

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: P1340362

Luminaire Tested: P3A09R209030D2WDE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1340362
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: P3A09R209030D2WDE010 E3A301WMH
Description: 3in Adjustable Dim to Warm LED luminaire with, R20 optic, 3000K CCT AND, 90CRI ,
E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

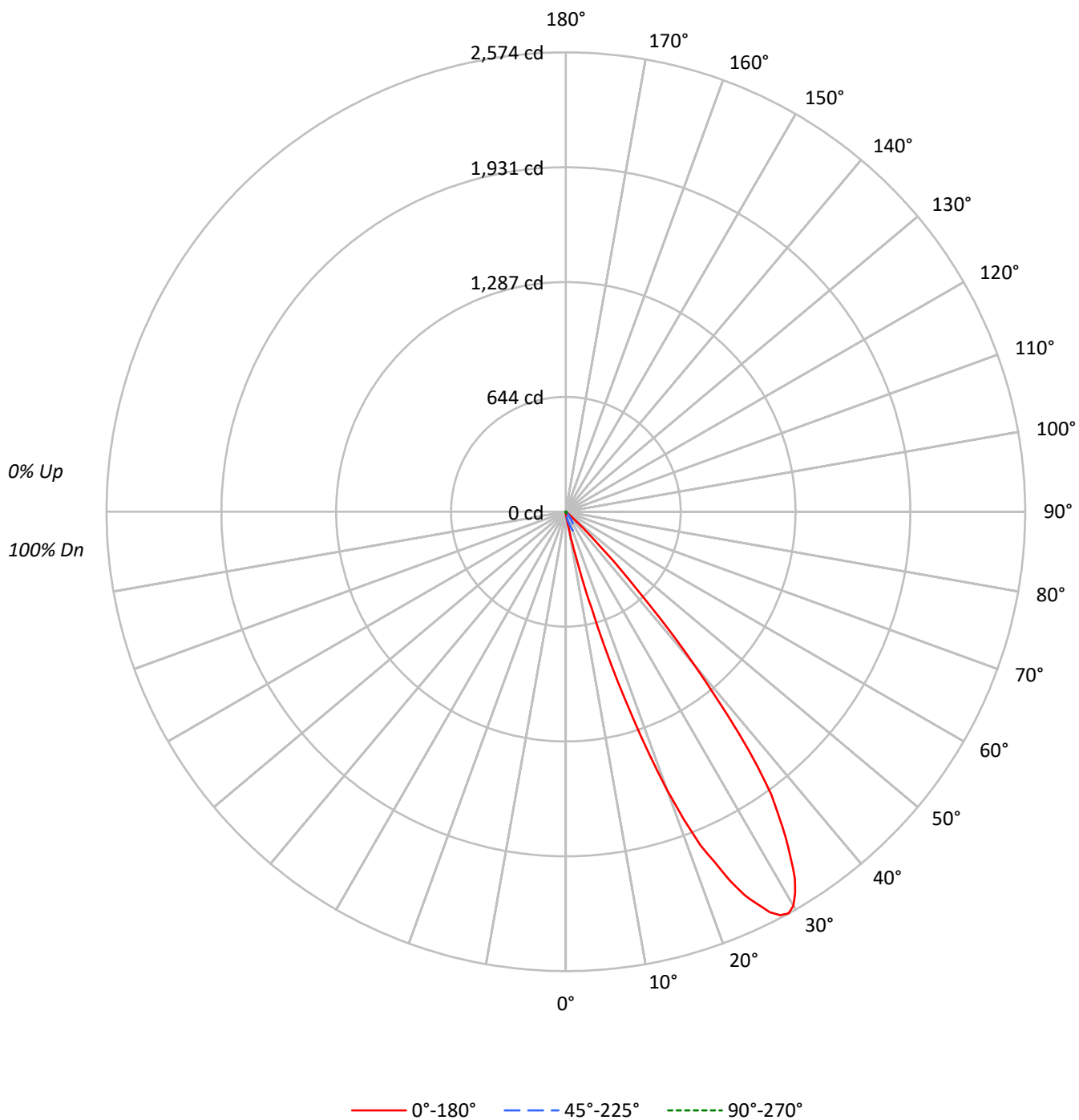
Lumens per Lamp: N/A
Luminaire Lumens: 361.0 lumens
Efficiency: N/A
Efficacy: 24.6 lumens/watt
Spacing Criteria (0/90/45): 2.3 / 0.54 / 1.19
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.7
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	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°	2719	2719	2719	2719	2719
5°	6273	4689	2597	1585	1365
10°	19773	8172	2115	868	646
15°	128037	15097	1566	295	68
20°	386410	25832	1073	0	0
25°	573856	26082	629	0	0
30°	645340	19826	253	0	0
35°	556800	11832	187	0	0
40°	320629	4036	0	0	0
45°	78210	1613	93	0	93
50°	9381	443	102	102	341
55°	1262	0	268	268	497
60°	132	0	439	439	702
65°	156	156	675	675	1038
70°	192	192	833	833	1026
75°	0	254	1101	847	1101
80°	0	379	1263	884	1263
85°	0	755	2516	755	755

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°

Vertical Angle: 45°

Luminance: 78706 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.7	0.5
10°-20°	33.5	9.3
20°-30°	145.8	40.4
30°-40°	146.9	40.7
40°-50°	29.5	8.2
50°-60°	1.5	0.4
60°-70°	1.0	0.3
70°-80°	0.9	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°	180.9	50.1
0°-40°	327.8	90.8
0°-60°	358.7	99.4
0°-90°	361.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	361.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	12	12	12	12	12	
5°	28	21	12	7	6	4
15°	564	66	7	1	0	221
25°	2372	108	3	0	0	1069
35°	2080	44	1	0	0	1238
45°	252	5	0	0	0	275
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°	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4
2.5°	18.7	18.7	18.3	18.3	18.0	18.3	17.7	18.0	18.0	17.7	16.0
5°	28.5	29.1	28.8	28.8	28.5	28.8	28.2	27.5	26.9	26.9	21.3
7.5°	46.8	46.5	45.9	46.2	45.2	44.5	43.9	43.6	41.6	40.6	27.8
10°	88.8	90.7	89.1	88.8	82.9	82.5	78.6	73.0	68.1	65.5	36.7
12.5°	244.3	254.8	238.4	230.6	226.0	208.3	200.8	181.4	162.8	148.7	46.5
15°	564.0	589.9	556.8	559.1	531.6	481.1	436.9	398.9	354.0	308.8	66.5
17.5°	1105.0	1084.1	1066.1	1035.6	979.6	905.6	810.3	713.6	630.1	542.7	92.7
20°	1655.9	1637.2	1596.3	1529.8	1458.4	1348.7	1235.4	1090.3	949.8	818.1	110.7
21°	1845.5	1839.3	1772.2	1731.2	1621.2	1516.4	1385.7	1230.5	1072.3	916.4	113.6
22°	2014.9	1977.5	1941.5	1880.9	1771.5	1657.5	1512.1	1348.7	1177.1	1003.8	114.0
23°	2132.1	2115.1	2081.0	2012.6	1903.8	1769.9	1616.6	1445.6	1264.9	1065.7	113.0
24°	2261.8	2240.2	2190.4	2110.5	2000.8	1868.5	1693.6	1523.9	1327.4	1117.8	110.4
25°	2371.8	2338.1	2279.2	2193.0	2073.2	1936.6	1760.7	1574.4	1371.0	1152.8	107.8
26°	2443.2	2424.9	2349.2	2255.6	2127.2	1986.4	1806.9	1613.0	1399.1	1168.9	103.5
27°	2517.6	2483.9	2409.5	2301.8	2162.6	2018.8	1833.1	1631.7	1409.0	1169.5	98.3
28°	2560.2	2523.5	2439.3	2326.0	2185.5	2036.8	1848.2	1637.6	1407.0	1159.4	92.0
29°	2573.6	2527.4	2445.2	2329.9	2191.1	2038.1	1845.9	1629.0	1389.6	1134.5	84.8
30°	2548.7	2501.5	2423.6	2311.3	2173.4	2021.7	1824.6	1600.9	1358.8	1098.8	78.3
31°	2494.3	2454.4	2379.1	2266.4	2134.1	1983.4	1776.4	1554.7	1306.4	1051.0	70.7
32°	2422.6	2383.3	2309.3	2207.4	2072.8	1920.9	1710.6	1482.6	1244.9	979.6	63.2
33°	2314.9	2292.3	2225.8	2128.5	1993.9	1831.5	1622.2	1396.5	1157.1	900.3	56.7
34°	2205.8	2177.3	2130.8	2024.4	1879.6	1717.5	1506.9	1277.6	1050.0	811.6	50.4
35°	2080.0	2063.0	1990.0	1904.8	1759.4	1593.7	1384.4	1162.0	925.2	712.7	44.2
36°	1958.2	1932.0	1848.8	1758.7	1617.6	1438.4	1231.8	1022.8	817.5	620.0	37.7
37°	1781.3	1741.4	1682.1	1587.1	1422.1	1269.4	1080.8	886.9	684.8	519.8	30.5
38°	1573.4	1554.7	1472.5	1376.9	1240.3	1095.5	908.8	744.4	565.0	434.0	23.3
39°	1328.1	1327.7	1249.1	1180.0	1046.4	916.1	747.7	604.3	466.4	349.5	18.0
40°	1120.1	1081.4	1033.0	946.2	843.7	733.0	585.6	472.9	361.9	281.7	14.1
42.5°	587.2	584.0	555.5	490.3	433.0	367.8	292.5	243.7	190.6	155.2	8.8
45°	252.2	253.8	234.2	224.3	202.1	174.9	147.7	123.1	105.5	85.5	5.2
47.5°	63.9	61.2	60.6	62.9	62.9	60.9	54.7	51.4	47.5	43.6	2.9
50°	27.5	26.9	26.2	26.2	24.6	23.6	21.9	20.0	18.3	16.4	1.3
52.5°	10.2	10.5	10.8	10.5	10.5	10.2	10.2	9.8	8.8	7.9	0.7
55°	3.3	3.3	3.3	3.6	3.6	3.9	3.9	3.9	3.9	3.6	0.0
57.5°	0.7	0.7	1.0	1.0	1.0	1.0	1.0	1.0	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°	12.4	12.4	12.4	12.4	12.4	12.4
2.5°	14.4	12.8	10.8	9.2	8.8	8.5
5°	16.0	11.8	8.8	7.2	6.6	6.2
7.5°	17.4	10.8	7.2	5.2	4.6	4.3
10°	18.0	9.5	5.9	3.9	2.9	2.9
12.5°	18.3	8.2	4.3	2.6	1.6	1.6
15°	18.0	6.9	3.3	1.3	0.3	0.3
17.5°	16.4	5.6	2.0	0.3	0.0	0.0
20°	14.1	4.6	1.3	0.0	0.0	0.0
21°	13.4	3.9	1.0	0.0	0.0	0.0
22°	12.4	3.6	0.7	0.0	0.0	0.0
23°	11.5	3.3	0.7	0.0	0.0	0.0
24°	10.5	2.9	0.3	0.0	0.0	0.0
25°	9.8	2.6	0.3	0.0	0.0	0.0
26°	9.2	2.3	0.3	0.0	0.0	0.0
27°	8.2	2.0	0.0	0.0	0.0	0.0
28°	7.5	1.6	0.0	0.0	0.0	0.0
29°	6.6	1.3	0.0	0.0	0.0	0.0
30°	5.6	1.0	0.0	0.0	0.0	0.0
31°	4.6	1.0	0.0	0.0	0.0	0.0
32°	3.9	0.7	0.0	0.0	0.0	0.0
33°	3.3	0.7	0.0	0.0	0.0	0.0
34°	2.9	0.7	0.0	0.0	0.0	0.0
35°	2.6	0.7	0.0	0.0	0.0	0.0
36°	2.0	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°	1.0	0.0	0.0	0.0	0.0	0.0
40°	1.0	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	0.7
50°	0.0	0.3	0.3	0.3	0.7	1.0
52.5°	0.0	0.7	0.3	0.3	1.0	1.0
55°	0.3	0.7	0.3	0.7	1.3	1.3
57.5°	0.3	0.7	0.7	1.0	1.3	1.6
60°	0.7	1.0	1.0	1.0	1.6	1.6
62.5°	0.7	1.0	1.3	1.3	1.6	2.0
65°	0.7	1.3	1.3	1.3	1.6	2.0
67.5°	1.0	1.3	1.3	1.3	1.6	2.0
70°	1.0	1.3	1.3	1.3	1.6	1.6
72.5°	1.0	1.3	1.0	1.3	1.3	1.6
75°	1.0	1.3	1.0	1.0	1.3	1.3
77.5°	0.7	1.0	1.0	0.7	1.0	1.0
80°	0.7	1.0	0.7	0.7	1.0	1.0



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.7	1.0	0.7	0.3	0.7	0.7
85°	0.7	1.0	0.7	0.3	0.3	0.3
87.5°	0.7	1.0	0.7	0.3	0.0	0.3
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)