

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: P1334023

Luminaire Tested: P3A02R159030DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1334023
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-59)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A02R159030DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R15 optic, 3000K CCT AND, 90CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

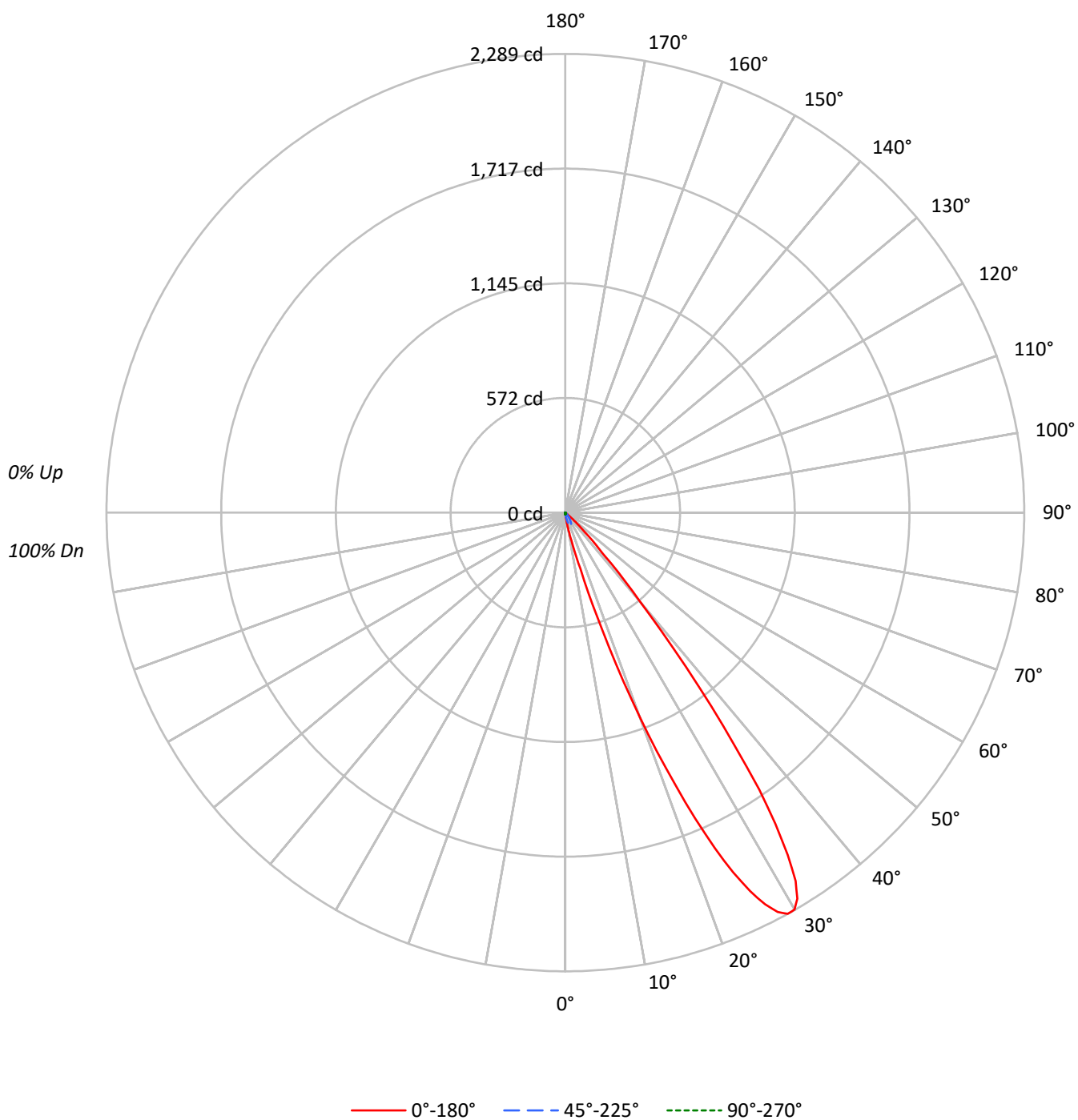
Lumens per Lamp: N/A
Luminaire Lumens: 250.0 lumens
Efficiency: N/A
Efficacy: 69.4 lumens/watt
Spacing Criteria (0/90/45): 2.35 / 0.49 / 1.26
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 3.6
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	75	71	79	74	70	77	73	70	68		
5	87	77	70	65	85	76	70	65	74	69	64	72	67	64	71	66	63	61		
6	81	71	64	59	80	70	63	58	68	62	58	67	61	57	65	61	57	55		
7	76	65	58	53	74	64	57	53	63	57	52	61	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	42	41		
10	62	51	44	39	61	50	43	39	49	43	39	48	43	39	47	42	39	37		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	1820	1820	1820	1820	1820
5°	3918	2884	1717	902	748
10°	17323	5478	1358	379	267
15°	65540	12645	931	159	114
20°	252022	17828	560	47	47
25°	479253	16719	290	0	0
30°	578925	13496	127	0	0
35°	451517	9182	54	0	0
40°	164766	4523	57	0	57
45°	42299	1364	62	0	155
50°	7130	171	68	68	239
55°	918	0	191	268	459
60°	88	88	307	439	658
65°	104	104	519	623	778
70°	128	128	641	641	769
75°	169	169	847	593	847
80°	0	253	884	631	884
85°	0	503	1761	503	503

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 42299 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.1	0.5
10°-20°	19.2	7.7
20°-30°	106.2	42.5
30°-40°	102.6	41.1
40°-50°	17.8	7.1
50°-60°	1.3	0.5
60°-70°	0.8	0.3
70°-80°	0.6	0.2
80°-90°	0.3	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°	126.5	50.6
0°-40°	229.2	91.7
0°-60°	248.3	99.3
0°-90°	250.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	250.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	8	8	8	8	8	
5°	18	13	8	4	3	3
15°	289	56	4	1	0	129
25°	1981	69	1	0	0	886
35°	1687	34	0	0	0	970
45°	136	4	0	0	0	147
55°	2	0	0	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°	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3
2.5°	12.2	11.7	11.9	11.9	11.9	11.9	11.9	11.4	11.4	11.7	10.5
5°	17.8	17.8	17.5	17.8	17.8	17.5	17.0	16.8	16.8	16.3	13.1
7.5°	35.5	35.0	35.0	34.5	32.1	31.4	30.9	29.7	27.5	27.0	17.0
10°	77.8	78.1	76.4	74.2	73.9	70.3	69.1	66.9	62.7	58.6	24.6
12.5°	141.3	138.1	134.0	134.2	127.2	124.8	119.2	113.1	106.8	100.2	40.4
15°	288.7	279.7	285.0	271.9	257.0	240.3	223.2	201.8	183.6	164.2	55.7
17.5°	608.0	616.7	601.9	545.7	511.2	470.6	413.4	358.2	311.0	273.1	68.1
20°	1080.0	1092.9	1042.5	993.7	909.8	818.3	723.0	615.0	511.7	422.2	76.4
21°	1277.2	1269.4	1248.8	1170.5	1073.7	967.6	850.9	731.8	606.5	490.3	77.1
22°	1467.9	1471.5	1423.4	1341.4	1240.7	1123.3	980.8	833.6	698.7	545.7	75.9
23°	1657.8	1669.5	1605.8	1528.9	1402.2	1269.7	1104.8	946.0	779.2	609.2	73.4
24°	1833.6	1825.6	1782.6	1685.8	1550.3	1395.2	1224.0	1031.4	845.3	663.4	71.5
25°	1980.8	1979.8	1912.2	1818.1	1663.2	1491.2	1302.5	1101.2	902.0	700.1	69.1
26°	2101.1	2081.4	2028.2	1913.4	1760.4	1579.0	1367.0	1152.0	933.8	718.6	66.6
27°	2194.0	2179.9	2108.4	1989.0	1829.3	1628.6	1408.3	1177.3	948.4	724.7	63.5
28°	2256.5	2241.2	2165.1	2042.0	1867.2	1659.8	1430.2	1188.0	948.4	718.9	60.6
29°	2288.9	2268.0	2192.1	2060.3	1875.9	1663.4	1424.8	1177.5	933.6	700.9	57.1
30°	2286.4	2260.4	2180.9	2043.7	1849.9	1633.5	1394.9	1139.8	900.0	674.1	53.3
31°	2247.0	2217.9	2129.1	1987.8	1796.2	1577.1	1338.5	1089.2	854.1	639.3	49.4
32°	2167.0	2130.1	2043.5	1902.7	1713.5	1492.7	1256.5	1011.2	785.3	588.5	45.2
33°	2036.7	1999.5	1906.6	1774.5	1601.6	1385.7	1147.8	927.3	706.9	528.0	41.8
34°	1873.5	1839.5	1759.5	1626.4	1460.6	1250.2	1022.8	811.3	625.7	467.9	38.2
35°	1686.7	1632.5	1560.0	1454.7	1293.0	1081.5	887.9	703.3	542.1	404.9	34.3
36°	1434.1	1443.8	1367.0	1238.1	1104.1	938.2	752.4	586.3	453.3	345.1	30.9
37°	1210.1	1194.8	1145.9	1046.2	929.5	764.8	630.6	497.1	381.3	291.8	27.2
38°	976.2	979.6	931.6	855.0	739.3	628.9	507.5	408.3	319.1	248.3	23.8
39°	764.1	761.4	748.5	677.5	572.7	500.2	411.2	338.5	265.8	209.4	20.2
40°	575.6	580.0	549.8	507.0	446.0	386.4	327.6	269.9	219.8	176.6	15.8
42.5°	279.9	286.7	266.8	255.8	228.8	205.5	173.4	141.5	120.4	104.1	7.1
45°	136.4	132.5	130.8	125.5	119.2	106.5	94.4	81.0	70.8	61.0	4.4
47.5°	69.8	67.8	67.8	65.7	63.5	59.3	53.3	48.9	44.0	37.9	1.7
50°	20.9	20.7	20.4	20.7	19.9	20.7	21.2	21.4	19.5	19.2	0.5
52.5°	8.3	8.5	8.3	9.0	9.0	8.8	9.0	8.8	8.5	7.5	0.0
55°	2.4	2.4	2.4	2.4	2.4	2.4	2.7	2.9	2.7	2.9	0.0
57.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.0
60°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.2
62.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
65°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
67.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
70°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
72.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
75°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2



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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	0.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
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°	8.3	8.3	8.3	8.3	8.3	8.3
2.5°	9.7	8.5	7.1	5.8	5.4	5.1
5°	10.5	7.8	5.4	4.1	3.6	3.4
7.5°	11.2	7.1	4.1	2.9	2.2	1.9
10°	11.7	6.1	3.2	1.7	1.2	1.2
12.5°	11.7	4.9	2.2	1.0	0.7	0.7
15°	11.4	4.1	1.5	0.7	0.5	0.5
17.5°	11.2	3.2	1.0	0.5	0.2	0.5
20°	10.5	2.4	0.5	0.2	0.2	0.2
21°	10.2	2.2	0.5	0.2	0.2	0.2
22°	9.7	1.9	0.2	0.0	0.2	0.2
23°	9.2	1.5	0.2	0.0	0.0	0.0
24°	8.5	1.2	0.2	0.0	0.0	0.0
25°	8.0	1.2	0.2	0.0	0.0	0.0
26°	7.5	0.7	0.0	0.0	0.0	0.0
27°	6.8	0.5	0.0	0.0	0.0	0.0
28°	6.3	0.5	0.0	0.0	0.0	0.0
29°	5.6	0.5	0.0	0.0	0.0	0.0
30°	4.9	0.5	0.0	0.0	0.0	0.0
31°	3.9	0.2	0.0	0.0	0.0	0.0
32°	3.2	0.2	0.0	0.0	0.0	0.0
33°	2.2	0.2	0.0	0.0	0.0	0.0
34°	1.5	0.2	0.0	0.0	0.0	0.0
35°	1.2	0.2	0.0	0.0	0.0	0.0
36°	0.7	0.2	0.0	0.0	0.0	0.2
37°	0.7	0.2	0.0	0.0	0.0	0.2
38°	0.5	0.2	0.0	0.0	0.0	0.2
39°	0.2	0.2	0.0	0.0	0.0	0.2
40°	0.2	0.2	0.0	0.0	0.0	0.2
42.5°	0.0	0.2	0.0	0.0	0.2	0.5
45°	0.0	0.2	0.0	0.0	0.2	0.5
47.5°	0.0	0.2	0.0	0.0	0.5	0.5
50°	0.0	0.2	0.2	0.2	0.5	0.7
52.5°	0.0	0.5	0.2	0.5	0.7	1.0
55°	0.2	0.5	0.5	0.7	1.0	1.2
57.5°	0.2	0.7	0.7	1.0	1.2	1.2
60°	0.5	0.7	1.0	1.0	1.5	1.5
62.5°	0.5	1.0	1.0	1.0	1.5	1.5
65°	0.5	1.0	1.0	1.2	1.5	1.5
67.5°	0.5	1.0	1.0	1.0	1.2	1.5
70°	0.5	1.0	0.7	1.0	1.2	1.2
72.5°	0.5	1.0	0.7	0.7	1.0	1.2
75°	0.5	1.0	0.7	0.7	1.0	1.0
77.5°	0.5	0.7	0.7	0.5	0.7	0.7
80°	0.5	0.7	0.5	0.5	0.7	0.7



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.5	0.7	0.5	0.2	0.5	0.5
85°	0.5	0.7	0.5	0.2	0.2	0.2
87.5°	0.5	0.7	0.2	0.0	0.0	0.2
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)