

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: P1334333

Luminaire Tested: P3A02R209030D2WDE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1334333
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: P3A02R209030D2WDE010 E3CA301MW
Description: 3in Adjustable Dim to Warm LED luminaire with, R20 optic, 3000K CCT AND, 90CRI ,
E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

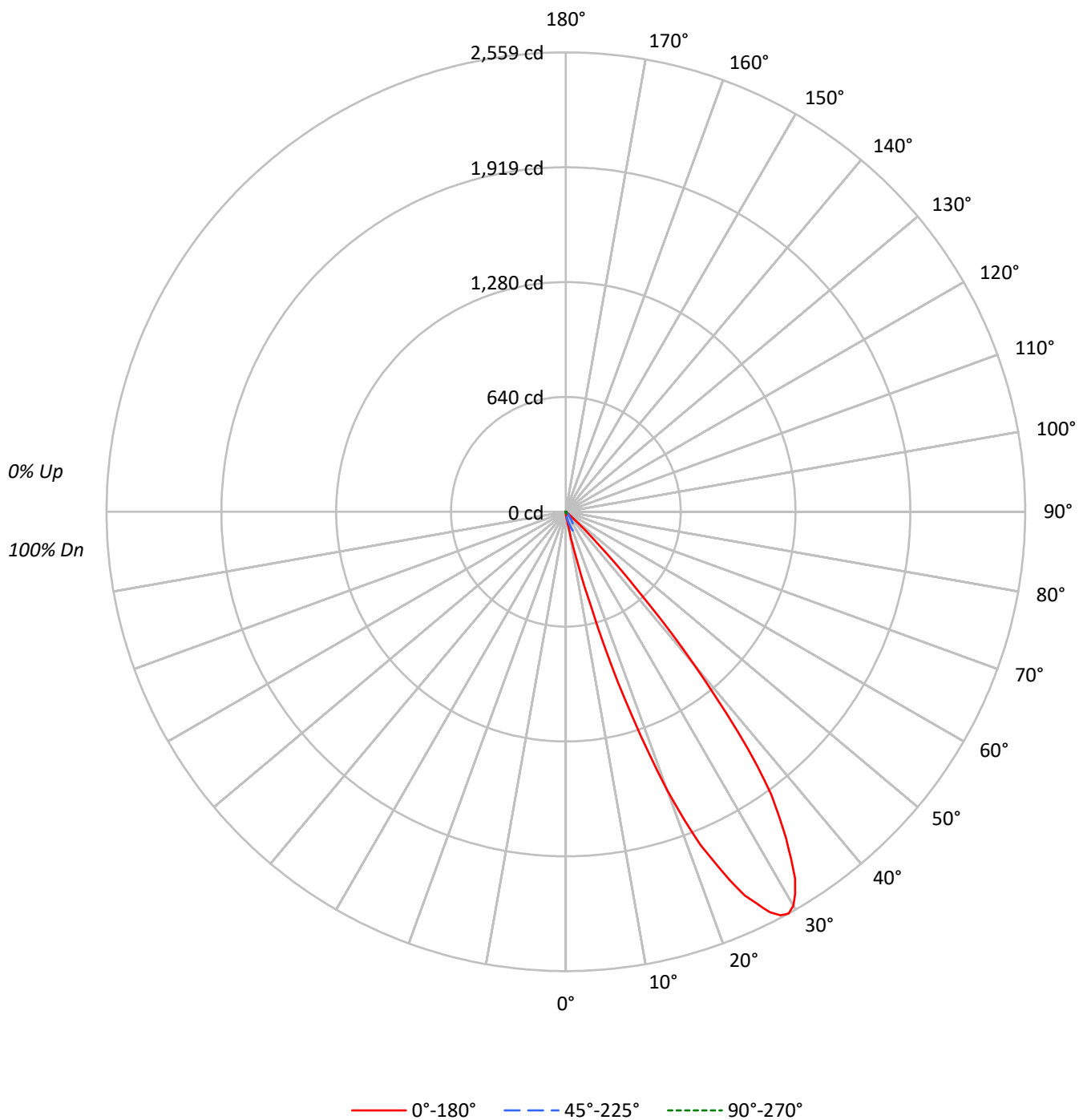
Lumens per Lamp: N/A
Luminaire Lumens: 359.0 lumens
Efficiency: N/A
Efficacy: 49.9 lumens/watt
Spacing Criteria (0/90/45): 2.29 / 0.53 / 1.19
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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			0
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°	6229	4667	2575	1585	1365
10°	19661	8127	2093	868	646
15°	127333	15006	1544	295	68
20°	384263	25692	1073	0	0
25°	570686	25937	629	0	0
30°	641770	19699	253	0	0
35°	553721	11778	187	0	0
40°	318855	4008	0	0	0
45°	77776	1613	93	0	93
50°	9347	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: 78272 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.7	0.5
10°-20°	33.3	9.3
20°-30°	145.0	40.4
30°-40°	146.0	40.7
40°-50°	29.3	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°	179.9	50.1
0°-40°	326.0	90.8
0°-60°	356.7	99.4
0°-90°	359.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	359.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	12	12	12	12	12	
5°	28	21	12	7	6	4
15°	561	66	7	1	0	220
25°	2359	107	3	0	0	1064
35°	2068	44	1	0	0	1231
45°	251	5	0	0	0	273
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°	18.6	18.6	18.2	18.2	17.9	18.2	17.6	17.9	17.9	17.6	16.0
5°	28.3	29.0	28.7	28.7	28.3	28.7	28.0	27.4	26.7	26.7	21.2
7.5°	46.6	46.2	45.6	45.9	44.9	44.3	43.6	43.3	41.4	40.4	27.7
10°	88.3	90.2	88.6	88.3	82.4	82.1	78.2	72.6	67.7	65.1	36.5
12.5°	243.0	253.4	237.1	229.3	224.7	207.1	199.7	180.4	161.9	147.9	46.2
15°	560.9	586.6	553.7	556.0	528.6	478.5	434.5	396.7	352.1	307.1	66.1
17.5°	1098.9	1078.1	1060.1	1029.9	974.2	900.6	805.8	709.7	626.6	539.7	92.2
20°	1646.7	1628.2	1587.5	1521.3	1450.3	1341.2	1228.5	1084.2	944.5	813.6	110.1
21°	1835.3	1829.1	1762.4	1721.6	1612.2	1508.0	1378.0	1223.6	1066.3	911.3	113.0
22°	2003.7	1966.6	1930.7	1870.5	1761.7	1648.4	1503.7	1341.2	1170.6	998.3	113.3
23°	2120.3	2103.4	2069.5	2001.4	1893.3	1760.1	1607.6	1437.6	1257.8	1059.8	112.4
24°	2249.3	2227.8	2178.3	2098.8	1989.7	1858.1	1684.2	1515.5	1320.1	1111.6	109.8
25°	2358.7	2325.2	2266.5	2180.9	2061.7	1925.9	1751.0	1565.6	1363.4	1146.5	107.2
26°	2429.7	2411.5	2336.2	2243.1	2115.4	1975.4	1796.9	1604.1	1391.4	1162.4	102.9
27°	2503.6	2470.1	2396.2	2289.0	2150.6	2007.6	1822.9	1622.6	1401.2	1163.1	97.7
28°	2546.0	2509.5	2425.8	2313.1	2173.4	2025.5	1837.9	1628.5	1399.2	1153.0	91.5
29°	2559.3	2513.4	2431.7	2317.0	2178.9	2026.8	1835.6	1620.0	1381.9	1128.2	84.4
30°	2534.6	2487.7	2410.2	2298.5	2161.3	2010.5	1814.5	1592.0	1351.3	1092.7	77.8
31°	2480.5	2440.8	2365.9	2253.8	2122.2	1972.4	1766.6	1546.1	1299.2	1045.2	70.4
32°	2409.2	2370.1	2296.5	2195.2	2061.3	1910.2	1701.1	1474.4	1238.0	974.2	62.9
33°	2302.0	2279.6	2213.4	2116.7	1982.8	1821.3	1613.2	1388.8	1150.7	895.3	56.3
34°	2193.6	2165.2	2119.0	2013.1	1869.2	1708.0	1498.5	1270.5	1044.2	807.1	50.2
35°	2068.5	2051.6	1978.9	1894.3	1749.7	1584.8	1376.7	1155.6	920.1	708.7	44.0
36°	1947.3	1921.3	1838.6	1749.0	1608.6	1430.5	1225.0	1017.2	812.9	616.5	37.5
37°	1771.5	1731.7	1672.8	1578.3	1414.2	1262.4	1074.8	882.0	681.0	516.9	30.3
38°	1564.7	1546.1	1464.3	1369.2	1233.4	1089.5	903.8	740.3	561.8	431.5	23.1
39°	1320.7	1320.4	1242.2	1173.5	1040.6	911.0	743.6	600.9	463.8	347.5	17.9
40°	1113.9	1075.5	1027.3	940.9	839.0	728.9	582.3	470.3	359.9	280.1	14.0
42.5°	584.0	580.7	552.4	487.6	430.6	365.8	290.8	242.3	189.6	154.4	8.8
45°	250.8	252.4	232.9	223.1	201.0	173.9	146.9	122.5	104.9	85.0	5.2
47.5°	63.5	60.9	60.3	62.5	62.5	60.6	54.4	51.1	47.2	43.3	2.9
50°	27.4	26.7	26.1	26.1	24.4	23.5	21.8	19.9	18.2	16.3	1.3
52.5°	10.1	10.4	10.7	10.4	10.4	10.1	10.1	9.8	8.8	7.8	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°	14.3	12.7	10.7	9.1	8.8	8.5
5°	16.0	11.7	8.8	7.2	6.5	6.2
7.5°	17.3	10.7	7.2	5.2	4.6	4.2
10°	17.9	9.4	5.9	3.9	2.9	2.9
12.5°	18.2	8.1	4.2	2.6	1.6	1.6
15°	17.9	6.8	3.3	1.3	0.3	0.3
17.5°	16.3	5.5	2.0	0.3	0.0	0.0
20°	14.0	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°	11.4	3.3	0.7	0.0	0.0	0.0
24°	10.4	2.9	0.3	0.0	0.0	0.0
25°	9.8	2.6	0.3	0.0	0.0	0.0
26°	9.1	2.3	0.3	0.0	0.0	0.0
27°	8.1	2.0	0.0	0.0	0.0	0.0
28°	7.5	1.6	0.0	0.0	0.0	0.0
29°	6.5	1.3	0.0	0.0	0.0	0.0
30°	5.5	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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	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)