

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: P1336895

Luminaire Tested: P3A05R209727DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1336895
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: P3A05R209727DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R20 optic, 2700K CCT AND, 97CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

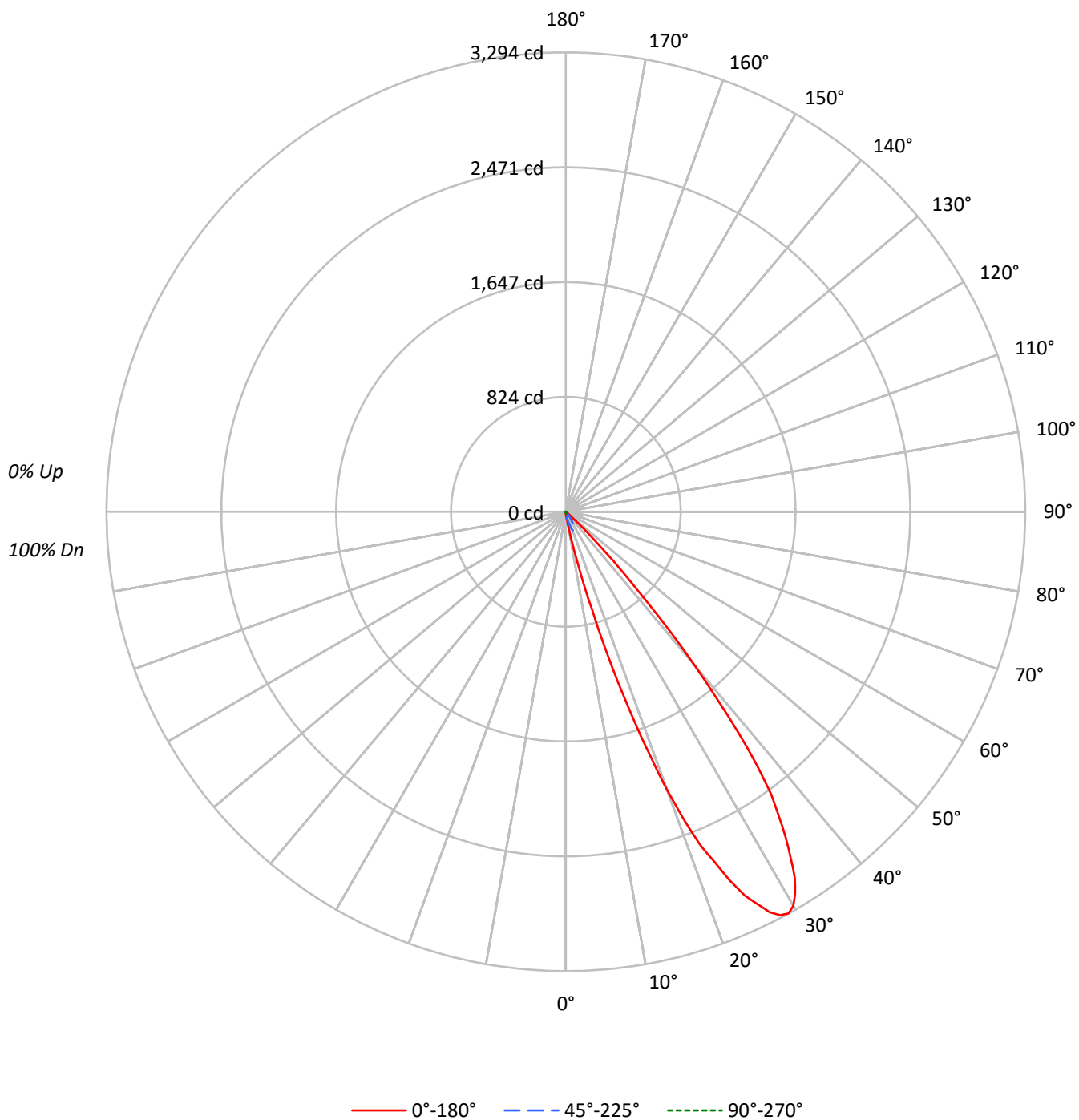
Lumens per Lamp: N/A
Luminaire Lumens: 462.0 lumens
Efficiency: N/A
Efficacy: 64.2 lumens/watt
Spacing Criteria (0/90/45): 2.3 / 0.53 / 1.19
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	113	109	107	104	110	107	105	102	103	101	99		99	98	96		96
2	106	100	96	92	104	99	94	91	95	92	89		92	89	87		89
3	99	92	86	81	97	90	85	81	88	83	79		85	81	78		83
4	93	84	78	73	91	83	77	72	81	76	71		79	74	71		77
5	87	77	70	65	85	76	70	65	74	69	64		72	68	64		71
6	81	71	64	59	80	70	63	58	68	62	58		67	62	58		65
7	76	65	58	53	74	64	57	53	63	57	52		62	56	52		60
8	71	60	53	48	70	59	52	48	58	52	47		57	51	47		56
9	66	55	48	43	65	54	48	43	53	47	43		52	47	43		51
10	62	51	44	39	61	50	44	39	49	43	39		48	43	39		48

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	3487	3487	3487	3487	3487
5°	8034	5987	3324	2025	1761
10°	25295	10443	2716	1113	846
15°	163860	19319	1998	386	91
20°	494523	33066	1377	0	0
25°	734413	33365	823	0	0
30°	825899	25371	329	0	0
35°	712597	15151	214	0	0
40°	410340	5153	0	0	0
45°	100072	2078	124	0	124
50°	12008	580	136	136	443
55°	1606	0	306	306	650
60°	175	0	570	570	921
65°	208	208	882	882	1297
70°	256	256	1090	1090	1346
75°	0	339	1440	1101	1440
80°	0	505	1642	1010	1642
85°	0	1006	3271	1006	1006

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°

Vertical Angle: 45°

Luminance: 100724 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.1	0.5
10°-20°	42.8	9.3
20°-30°	186.6	40.4
30°-40°	187.9	40.7
40°-50°	37.7	8.2
50°-60°	1.9	0.4
60°-70°	1.2	0.3
70°-80°	1.1	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°	231.6	50.1
0°-40°	419.5	90.8
0°-60°	459.1	99.4
0°-90°	462.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	462.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	16	16	16	16	16	
5°	36	27	15	9	8	6
15°	722	85	9	2	0	283
25°	3035	138	3	0	0	1369
35°	2662	57	1	0	0	1584
45°	323	7	0	0	0	351
55°	4	0	1	1	2	8
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°	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9
2.5°	23.9	23.9	23.5	23.5	23.1	23.5	22.6	23.1	23.1	22.6	20.5
5°	36.5	37.3	36.9	36.9	36.5	36.9	36.0	35.2	34.4	34.4	27.2
7.5°	59.9	59.5	58.7	59.1	57.8	57.0	56.2	55.7	53.2	52.0	35.6
10°	113.6	116.1	114.0	113.6	106.0	105.6	100.6	93.5	87.2	83.8	46.9
12.5°	312.7	326.1	305.1	295.1	289.2	266.6	256.9	232.2	208.3	190.3	59.5
15°	721.8	754.9	712.5	715.5	680.3	615.7	559.1	510.5	453.1	395.3	85.1
17.5°	1414.2	1387.4	1364.3	1325.3	1253.7	1158.9	1037.0	913.3	806.4	694.5	118.6
20°	2119.2	2095.3	2042.9	1957.8	1866.4	1726.0	1581.0	1395.3	1215.5	1047.0	141.7
21°	2361.9	2353.9	2268.0	2215.6	2074.8	1940.6	1773.4	1574.7	1372.3	1172.8	145.4
22°	2578.6	2530.8	2484.7	2407.1	2267.1	2121.3	1935.2	1726.0	1506.4	1284.7	145.9
23°	2728.6	2706.8	2663.2	2575.6	2436.5	2265.1	2068.9	1850.1	1618.7	1363.9	144.6
24°	2894.6	2866.9	2803.2	2701.0	2560.5	2391.2	2167.4	1950.3	1698.8	1430.5	141.3
25°	3035.4	2992.3	2916.8	2806.6	2653.2	2478.4	2253.3	2014.8	1754.5	1475.4	137.9
26°	3126.8	3103.3	3006.5	2886.6	2722.3	2542.1	2312.4	2064.3	1790.6	1495.9	132.4
27°	3222.0	3178.8	3083.6	2945.7	2767.6	2583.6	2345.9	2088.2	1803.2	1496.8	125.7
28°	3276.4	3229.5	3121.8	2976.8	2796.9	2606.7	2365.2	2095.7	1800.6	1483.8	117.8
29°	3293.6	3234.5	3129.3	2981.8	2804.1	2608.3	2362.3	2084.8	1778.4	1451.9	108.6
30°	3261.8	3201.4	3101.7	2957.9	2781.4	2587.4	2335.0	2048.8	1739.0	1406.2	100.2
31°	3192.2	3141.1	3044.7	2900.5	2731.1	2538.3	2273.4	1989.7	1672.0	1345.0	90.5
32°	3100.4	3050.1	2955.4	2825.0	2652.8	2458.3	2189.2	1897.5	1593.2	1253.7	80.9
33°	2962.5	2933.6	2848.5	2724.0	2551.7	2343.9	2076.0	1787.2	1480.8	1152.2	72.5
34°	2822.9	2786.5	2726.9	2590.7	2405.5	2198.0	1928.5	1635.1	1343.8	1038.6	64.5
35°	2662.0	2640.2	2546.7	2437.7	2251.6	2039.6	1771.7	1487.1	1184.1	912.1	56.6
36°	2506.1	2472.5	2366.1	2250.8	2070.1	1840.9	1576.4	1309.0	1046.2	793.4	48.2
37°	2279.7	2228.6	2152.7	2031.2	1819.9	1624.6	1383.2	1135.0	876.4	665.2	39.0
38°	2013.6	1989.7	1884.5	1762.1	1587.3	1402.0	1163.1	952.7	723.0	555.4	29.8
39°	1699.6	1699.2	1598.6	1510.2	1339.2	1172.3	956.9	773.3	596.9	447.2	23.1
40°	1433.5	1384.0	1322.0	1210.9	1079.7	938.0	749.4	605.2	463.2	360.5	18.0
42.5°	751.5	747.3	710.9	627.5	554.1	470.7	374.3	311.8	243.9	198.7	11.3
45°	322.7	324.8	299.7	287.1	258.6	223.8	189.0	157.6	135.0	109.4	6.7
47.5°	81.7	78.4	77.5	80.5	80.5	78.0	70.0	65.8	60.8	55.7	3.8
50°	35.2	34.4	33.5	33.5	31.4	30.2	28.1	25.6	23.5	21.0	1.7
52.5°	13.0	13.4	13.8	13.4	13.4	13.0	13.0	12.6	11.3	10.1	0.8
55°	4.2	4.2	4.2	4.6	4.6	5.0	5.0	5.0	5.0	4.6	0.0
57.5°	0.8	0.8	1.3	1.3	1.3	1.3	1.3	1.3	1.7	1.7	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°	15.9	15.9	15.9	15.9	15.9	15.9
2.5°	18.4	16.3	13.8	11.7	11.3	10.9
5°	20.5	15.1	11.3	9.2	8.4	8.0
7.5°	22.2	13.8	9.2	6.7	5.9	5.4
10°	23.1	12.2	7.5	5.0	3.8	3.8
12.5°	23.5	10.5	5.4	3.4	2.1	2.1
15°	23.1	8.8	4.2	1.7	0.4	0.4
17.5°	21.0	7.1	2.5	0.4	0.0	0.0
20°	18.0	5.9	1.7	0.0	0.0	0.0
21°	17.2	5.0	1.3	0.0	0.0	0.0
22°	15.9	4.6	0.8	0.0	0.0	0.0
23°	14.7	4.2	0.8	0.0	0.0	0.0
24°	13.4	3.8	0.4	0.0	0.0	0.0
25°	12.6	3.4	0.4	0.0	0.0	0.0
26°	11.7	2.9	0.4	0.0	0.0	0.0
27°	10.5	2.5	0.0	0.0	0.0	0.0
28°	9.6	2.1	0.0	0.0	0.0	0.0
29°	8.4	1.7	0.0	0.0	0.0	0.0
30°	7.1	1.3	0.0	0.0	0.0	0.0
31°	5.9	1.3	0.0	0.0	0.0	0.0
32°	5.0	0.8	0.0	0.0	0.0	0.0
33°	4.2	0.8	0.0	0.0	0.0	0.0
34°	3.8	0.8	0.0	0.0	0.0	0.0
35°	3.4	0.8	0.0	0.0	0.0	0.0
36°	2.5	0.4	0.0	0.0	0.0	0.0
37°	2.1	0.4	0.0	0.0	0.0	0.0
38°	1.7	0.4	0.0	0.0	0.0	0.0
39°	1.3	0.0	0.0	0.0	0.0	0.0
40°	1.3	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	0.8
50°	0.0	0.4	0.4	0.4	0.8	1.3
52.5°	0.0	0.8	0.4	0.4	1.3	1.3
55°	0.4	0.8	0.4	0.8	1.7	1.7
57.5°	0.4	0.8	0.8	1.3	1.7	2.1
60°	0.8	1.3	1.3	1.3	2.1	2.1
62.5°	0.8	1.3	1.7	1.7	2.1	2.5
65°	0.8	1.7	1.7	1.7	2.1	2.5
67.5°	1.3	1.7	1.7	1.7	2.1	2.5
70°	1.3	1.7	1.7	1.7	2.1	2.1
72.5°	1.3	1.7	1.3	1.7	1.7	2.1
75°	1.3	1.7	1.3	1.3	1.7	1.7
77.5°	0.8	1.3	1.3	0.8	1.3	1.3
80°	0.8	1.3	0.8	0.8	1.3	1.3



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.8	1.3	0.8	0.4	0.8	0.8
85°	0.8	1.3	0.8	0.4	0.4	0.4
87.5°	0.8	1.3	0.8	0.4	0.0	0.4
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)