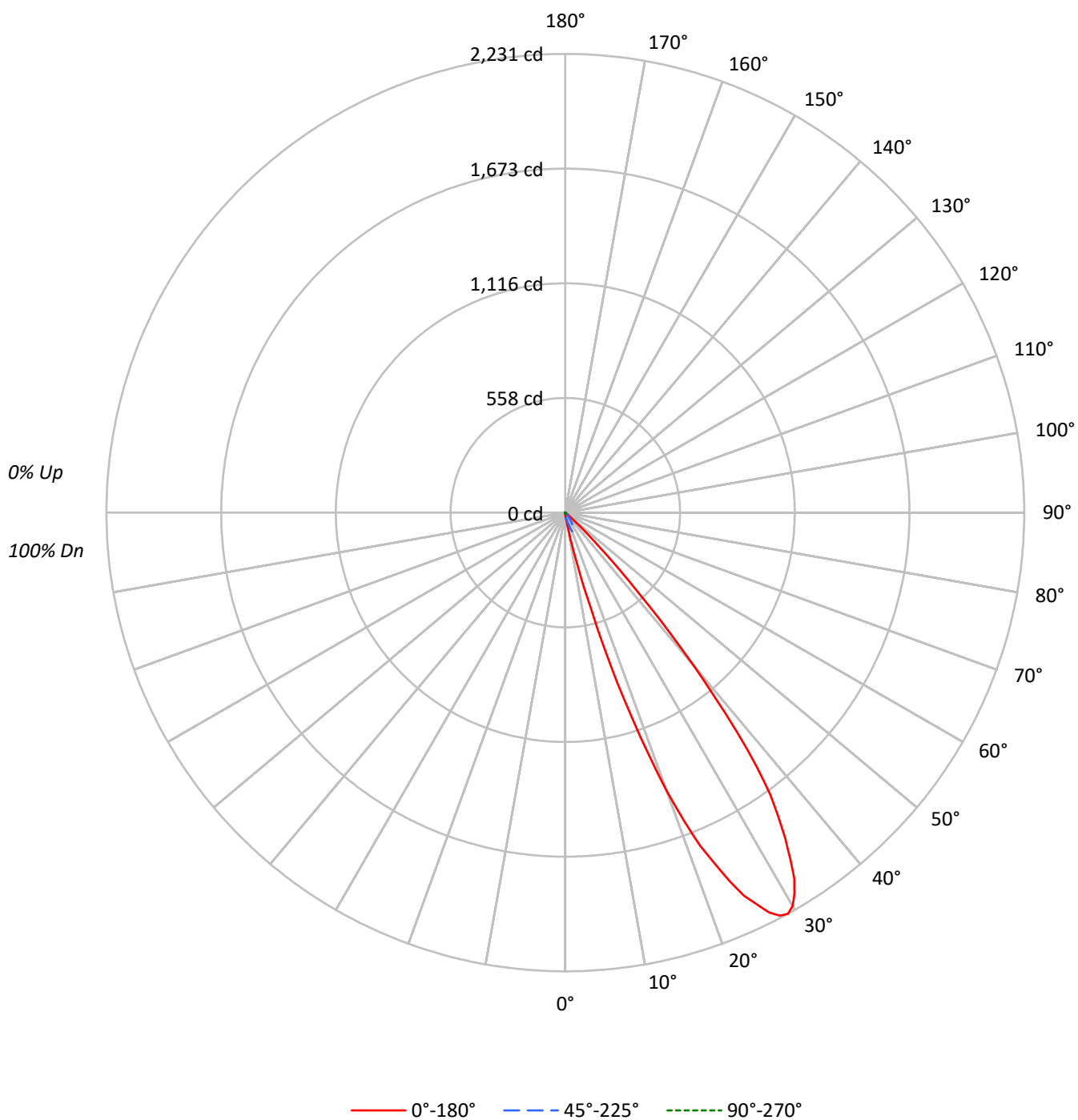
Lumens per Lamp: N/A
Luminaire Lumens: 313.1 lumens
Efficiency: N/A
Efficacy: 28.5 lumens/watt
Spacing Criteria (0/90/45): 2.3 / 0.54 / 1.19
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 11
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	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	93	93	92
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	85	85	83
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	77	77	75
4	93	84	78	73	91	83	77	72	81	75	71	79	74	71	77	73	70	70	70	68
5	87	77	70	65	85	76	70	65	74	69	64	72	68	64	71	67	63	63	63	61
6	81	71	64	59	80	70	63	58	68	62	58	67	62	58	65	61	57	57	57	55
7	76	65	58	53	74	64	57	53	63	57	52	62	56	52	60	55	52	52	52	50
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	47	47	45
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	51	46	43	43	43	41
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	39	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	2368	2368	2368	2368	2368
5°	5437	4072	2245	1365	1189
10°	17145	7081	1826	757	579
15°	111011	13076	1362	250	68
20°	335026	22402	933	0	0
25°	497569	22598	556	0	0
30°	559529	17193	228	0	0
35°	482783	10253	161	0	0
40°	278007	3492	0	0	0
45°	67821	1395	93	0	93
50°	8153	375	102	102	307
55°	1070	0	229	229	421
60°	132	0	395	395	614
65°	156	156	571	571	882
70°	192	192	705	705	898
75°	0	254	932	763	932
80°	0	379	1137	758	1137
85°	0	755	2264	755	755

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°

Vertical Angle: 45°

Luminance: 68255 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.4	0.5
10°-20°	29.0	9.3
20°-30°	126.4	40.4
30°-40°	127.3	40.7
40°-50°	25.5	8.2
50°-60°	1.3	0.4
60°-70°	0.8	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°	156.9	50.1
0°-40°	284.2	90.8
0°-60°	311.0	99.4
0°-90°	313.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	313.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	11	11	11	11	11	
5°	25	18	10	6	5	4
15°	489	58	6	1	0	192
25°	2056	93	2	0	0	927
35°	1804	38	1	0	0	1073
45°	219	4	0	0	0	238
55°	3	0	1	1	1	5
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°	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8
2.5°	16.2	16.2	15.9	15.9	15.6	15.9	15.3	15.6	15.6	15.3	13.9
5°	24.7	25.3	25.0	25.0	24.7	25.0	24.4	23.9	23.3	23.3	18.5
7.5°	40.6	40.3	39.8	40.0	39.2	38.6	38.1	37.8	36.1	35.2	24.1
10°	77.0	78.7	77.2	77.0	71.8	71.6	68.2	63.3	59.1	56.8	31.8
12.5°	211.8	220.9	206.7	199.9	195.9	180.6	174.1	157.3	141.1	128.9	40.3
15°	489.0	511.4	482.7	484.7	460.9	417.1	378.8	345.9	307.0	267.8	57.6
17.5°	958.1	939.9	924.3	897.9	849.3	785.2	702.5	618.8	546.3	470.5	80.4
20°	1435.7	1419.5	1384.0	1326.4	1264.5	1169.4	1071.1	945.3	823.5	709.3	96.0
21°	1600.1	1594.7	1536.5	1501.0	1405.6	1314.8	1201.5	1066.9	929.7	794.5	98.5
22°	1747.0	1714.6	1683.3	1630.8	1536.0	1437.1	1311.1	1169.4	1020.6	870.4	98.8
23°	1848.6	1833.8	1804.3	1745.0	1650.7	1534.5	1401.7	1253.4	1096.7	924.0	98.0
24°	1961.1	1942.3	1899.2	1829.9	1734.7	1620.0	1468.4	1321.3	1150.9	969.2	95.7
25°	2056.5	2027.2	1976.1	1901.4	1797.5	1679.1	1526.6	1365.0	1188.7	999.6	93.4
26°	2118.4	2102.5	2036.9	1955.7	1844.4	1722.2	1566.6	1398.5	1213.1	1013.5	89.7
27°	2182.8	2153.6	2089.1	1995.7	1875.0	1750.4	1589.4	1414.7	1221.6	1014.0	85.2
28°	2219.8	2188.0	2115.0	2016.7	1894.9	1766.0	1602.4	1419.8	1219.9	1005.2	79.8
29°	2231.4	2191.4	2120.1	2020.1	1899.7	1767.1	1600.4	1412.4	1204.9	983.7	73.5
30°	2209.8	2168.9	2101.3	2003.9	1884.4	1752.9	1582.0	1388.0	1178.2	952.7	67.9
31°	2162.7	2128.0	2062.7	1965.0	1850.3	1719.7	1540.2	1348.0	1132.7	911.2	61.3
32°	2100.5	2066.4	2002.2	1913.9	1797.2	1665.5	1483.2	1285.5	1079.4	849.3	54.8
33°	2007.1	1987.5	1929.8	1845.5	1728.8	1587.9	1406.5	1210.8	1003.2	780.6	49.1
34°	1912.5	1887.8	1847.5	1755.2	1629.7	1489.1	1306.5	1107.7	910.4	703.7	43.7
35°	1803.5	1788.7	1725.4	1651.5	1525.5	1381.8	1200.3	1007.5	802.2	617.9	38.3
36°	1697.8	1675.1	1603.0	1524.9	1402.5	1247.2	1068.0	886.8	708.8	537.5	32.7
37°	1544.5	1509.8	1458.4	1376.1	1233.0	1100.6	937.1	769.0	593.8	450.7	26.4
38°	1364.2	1348.0	1276.7	1193.8	1075.4	949.9	788.0	645.5	489.8	376.3	20.2
39°	1151.5	1151.2	1083.0	1023.1	907.3	794.3	648.3	523.9	404.4	303.0	15.6
40°	971.2	937.7	895.6	820.4	731.5	635.5	507.7	410.0	313.8	244.2	12.2
42.5°	509.1	506.3	481.6	425.1	375.4	318.9	253.6	211.3	165.3	134.6	7.7
45°	218.7	220.1	203.0	194.5	175.2	151.6	128.1	106.8	91.4	74.1	4.5
47.5°	55.4	53.1	52.5	54.5	54.5	52.8	47.4	44.6	41.2	37.8	2.6
50°	23.9	23.3	22.7	22.7	21.3	20.4	19.0	17.3	15.9	14.2	1.1
52.5°	8.8	9.1	9.4	9.1	9.1	8.8	8.8	8.5	7.7	6.8	0.6
55°	2.8	2.8	2.8	3.1	3.1	3.4	3.4	3.4	3.4	3.1	0.0
57.5°	0.6	0.6	0.9	0.9	0.9	0.9	0.9	0.9	1.1	1.1	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°	10.8	10.8	10.8	10.8	10.8	10.8
2.5°	12.5	11.1	9.4	8.0	7.7	7.4
5°	13.9	10.2	7.7	6.2	5.7	5.4
7.5°	15.1	9.4	6.2	4.5	4.0	3.7
10°	15.6	8.2	5.1	3.4	2.6	2.6
12.5°	15.9	7.1	3.7	2.3	1.4	1.4
15°	15.6	6.0	2.8	1.1	0.3	0.3
17.5°	14.2	4.8	1.7	0.3	0.0	0.0
20°	12.2	4.0	1.1	0.0	0.0	0.0
21°	11.6	3.4	0.9	0.0	0.0	0.0
22°	10.8	3.1	0.6	0.0	0.0	0.0
23°	9.9	2.8	0.6	0.0	0.0	0.0
24°	9.1	2.6	0.3	0.0	0.0	0.0
25°	8.5	2.3	0.3	0.0	0.0	0.0
26°	8.0	2.0	0.3	0.0	0.0	0.0
27°	7.1	1.7	0.0	0.0	0.0	0.0
28°	6.5	1.4	0.0	0.0	0.0	0.0
29°	5.7	1.1	0.0	0.0	0.0	0.0
30°	4.8	0.9	0.0	0.0	0.0	0.0
31°	4.0	0.9	0.0	0.0	0.0	0.0
32°	3.4	0.6	0.0	0.0	0.0	0.0
33°	2.8	0.6	0.0	0.0	0.0	0.0
34°	2.6	0.6	0.0	0.0	0.0	0.0
35°	2.3	0.6	0.0	0.0	0.0	0.0
36°	1.7	0.3	0.0	0.0	0.0	0.0
37°	1.4	0.3	0.0	0.0	0.0	0.0
38°	1.1	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	1.1	1.1
57.5°	0.3	0.6	0.6	0.9	1.1	1.4
60°	0.6	0.9	0.9	0.9	1.4	1.4
62.5°	0.6	0.9	1.1	1.1	1.4	1.7
65°	0.6	1.1	1.1	1.1	1.4	1.7
67.5°	0.9	1.1	1.1	1.1	1.4	1.7
70°	0.9	1.1	1.1	1.1	1.4	1.4
72.5°	0.9	1.1	0.9	1.1	1.1	1.4
75°	0.9	1.1	0.9	0.9	1.1	1.1
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)