

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: P1336475

Luminaire Tested: P3A05R159830DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1336475
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: P3A05R159830DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R15 optic, 3000K CCT AND, 98CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

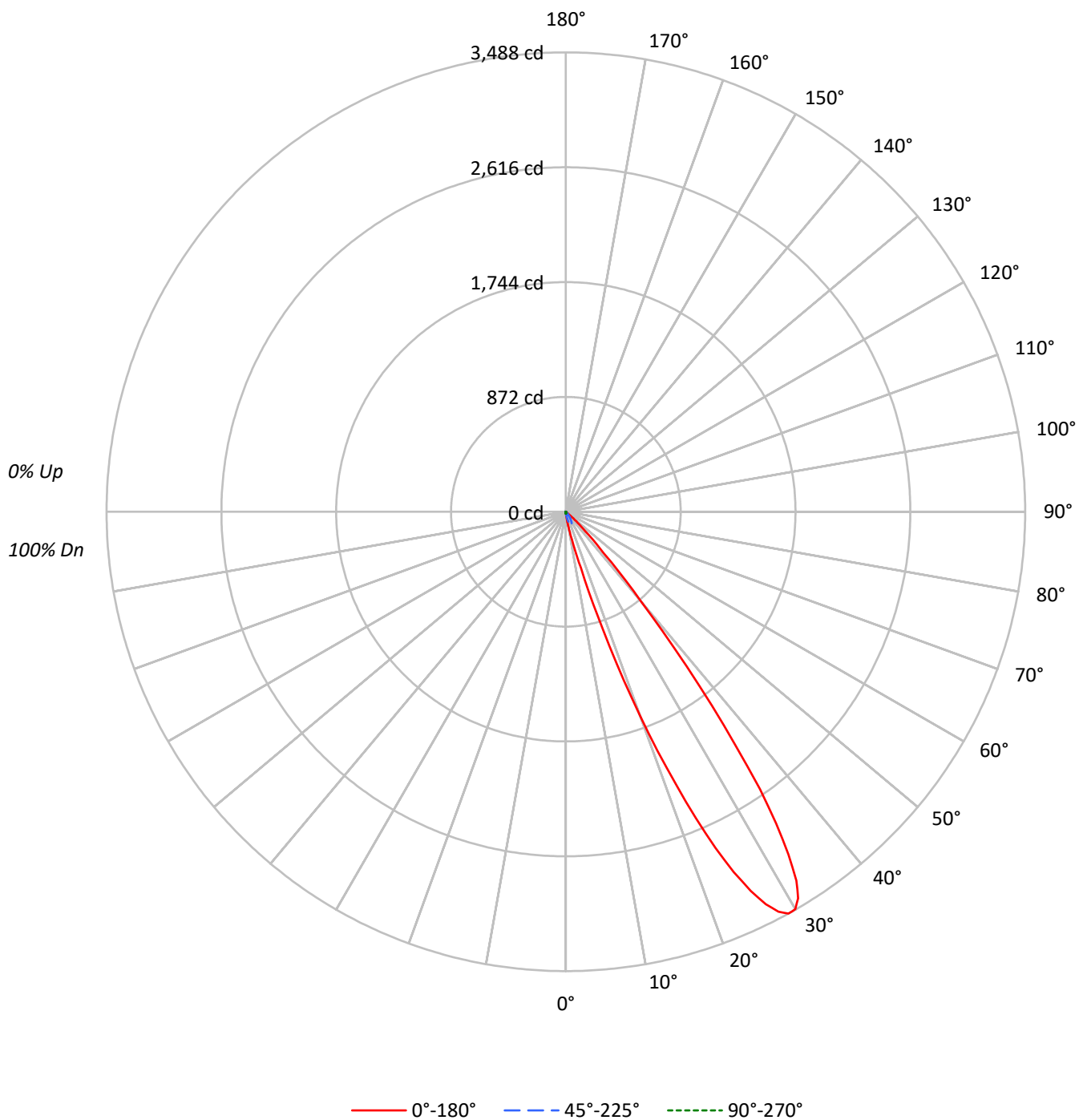
Lumens per Lamp: N/A
Luminaire Lumens: 381.0 lumens
Efficiency: N/A
Efficacy: 52.9 lumens/watt
Spacing Criteria (0/90/45): 2.35 / 0.49 / 1.26
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	2763	2763	2763	2763	2763
5°	5965	4402	2619	1387	1145
10°	26408	8328	2071	579	423
15°	99864	19274	1430	250	159
20°	384077	27162	863	93	93
25°	730373	25477	460	0	0
30°	882288	20560	177	0	0
35°	688130	14000	107	0	0
40°	251128	6899	115	0	115
45°	64472	2078	124	0	217
50°	10882	239	136	136	375
55°	1415	0	268	421	726
60°	175	175	482	658	965
65°	208	208	778	986	1141
70°	256	256	962	962	1218
75°	339	339	1271	932	1271
80°	0	505	1389	884	1389
85°	0	1006	2768	1006	1006

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 64472 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.7	0.5
10°-20°	29.2	7.7
20°-30°	161.9	42.5
30°-40°	156.4	41.1
40°-50°	27.2	7.1
50°-60°	2.0	0.5
60°-70°	1.2	0.3
70°-80°	0.9	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°	192.8	50.6
0°-40°	349.3	91.7
0°-60°	378.4	99.3
0°-90°	381.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	381.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	13	13	13	13	13	
5°	27	20	12	6	5	5
15°	440	85	6	1	1	196
25°	3019	105	2	0	0	1350
35°	2571	52	0	0	0	1478
45°	208	7	0	0	1	223
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°	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6
2.5°	18.5	17.8	18.2	18.2	18.2	18.2	18.2	17.4	17.4	17.8	15.9
5°	27.1	27.1	26.7	27.1	27.1	26.7	25.9	25.6	25.6	24.8	20.0
7.5°	54.1	53.4	53.4	52.6	48.9	47.8	47.1	45.2	41.9	41.1	25.9
10°	118.6	119.0	116.4	113.0	112.7	107.1	105.3	101.9	95.6	89.3	37.4
12.5°	215.3	210.5	204.2	204.6	193.8	190.1	181.6	172.3	162.7	152.7	61.5
15°	439.9	426.2	434.4	414.4	391.7	366.2	340.2	307.6	279.8	250.2	84.9
17.5°	926.5	939.9	917.3	831.7	779.0	717.1	630.0	545.9	474.0	416.2	103.8
20°	1645.9	1665.6	1588.8	1514.3	1386.5	1247.1	1101.8	937.3	779.8	643.4	116.4
21°	1946.5	1934.6	1903.1	1783.8	1636.3	1474.7	1296.8	1115.2	924.3	747.2	117.5
22°	2237.0	2242.6	2169.2	2044.3	1890.9	1711.9	1494.7	1270.5	1064.8	831.7	115.6
23°	2526.5	2544.3	2447.2	2330.1	2137.0	1935.0	1683.7	1441.7	1187.5	928.4	111.9
24°	2794.5	2782.2	2716.6	2569.1	2362.7	2126.2	1865.3	1571.8	1288.3	1011.0	109.0
25°	3018.7	3017.2	2914.2	2770.7	2534.7	2272.6	1985.0	1678.2	1374.6	1067.0	105.3
26°	3202.1	3172.1	3090.9	2916.0	2682.9	2406.4	2083.2	1755.6	1423.2	1095.2	101.5
27°	3343.7	3322.2	3213.3	3031.3	2787.8	2482.0	2146.2	1794.2	1445.4	1104.4	96.7
28°	3439.0	3415.6	3299.6	3112.1	2845.6	2529.5	2179.6	1810.5	1445.4	1095.5	92.3
29°	3488.2	3456.4	3340.7	3139.9	2858.9	2535.0	2171.4	1794.5	1422.8	1068.1	87.1
30°	3484.5	3444.9	3323.7	3114.7	2819.3	2489.4	2125.9	1737.1	1371.7	1027.4	81.2
31°	3424.5	3380.0	3244.8	3029.4	2737.4	2403.5	2039.9	1660.0	1301.6	974.4	75.2
32°	3302.6	3246.2	3114.3	2899.7	2611.4	2274.8	1915.0	1541.0	1196.7	896.9	68.9
33°	3103.9	3047.2	2905.6	2704.4	2440.9	2111.8	1749.3	1413.2	1077.4	804.6	63.7
34°	2855.2	2803.3	2681.4	2478.7	2225.9	1905.3	1558.8	1236.4	953.6	713.1	58.2
35°	2570.6	2488.0	2377.5	2217.0	1970.6	1648.1	1353.1	1071.8	826.1	617.1	52.3
36°	2185.5	2200.4	2083.2	1886.8	1682.6	1429.8	1146.7	893.6	690.8	525.9	47.1
37°	1844.2	1820.8	1746.3	1594.4	1416.5	1165.6	961.0	757.5	581.1	444.7	41.5
38°	1487.7	1492.8	1419.8	1303.1	1126.7	958.4	773.5	622.3	486.2	378.4	36.3
39°	1164.5	1160.4	1140.8	1032.5	872.8	762.4	626.7	515.9	405.1	319.1	30.8
40°	877.3	883.9	838.0	772.7	679.7	588.9	499.2	411.4	335.0	269.1	24.1
42.5°	426.6	437.0	406.6	389.9	348.8	313.2	264.3	215.7	183.5	158.6	10.7
45°	207.9	202.0	199.4	191.2	181.6	162.3	143.8	123.4	107.8	93.0	6.7
47.5°	106.4	103.4	103.4	100.1	96.7	90.4	81.2	74.5	67.1	57.8	2.6
50°	31.9	31.5	31.1	31.5	30.4	31.5	32.2	32.6	29.6	29.3	0.7
52.5°	12.6	13.0	12.6	13.7	13.7	13.3	13.7	13.3	13.0	11.5	0.0
55°	3.7	3.7	3.7	3.7	3.7	3.7	4.1	4.4	4.1	4.4	0.0
57.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.0
60°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.0	0.4
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	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
75°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	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°	12.6	12.6	12.6	12.6	12.6	12.6
2.5°	14.8	13.0	10.7	8.9	8.2	7.8
5°	15.9	11.9	8.2	6.3	5.6	5.2
7.5°	17.0	10.7	6.3	4.4	3.3	3.0
10°	17.8	9.3	4.8	2.6	1.9	1.9
12.5°	17.8	7.4	3.3	1.5	1.1	1.1
15°	17.4	6.3	2.2	1.1	0.7	0.7
17.5°	17.0	4.8	1.5	0.7	0.4	0.7
20°	15.9	3.7	0.7	0.4	0.4	0.4
21°	15.6	3.3	0.7	0.4	0.4	0.4
22°	14.8	3.0	0.4	0.0	0.4	0.4
23°	14.1	2.2	0.4	0.0	0.0	0.0
24°	13.0	1.9	0.4	0.0	0.0	0.0
25°	12.2	1.9	0.4	0.0	0.0	0.0
26°	11.5	1.1	0.0	0.0	0.0	0.0
27°	10.4	0.7	0.0	0.0	0.0	0.0
28°	9.6	0.7	0.0	0.0	0.0	0.0
29°	8.5	0.7	0.0	0.0	0.0	0.0
30°	7.4	0.7	0.0	0.0	0.0	0.0
31°	5.9	0.4	0.0	0.0	0.0	0.0
32°	4.8	0.4	0.0	0.0	0.0	0.0
33°	3.3	0.4	0.0	0.0	0.0	0.0
34°	2.2	0.4	0.0	0.0	0.0	0.0
35°	1.9	0.4	0.0	0.0	0.0	0.0
36°	1.1	0.4	0.0	0.0	0.0	0.4
37°	1.1	0.4	0.0	0.0	0.0	0.4
38°	0.7	0.4	0.0	0.0	0.0	0.4
39°	0.4	0.4	0.0	0.0	0.0	0.4
40°	0.4	0.4	0.0	0.0	0.0	0.4
42.5°	0.0	0.4	0.0	0.0	0.4	0.7
45°	0.0	0.4	0.0	0.0	0.4	0.7
47.5°	0.0	0.4	0.0	0.0	0.7	0.7
50°	0.0	0.4	0.4	0.4	0.7	1.1
52.5°	0.0	0.7	0.4	0.7	1.1	1.5
55°	0.4	0.7	0.7	1.1	1.5	1.9
57.5°	0.4	1.1	1.1	1.5	1.9	1.9
60°	0.7	1.1	1.5	1.5	2.2	2.2
62.5°	0.7	1.5	1.5	1.5	2.2	2.2
65°	0.7	1.5	1.5	1.9	2.2	2.2
67.5°	0.7	1.5	1.5	1.5	1.9	2.2
70°	0.7	1.5	1.1	1.5	1.9	1.9
72.5°	0.7	1.5	1.1	1.1	1.5	1.9
75°	0.7	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	0.4	0.0	0.0	0.4
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)