

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: P1345955

Luminaire Tested: P3A13R409030DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1345955
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-64)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A13R409030DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R40 optic, 3000K CCT AND, 90CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

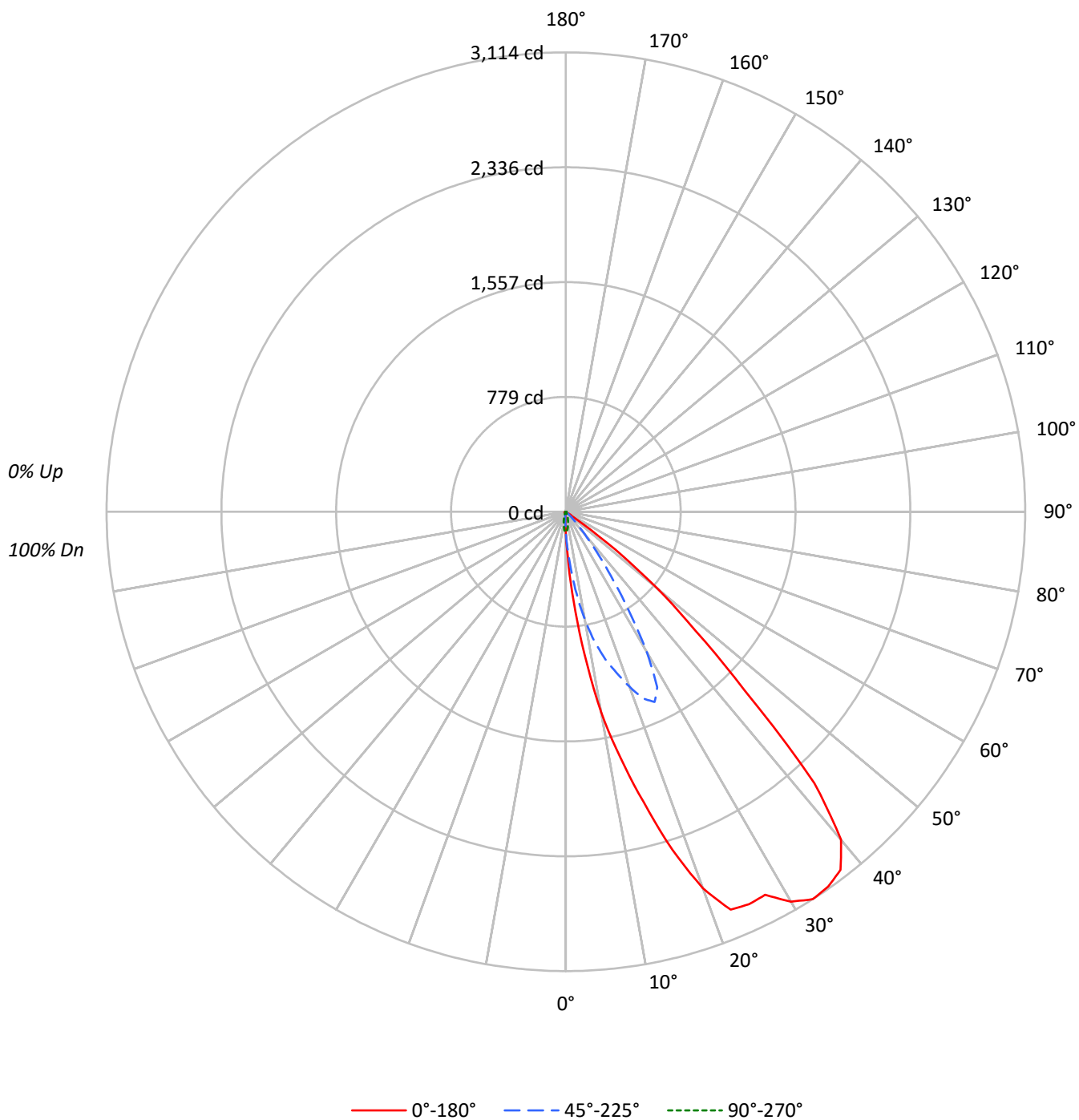
Lumens per Lamp: N/A
Luminaire Lumens: 1149.0 lumens
Efficiency: N/A
Efficacy: 78.7 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.42 / 1.24
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.6
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	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91		
2	105	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82		
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	74		
4	92	83	77	71	90	82	76	71	80	74	70	78	73	69	76	72	68	67		
5	86	76	69	64	84	75	68	64	73	67	63	71	66	62	70	65	62	60		
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	60	56	54		
7	75	64	57	52	74	63	56	52	62	56	51	61	55	51	59	54	51	49		
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44		
9	66	54	47	42	65	54	47	42	53	46	42	52	46	42	51	46	42	40		
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	37		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	29822	29822	29822	29822	29822
5°	134448	85714	26722	10258	7484
10°	308344	165639	18815	3674	2806
15°	462750	235007	11691	1975	1771
20°	633602	294586	6791	1143	1353
25°	710291	344221	3532	944	1186
30°	772575	277866	1469	734	1241
35°	830301	142198	509	1044	1553
40°	830613	56706	286	1116	1947
45°	530319	18979	589	1799	2698
50°	275300	2320	989	2320	3309
55°	23779	382	1109	2982	4091
60°	833	439	1272	3421	4693
65°	986	519	2024	3528	5033
70°	641	641	2500	3719	5001
75°	847	847	2457	4151	5761
80°	1263	1263	3662	3662	4925
85°	0	2516	7296	4780	4780

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 530319 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.5	2.3
10°-20°	155.5	13.5
20°-30°	340.6	29.6
30°-40°	388.0	33.8
40°-50°	204.7	17.8
50°-60°	24.1	2.1
60°-70°	4.3	0.4
70°-80°	3.6	0.3
80°-90°	1.6	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°	522.6	45.5
0°-40°	910.6	79.3
0°-60°	1139.5	99.2
0°-90°	1149.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1149.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	136	136	136	136	136	
5°	611	389	121	47	34	82
15°	2038	1035	52	9	8	601
25°	2936	1423	15	4	5	1353
35°	3102	531	2	4	6	1922
45°	1710	61	2	6	9	1379
55°	62	1	3	8	11	193
65°	2	1	4	7	10	2
75°	1	1	3	5	7	1
85°	0	1	3	2	2	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	67.5°
0°	136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0
2.5°	303.0	303.0	302.0	293.3	292.3	291.3	275.8	271.9	253.5	240.8	183.5
5°	610.8	597.2	596.3	580.7	554.5	519.5	497.2	461.3	426.3	389.4	226.3
7.5°	973.1	984.7	952.7	936.2	877.9	836.1	772.0	715.7	637.1	563.2	261.2
10°	1384.8	1364.4	1332.4	1300.3	1237.2	1162.4	1067.3	967.2	853.6	743.9	280.7
12.5°	1706.2	1680.0	1660.6	1616.9	1554.8	1458.6	1345.0	1211.0	1060.5	902.2	279.7
15°	2038.4	2012.1	1968.4	1929.6	1837.3	1729.6	1606.2	1429.5	1245.0	1035.2	259.3
17.5°	2403.5	2369.5	2321.0	2261.7	2172.4	2052.9	1896.6	1681.0	1419.8	1144.0	222.4
20°	2715.2	2694.8	2646.3	2576.4	2489.0	2372.4	2191.8	1952.9	1634.4	1262.4	176.7
22.5°	2919.2	2900.7	2867.7	2806.5	2740.5	2616.2	2451.1	2188.9	1814.0	1370.2	134.0
25°	2935.7	2927.9	2919.2	2898.8	2859.0	2770.6	2609.4	2326.8	1925.7	1422.7	99.1
27.5°	2926.9	2924.0	2922.1	2911.4	2885.2	2797.8	2632.7	2347.2	1911.2	1341.1	72.8
30°	3051.2	3042.5	3037.6	3002.7	2933.7	2798.8	2583.2	2237.4	1698.5	1097.4	52.4
32.5°	3114.4	3112.4	3107.6	3073.6	2976.5	2800.7	2499.6	1972.3	1346.9	792.4	35.9
35°	3101.7	3092.0	3074.5	3011.4	2876.4	2656.0	2229.7	1575.1	972.1	531.2	23.3
37.5°	3059.0	3036.7	3002.7	2889.1	2709.4	2408.4	1808.2	1159.5	661.3	343.8	13.6
40°	2901.7	2871.6	2818.2	2679.3	2443.3	1985.0	1337.2	783.7	434.1	198.1	3.9
42.5°	2494.8	2455.9	2417.1	2261.7	1991.8	1480.0	879.8	484.6	247.6	108.8	1.0
45°	1710.1	1661.6	1608.2	1495.5	1279.0	896.3	523.4	272.9	128.2	61.2	1.0
47.5°	1187.7	1165.3	1072.1	928.4	711.8	474.9	270.9	134.0	68.0	28.2	1.0
50°	807.0	781.7	673.0	534.1	378.7	227.2	124.3	67.0	30.1	6.8	1.0
52.5°	423.4	392.3	323.4	246.7	153.4	95.2	54.4	29.1	8.7	1.0	1.0
55°	62.2	57.3	46.6	37.9	34.0	26.2	15.5	6.8	1.0	1.0	1.9
57.5°	1.9	1.9	1.9	1.9	2.9	2.9	1.9	1.0	1.0	1.0	1.9
60°	1.9	1.9	1.9	1.9	1.9	1.0	1.0	1.0	1.0	1.0	1.9
62.5°	1.9	1.9	1.9	1.9	1.9	1.0	1.0	1.0	1.0	1.0	1.9
65°	1.9	1.9	1.9	1.9	1.9	1.0	1.0	1.0	1.0	1.0	1.9
67.5°	1.9	1.9	1.9	1.9	1.0	1.0	1.0	1.0	1.0	1.9	2.9
70°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.9
72.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.9	2.9
75°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.9
77.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.9	2.9
80°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.9
82.5°	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0	1.0	2.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.9
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):

	90°	112.5°	135°	157.5°	180°
0°	136.0	136.0	136.0	136.0	136.0
2.5°	134.0	99.1	76.7	66.0	65.1
5°	121.4	70.9	46.6	35.9	34.0
7.5°	102.9	49.5	27.2	19.4	18.5
10°	84.5	34.0	16.5	13.6	12.6
12.5°	67.0	22.3	11.7	10.7	9.7
15°	51.5	14.6	8.7	7.8	7.8
17.5°	38.8	9.7	6.8	6.8	6.8
20°	29.1	6.8	4.9	5.8	5.8
22.5°	20.4	4.9	3.9	4.9	4.9
25°	14.6	3.9	3.9	4.9	4.9
27.5°	9.7	2.9	2.9	3.9	4.9
30°	5.8	1.9	2.9	3.9	4.9
32.5°	2.9	1.9	2.9	4.9	4.9
35°	1.9	2.9	3.9	4.9	5.8
37.5°	1.0	2.9	3.9	5.8	5.8
40°	1.0	2.9	3.9	5.8	6.8
42.5°	1.9	3.9	4.9	6.8	7.8
45°	1.9	3.9	5.8	7.8	8.7
47.5°	1.9	3.9	6.8	8.7	8.7
50°	2.9	4.9	6.8	8.7	9.7
52.5°	2.9	4.9	6.8	9.7	10.7
55°	2.9	4.9	7.8	9.7	10.7
57.5°	2.9	5.8	7.8	9.7	10.7
60°	2.9	4.9	7.8	9.7	10.7
62.5°	3.9	4.9	6.8	9.7	9.7
65°	3.9	4.9	6.8	9.7	9.7
67.5°	3.9	4.9	6.8	8.7	8.7
70°	3.9	4.9	5.8	7.8	7.8
72.5°	3.9	4.9	5.8	6.8	7.8
75°	2.9	3.9	4.9	5.8	6.8
77.5°	2.9	3.9	3.9	5.8	5.8
80°	2.9	2.9	2.9	3.9	3.9
82.5°	2.9	2.9	1.9	2.9	2.9
85°	2.9	1.9	1.9	1.9	1.9
87.5°	1.9	1.9	1.0	1.0	1.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)