

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: P1336975

Luminaire Tested: P3A05R209830DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1336975
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: P3A05R209830DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R20 optic, 3000K CCT AND, 98CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

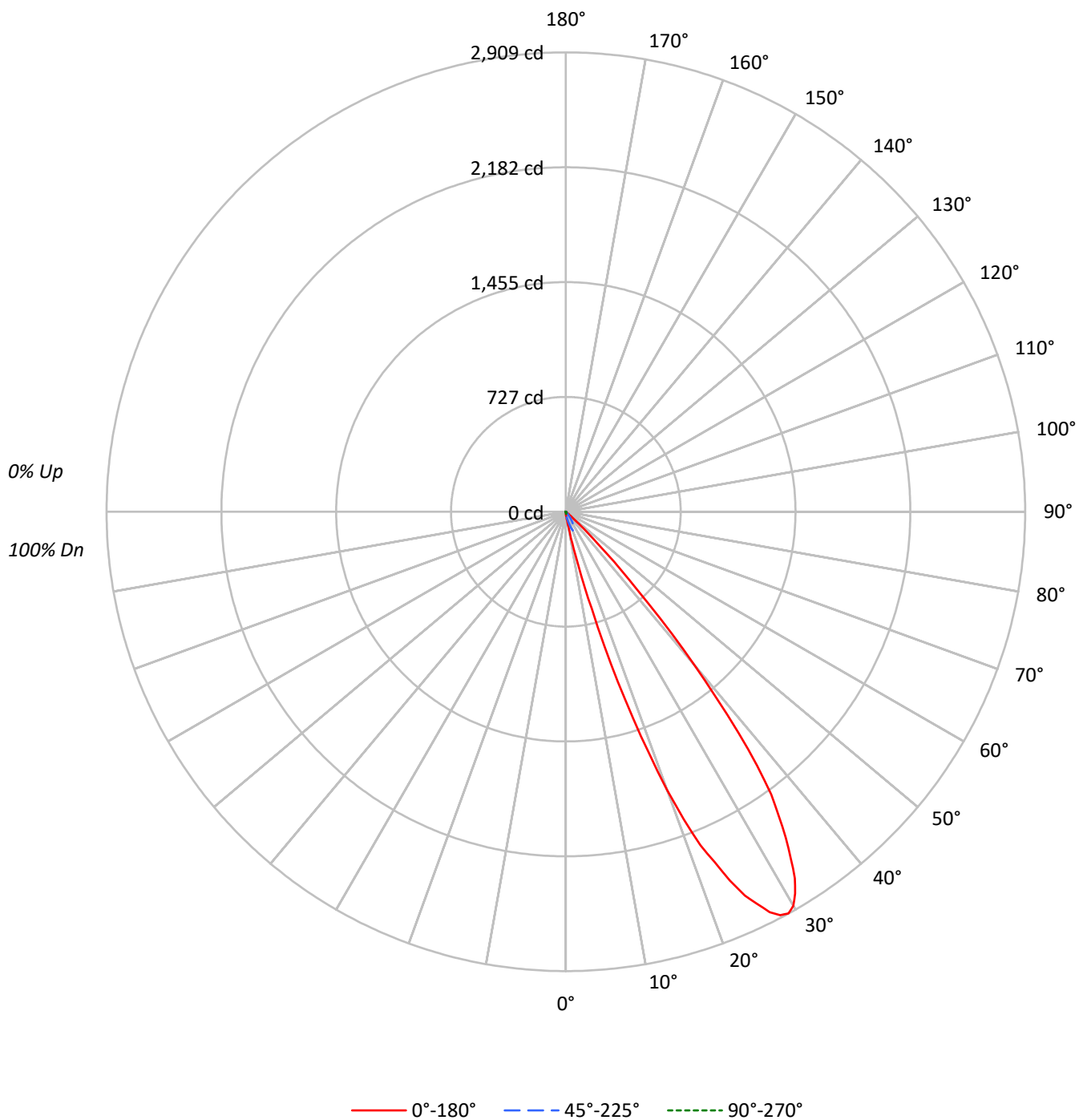
Lumens per Lamp: N/A
Luminaire Lumens: 408.0 lumens
Efficiency: N/A
Efficacy: 56.7 lumens/watt
Spacing Criteria (0/90/45): 2.29 / 0.53 / 1.19
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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
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°	3092	3092	3092	3092	3092
5°	7088	5305	2928	1783	1541
10°	22333	9241	2382	980	735
15°	144700	17049	1771	341	91
20°	436721	29193	1213	0	0
25°	648570	29469	726	0	0
30°	729353	22409	279	0	0
35°	629291	13385	187	0	0
40°	362365	4551	0	0	0
45°	88381	1830	124	0	124
50°	10609	512	136	136	375
55°	1415	0	268	268	573
60°	175	0	482	482	833
65°	208	208	778	778	1141
70°	256	256	962	962	1218
75°	0	339	1271	932	1271
80°	0	505	1389	884	1389
85°	0	1006	2768	1006	1006

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°

Vertical Angle: 45°

Luminance: 88970 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.9	0.5
10°-20°	37.8	9.3
20°-30°	164.8	40.4
30°-40°	166.0	40.7
40°-50°	33.3	8.2
50°-60°	1.7	0.4
60°-70°	1.1	0.3
70°-80°	1.0	0.2
80°-90°	0.5	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°	204.5	50.1
0°-40°	370.5	90.8
0°-60°	405.4	99.4
0°-90°	408.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	408.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	14	14	14	14	14	
5°	32	24	13	8	7	5
15°	637	75	8	2	0	250
25°	2681	122	3	0	0	1209
35°	2351	50	1	0	0	1399
45°	285	6	0	0	0	310
55°	4	0	1	1	2	7
65°	0	0	2	2	2	0
75°	0	0	2	1	2	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°	14.1	14.1	14.1	14.1	14.1	14.1	14.1	14.1	14.1	14.1	14.1
2.5°	21.1	21.1	20.7	20.7	20.4	20.7	20.0	20.4	20.4	20.0	18.1
5°	32.2	32.9	32.6	32.6	32.2	32.6	31.8	31.1	30.4	30.4	24.1
7.5°	52.9	52.6	51.8	52.2	51.1	50.3	49.6	49.2	47.0	45.9	31.5
10°	100.3	102.5	100.7	100.3	93.6	93.3	88.8	82.5	77.0	74.0	41.5
12.5°	276.1	288.0	269.5	260.6	255.4	235.4	226.9	205.1	184.0	168.0	52.6
15°	637.4	666.6	629.3	631.9	600.8	543.8	493.8	450.8	400.1	349.1	75.1
17.5°	1248.9	1225.2	1204.8	1170.4	1107.1	1023.5	915.8	806.6	712.2	613.3	104.8
20°	1871.5	1850.4	1804.1	1729.0	1648.3	1524.3	1396.2	1232.2	1073.4	924.6	125.1
21°	2085.8	2078.8	2002.9	1956.6	1832.3	1713.8	1566.1	1390.7	1211.9	1035.7	128.4
22°	2277.2	2235.0	2194.3	2125.8	2002.2	1873.3	1709.0	1524.3	1330.3	1134.5	128.8
23°	2409.7	2390.4	2352.0	2274.6	2151.7	2000.3	1827.1	1633.9	1429.5	1204.5	127.7
24°	2556.3	2531.8	2475.6	2385.3	2261.3	2111.7	1914.1	1722.3	1500.2	1263.3	124.7
25°	2680.6	2642.5	2575.9	2478.5	2343.1	2188.7	1989.9	1779.3	1549.5	1302.9	121.8
26°	2761.3	2740.6	2655.1	2549.2	2404.1	2245.0	2042.1	1823.0	1581.3	1321.1	117.0
27°	2845.4	2807.2	2723.2	2601.4	2444.1	2281.6	2071.7	1844.1	1592.4	1321.8	111.0
28°	2893.5	2852.0	2756.9	2628.8	2470.0	2302.0	2088.8	1850.8	1590.2	1310.3	104.0
29°	2908.7	2856.5	2763.6	2633.3	2476.3	2303.5	2086.2	1841.1	1570.6	1282.2	95.9
30°	2880.5	2827.2	2739.1	2612.2	2456.3	2285.0	2062.1	1809.3	1535.8	1241.9	88.5
31°	2819.1	2773.9	2688.8	2561.5	2411.9	2241.6	2007.7	1757.1	1476.5	1187.8	80.0
32°	2738.0	2693.6	2609.9	2494.8	2342.7	2170.9	1933.3	1675.7	1407.0	1107.1	71.4
33°	2616.2	2590.7	2515.6	2405.6	2253.5	2069.9	1833.4	1578.3	1307.7	1017.5	64.0
34°	2493.0	2460.8	2408.2	2287.9	2124.3	1941.1	1703.1	1444.0	1186.7	917.2	57.0
35°	2350.8	2331.6	2249.0	2152.8	1988.5	1801.2	1564.6	1313.3	1045.7	805.5	50.0
36°	2213.1	2183.5	2089.5	1987.7	1828.2	1625.7	1392.1	1156.0	923.9	700.7	42.6
37°	2013.3	1968.1	1901.1	1793.8	1607.2	1434.7	1221.5	1002.4	774.0	587.4	34.4
38°	1778.2	1757.1	1664.2	1556.1	1401.8	1238.2	1027.2	841.4	638.5	490.5	26.3
39°	1501.0	1500.6	1411.8	1333.7	1182.6	1035.3	845.1	682.9	527.1	395.0	20.4
40°	1265.9	1222.2	1167.5	1069.4	953.5	828.4	661.8	534.5	409.0	318.3	15.9
42.5°	663.7	660.0	627.8	554.1	489.3	415.7	330.5	275.4	215.4	175.5	10.0
45°	285.0	286.9	264.7	253.6	228.4	197.7	166.9	139.2	119.2	96.6	5.9
47.5°	72.2	69.2	68.5	71.1	71.1	68.8	61.8	58.1	53.7	49.2	3.3
50°	31.1	30.4	29.6	29.6	27.8	26.7	24.8	22.6	20.7	18.5	1.5
52.5°	11.5	11.8	12.2	11.8	11.8	11.5	11.5	11.1	10.0	8.9	0.7
55°	3.7	3.7	3.7	4.1	4.1	4.4	4.4	4.4	4.4	4.1	0.0
57.5°	0.7	0.7	1.1	1.1	1.1	1.1	1.1	1.1	1.5	1.5	0.0
60°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.0
62.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
65°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
67.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
70°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
72.5°	0.4	0.0	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
75°	0.0	0.0	0.0	0.4	0.0	0.4	0.4	0.0	0.4	0.4	0.4
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4



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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	0.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
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°	14.1	14.1	14.1	14.1	14.1	14.1
2.5°	16.3	14.4	12.2	10.4	10.0	9.6
5°	18.1	13.3	10.0	8.1	7.4	7.0
7.5°	19.6	12.2	8.1	5.9	5.2	4.8
10°	20.4	10.7	6.7	4.4	3.3	3.3
12.5°	20.7	9.3	4.8	3.0	1.9	1.9
15°	20.4	7.8	3.7	1.5	0.4	0.4
17.5°	18.5	6.3	2.2	0.4	0.0	0.0
20°	15.9	5.2	1.5	0.0	0.0	0.0
21°	15.2	4.4	1.1	0.0	0.0	0.0
22°	14.1	4.1	0.7	0.0	0.0	0.0
23°	13.0	3.7	0.7	0.0	0.0	0.0
24°	11.8	3.3	0.4	0.0	0.0	0.0
25°	11.1	3.0	0.4	0.0	0.0	0.0
26°	10.4	2.6	0.4	0.0	0.0	0.0
27°	9.3	2.2	0.0	0.0	0.0	0.0
28°	8.5	1.9	0.0	0.0	0.0	0.0
29°	7.4	1.5	0.0	0.0	0.0	0.0
30°	6.3	1.1	0.0	0.0	0.0	0.0
31°	5.2	1.1	0.0	0.0	0.0	0.0
32°	4.4	0.7	0.0	0.0	0.0	0.0
33°	3.7	0.7	0.0	0.0	0.0	0.0
34°	3.3	0.7	0.0	0.0	0.0	0.0
35°	3.0	0.7	0.0	0.0	0.0	0.0
36°	2.2	0.4	0.0	0.0	0.0	0.0
37°	1.9	0.4	0.0	0.0	0.0	0.0
38°	1.5	0.4	0.0	0.0	0.0	0.0
39°	1.1	0.0	0.0	0.0	0.0	0.0
40°	1.1	0.0	0.0	0.0	0.0	0.0
42.5°	0.4	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.4	0.0	0.0	0.4	0.4
47.5°	0.0	0.4	0.0	0.0	0.4	0.7
50°	0.0	0.4	0.4	0.4	0.7	1.1
52.5°	0.0	0.7	0.4	0.4	1.1	1.1
55°	0.4	0.7	0.4	0.7	1.5	1.5
57.5°	0.4	0.7	0.7	1.1	1.5	1.9
60°	0.7	1.1	1.1	1.1	1.9	1.9
62.5°	0.7	1.1	1.5	1.5	1.9	2.2
65°	0.7	1.5	1.5	1.5	1.9	2.2
67.5°	1.1	1.5	1.5	1.5	1.9	2.2
70°	1.1	1.5	1.5	1.5	1.9	1.9
72.5°	1.1	1.5	1.1	1.5	1.5	1.9
75°	1.1	1.5	1.1	1.1	1.5	1.5
77.5°	0.7	1.1	1.1	0.7	1.1	1.1
80°	0.7	1.1	0.7	0.7	1.1	1.1



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.7	1.1	0.7	0.4	0.7	0.7
85°	0.7	1.1	0.7	0.4	0.4	0.4
87.5°	0.7	1.1	0.7	0.4	0.0	0.4
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)