

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: P1336959

Luminaire Tested: P3A05R209827DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1336959
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: P3A05R209827DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R20 optic, 2700K CCT AND, 98CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

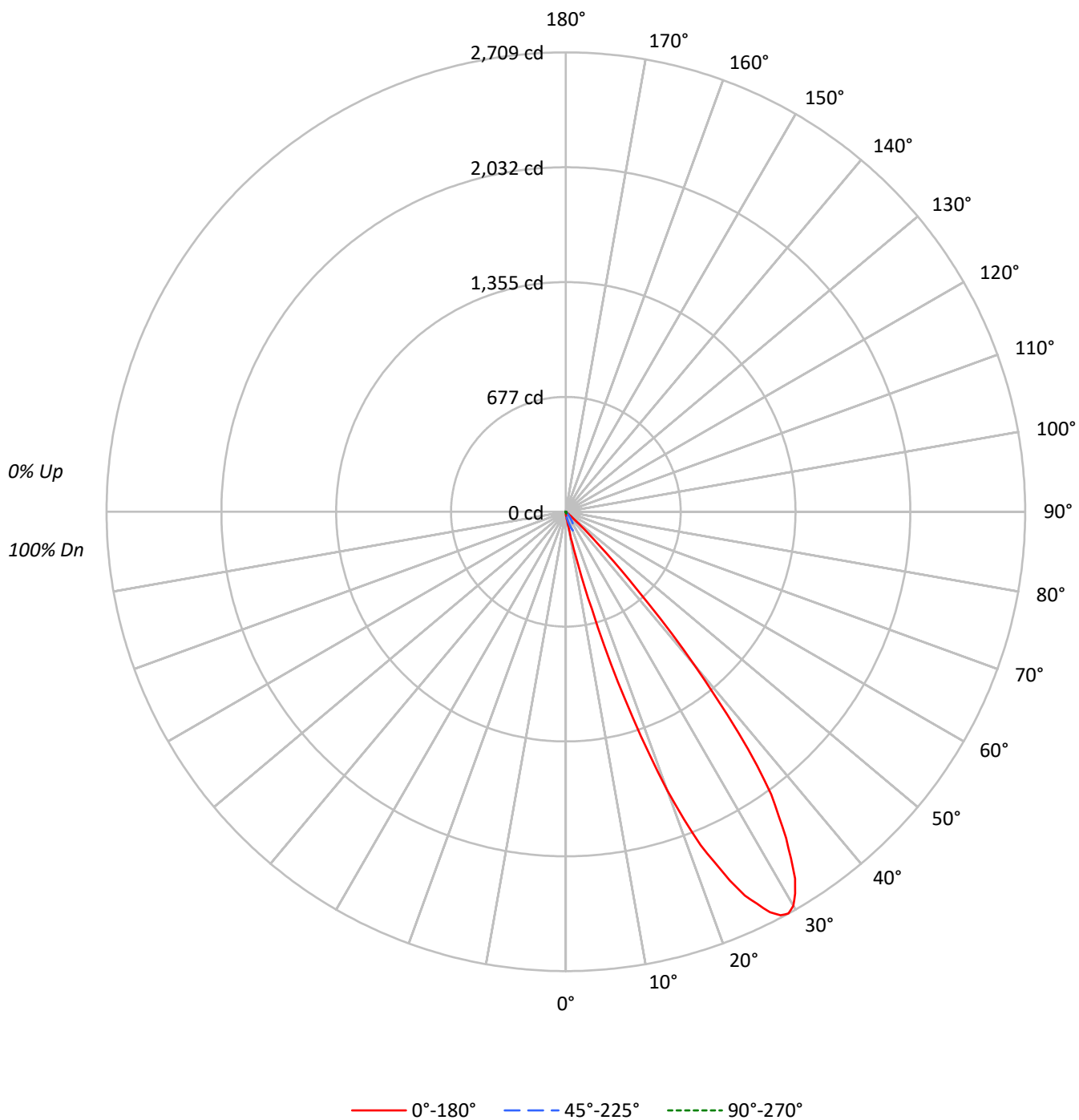
Lumens per Lamp: N/A
Luminaire Lumens: 379.9 lumens
Efficiency: N/A
Efficacy: 52.8 lumens/watt
Spacing Criteria (0/90/45): 2.3 / 0.53 / 1.19
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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	76	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°	2873	2873	2873	2873	2873
5°	6604	4931	2729	1673	1453
10°	20797	8595	2227	913	690
15°	134779	15891	1635	318	68
20°	406759	27186	1120	0	0
25°	604075	27437	677	0	0
30°	679294	20864	253	0	0
35°	586112	12448	187	0	0
40°	337489	4237	0	0	0
45°	82334	1706	93	0	93
50°	9893	478	102	102	341
55°	1300	0	268	268	535
60°	132	0	439	439	746
65°	156	156	726	726	1090
70°	192	192	898	898	1090
75°	0	254	1186	847	1186
80°	0	379	1263	884	1263
85°	0	755	2516	755	755

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°

Vertical Angle: 45°

Luminance: 82861 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.8	0.5
10°-20°	35.2	9.3
20°-30°	153.5	40.4
30°-40°	154.6	40.7
40°-50°	31.0	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°	190.5	50.1
0°-40°	345.0	90.8
0°-60°	377.6	99.4
0°-90°	379.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	379.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	13	13	13	13	13	
5°	30	22	12	8	7	5
15°	594	70	7	1	0	233
25°	2497	113	3	0	0	1126
35°	2190	46	1	0	0	1303
45°	266	6	0	0	0	289
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°	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1
2.5°	19.7	19.7	19.3	19.3	19.0	19.3	18.6	19.0	19.0	18.6	16.9
5°	30.0	30.7	30.3	30.3	30.0	30.3	29.6	29.0	28.3	28.3	22.4
7.5°	49.3	49.0	48.3	48.6	47.6	46.9	46.2	45.9	43.8	42.7	29.3
10°	93.4	95.5	93.8	93.4	87.2	86.9	82.7	76.9	71.7	69.0	38.6
12.5°	257.2	268.2	251.0	242.7	237.9	219.3	211.3	191.0	171.3	156.5	49.0
15°	593.7	620.9	586.1	588.5	559.5	506.4	459.9	419.9	372.7	325.1	70.0
17.5°	1163.2	1141.1	1122.2	1090.1	1031.1	953.2	852.9	751.2	663.3	571.3	97.6
20°	1743.1	1723.4	1680.3	1610.3	1535.2	1419.7	1300.4	1147.7	999.8	861.2	116.5
21°	1942.7	1936.1	1865.4	1822.3	1706.5	1596.2	1458.6	1295.2	1128.7	964.6	119.6
22°	2120.9	2081.6	2043.7	1979.9	1864.8	1744.8	1591.7	1419.7	1239.0	1056.7	120.0
23°	2244.3	2226.4	2190.5	2118.5	2004.0	1863.0	1701.7	1521.7	1331.4	1121.8	118.9
24°	2380.8	2358.1	2305.7	2221.6	2106.1	1966.8	1782.7	1604.1	1397.3	1176.6	116.2
25°	2496.7	2461.2	2399.1	2308.4	2182.3	2038.5	1853.4	1657.2	1443.1	1213.5	113.4
26°	2571.8	2552.5	2472.9	2374.3	2239.2	2090.9	1902.0	1697.9	1472.8	1230.4	108.9
27°	2650.1	2614.6	2536.3	2422.9	2276.4	2125.0	1929.6	1717.5	1483.1	1231.1	103.4
28°	2694.9	2656.3	2567.7	2448.4	2300.5	2144.0	1945.4	1723.8	1481.0	1220.4	96.9
29°	2709.0	2660.4	2573.9	2452.6	2306.4	2145.4	1943.0	1714.8	1462.8	1194.2	89.3
30°	2682.8	2633.2	2551.2	2432.9	2287.8	2128.1	1920.6	1685.1	1430.4	1156.6	82.4
31°	2625.6	2583.6	2504.3	2385.7	2246.4	2087.8	1869.9	1636.5	1375.2	1106.3	74.5
32°	2550.1	2508.7	2430.8	2323.6	2181.9	2022.0	1800.6	1560.7	1310.4	1031.1	66.5
33°	2436.7	2412.9	2342.9	2240.5	2098.8	1927.8	1707.5	1470.0	1218.0	947.7	59.6
34°	2321.9	2291.9	2242.9	2130.9	1978.5	1807.9	1586.2	1344.9	1105.3	854.3	53.1
35°	2189.5	2171.6	2094.7	2005.1	1852.0	1677.6	1457.3	1223.2	973.9	750.2	46.5
36°	2061.3	2033.7	1946.1	1851.3	1702.7	1514.1	1296.6	1076.7	860.5	652.6	39.6
37°	1875.1	1833.0	1770.6	1670.7	1496.9	1336.3	1137.7	933.6	720.9	547.1	32.1
38°	1656.2	1636.5	1550.0	1449.3	1305.6	1153.2	956.7	783.6	594.7	456.8	24.5
39°	1398.0	1397.6	1314.9	1242.1	1101.5	964.3	787.1	636.1	490.9	367.8	19.0
40°	1179.0	1138.4	1087.3	996.0	888.1	771.6	616.4	497.8	380.9	296.5	14.8
42.5°	618.1	614.7	584.7	516.1	455.8	387.2	307.9	256.5	200.6	163.4	9.3
45°	265.5	267.2	246.5	236.2	212.7	184.1	155.5	129.6	111.0	90.0	5.5
47.5°	67.2	64.5	63.8	66.2	66.2	64.1	57.6	54.1	50.0	45.9	3.1
50°	29.0	28.3	27.6	27.6	25.9	24.8	23.1	21.0	19.3	17.2	1.4
52.5°	10.7	11.0	11.4	11.0	11.0	10.7	10.7	10.3	9.3	8.3	0.7
55°	3.4	3.4	3.4	3.8	3.8	4.1	4.1	4.1	4.1	3.8	0.0
57.5°	0.7	0.7	1.0	1.0	1.0	1.0	1.0	1.0	1.4	1.4	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°	13.1	13.1	13.1	13.1	13.1	13.1
2.5°	15.2	13.4	11.4	9.7	9.3	9.0
5°	16.9	12.4	9.3	7.6	6.9	6.6
7.5°	18.3	11.4	7.6	5.5	4.8	4.5
10°	19.0	10.0	6.2	4.1	3.1	3.1
12.5°	19.3	8.6	4.5	2.8	1.7	1.7
15°	19.0	7.2	3.4	1.4	0.3	0.3
17.5°	17.2	5.9	2.1	0.3	0.0	0.0
20°	14.8	4.8	1.4	0.0	0.0	0.0
21°	14.1	4.1	1.0	0.0	0.0	0.0
22°	13.1	3.8	0.7	0.0	0.0	0.0
23°	12.1	3.4	0.7	0.0	0.0	0.0
24°	11.0	3.1	0.3	0.0	0.0	0.0
25°	10.3	2.8	0.3	0.0	0.0	0.0
26°	9.7	2.4	0.3	0.0	0.0	0.0
27°	8.6	2.1	0.0	0.0	0.0	0.0
28°	7.9	1.7	0.0	0.0	0.0	0.0
29°	6.9	1.4	0.0	0.0	0.0	0.0
30°	5.9	1.0	0.0	0.0	0.0	0.0
31°	4.8	1.0	0.0	0.0	0.0	0.0
32°	4.1	0.7	0.0	0.0	0.0	0.0
33°	3.4	0.7	0.0	0.0	0.0	0.0
34°	3.1	0.7	0.0	0.0	0.0	0.0
35°	2.8	0.7	0.0	0.0	0.0	0.0
36°	2.1	0.3	0.0	0.0	0.0	0.0
37°	1.7	0.3	0.0	0.0	0.0	0.0
38°	1.4	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	1.4	1.4
57.5°	0.3	0.7	0.7	1.0	1.4	1.7
60°	0.7	1.0	1.0	1.0	1.7	1.7
62.5°	0.7	1.0	1.4	1.4	1.7	2.1
65°	0.7	1.4	1.4	1.4	1.7	2.1
67.5°	1.0	1.4	1.4	1.4	1.7	2.1
70°	1.0	1.4	1.4	1.4	1.7	1.7
72.5°	1.0	1.4	1.0	1.4	1.4	1.7
75°	1.0	1.4	1.0	1.0	1.4	1.4
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)