

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: P1346003

Luminaire Tested: P3A13R409050DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1346003
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: P3A13R409050DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R40 optic, 5000K CCT AND, 90CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

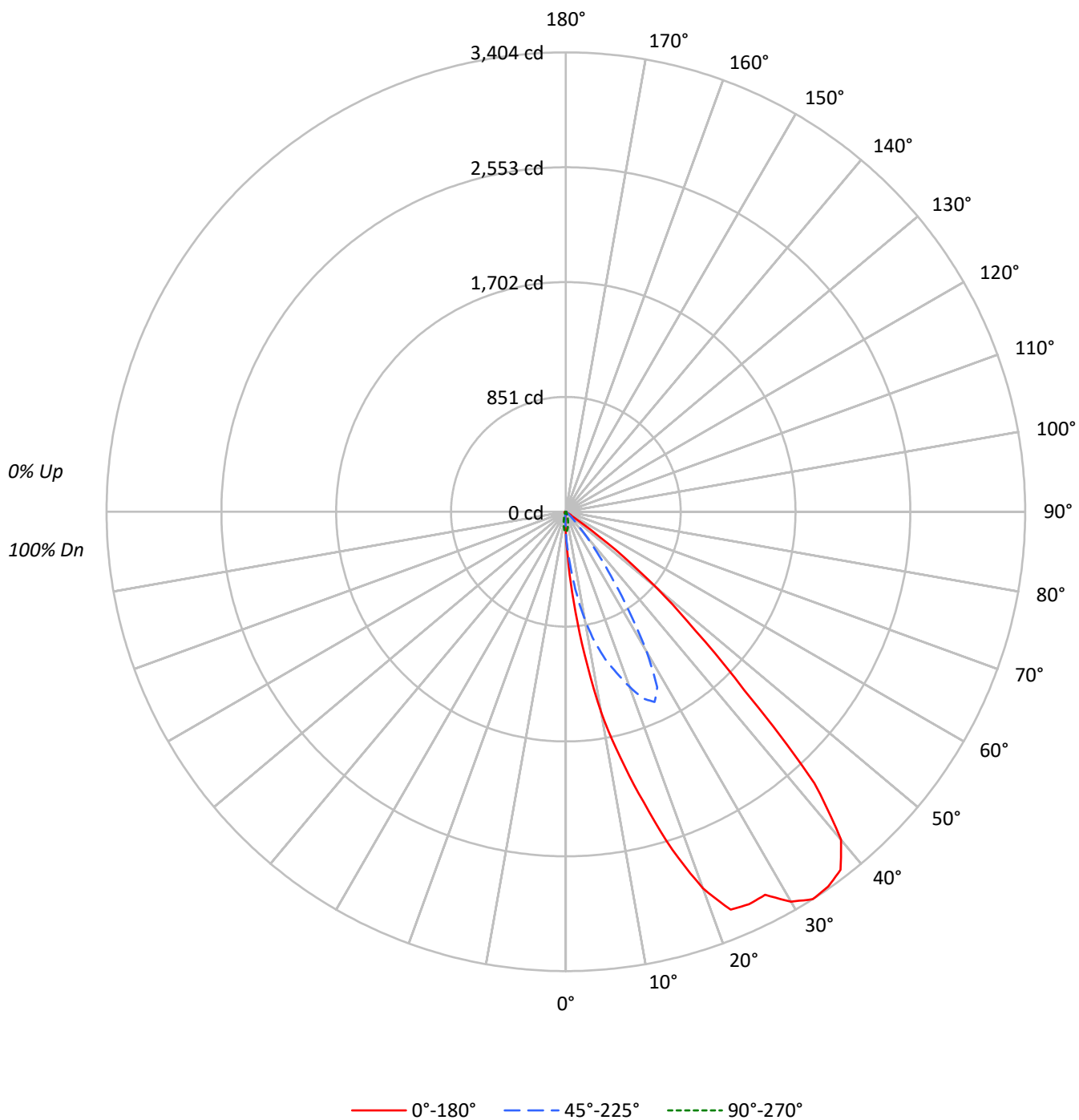
Lumens per Lamp: N/A
Luminaire Lumens: 1256.0 lumens
Efficiency: N/A
Efficacy: 86.0 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.42 / 1.24
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	51	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°	32585	32585	32585	32585	32585
5°	146973	93704	29210	11226	8188
10°	337068	181048	20574	4008	3073
15°	505837	256891	12781	2179	1930
20°	692617	322028	7421	1237	1493
25°	776440	376280	3847	1016	1282
30°	844535	303743	1621	810	1342
35°	907637	155449	562	1124	1713
40°	907958	62002	315	1202	2118
45°	579719	20746	651	1985	2977
50°	300920	2524	1092	2524	3616
55°	25958	421	1223	3250	4473
60°	921	482	1403	3728	5131
65°	1090	571	2179	3840	5500
70°	705	705	2693	4103	5450
75°	932	932	2711	4490	6270
80°	1389	1389	4041	4041	5304
85°	0	2768	8051	5284	5284

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 579719 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.9	2.3
10°-20°	170.0	13.5
20°-30°	372.3	29.6
30°-40°	424.1	33.8
40°-50°	223.8	17.8
50°-60°	26.4	2.1
60°-70°	4.7	0.4
70°-80°	3.9	0.3
80°-90°	1.8	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°	571.3	45.5
0°-40°	995.4	79.3
0°-60°	1245.6	99.2
0°-90°	1256.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1256.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	149	149	149	149	149	
5°	668	426	133	51	37	90
15°	2228	1132	56	10	8	656
25°	3209	1555	16	4	5	1479
35°	3391	581	2	4	6	2102
45°	1869	67	2	6	10	1507
55°	68	1	3	8	12	211
65°	2	1	4	7	11	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°	148.6	148.6	148.6	148.6	148.6	148.6	148.6	148.6	148.6	148.6	148.6
2.5°	331.2	331.2	330.1	320.6	319.5	318.5	301.5	297.2	277.1	263.3	200.6
5°	667.7	652.9	651.8	634.8	606.1	567.9	543.5	504.2	466.0	425.7	247.3
7.5°	1063.7	1076.4	1041.4	1023.3	959.6	914.0	843.9	782.4	696.4	615.7	285.6
10°	1513.8	1491.5	1456.4	1421.4	1352.4	1270.7	1166.6	1057.3	933.1	813.1	306.8
12.5°	1865.1	1836.5	1815.2	1767.5	1699.5	1594.4	1470.2	1323.8	1159.2	986.2	305.7
15°	2228.2	2199.5	2151.8	2109.3	2008.5	1890.6	1755.8	1562.6	1360.9	1131.6	283.4
17.5°	2627.3	2590.2	2537.1	2472.3	2374.7	2244.1	2073.2	1837.5	1552.0	1250.5	243.1
20°	2968.1	2945.8	2892.7	2816.3	2720.7	2593.4	2395.9	2134.8	1786.6	1380.0	193.2
22.5°	3191.0	3170.8	3134.8	3067.9	2995.7	2859.8	2679.3	2392.7	1983.0	1497.8	146.5
25°	3209.1	3200.6	3191.0	3168.7	3125.2	3028.6	2852.4	2543.5	2105.1	1555.2	108.3
27.5°	3199.5	3196.3	3194.2	3182.5	3153.9	3058.3	2877.9	2565.8	2089.1	1466.0	79.6
30°	3335.4	3325.8	3320.5	3282.3	3206.9	3059.4	2823.7	2445.8	1856.6	1199.6	57.3
32.5°	3404.4	3402.3	3397.0	3359.8	3253.6	3061.5	2732.4	2156.0	1472.4	866.2	39.3
35°	3390.6	3380.0	3360.9	3291.9	3144.3	2903.3	2437.3	1721.8	1062.6	580.7	25.5
37.5°	3343.9	3319.5	3282.3	3158.1	2961.7	2632.6	1976.6	1267.5	722.9	375.8	14.9
40°	3171.9	3139.0	3080.6	2928.8	2670.9	2169.8	1461.8	856.7	474.5	216.6	4.2
42.5°	2727.1	2684.7	2642.2	2472.3	2177.2	1617.8	961.8	529.7	270.7	118.9	1.1
45°	1869.4	1816.3	1757.9	1634.8	1398.1	979.8	572.2	298.3	140.1	66.9	1.1
47.5°	1298.3	1273.9	1171.9	1014.8	778.1	519.1	296.2	146.5	74.3	30.8	1.1
50°	882.1	854.5	735.7	583.9	414.0	248.4	135.9	73.2	32.9	7.4	1.1
52.5°	462.8	428.9	353.5	269.6	167.7	104.0	59.4	31.8	9.6	1.1	1.1
55°	67.9	62.6	51.0	41.4	37.2	28.7	17.0	7.4	1.1	1.1	2.1
57.5°	2.1	2.1	2.1	2.1	3.2	3.2	2.1	1.1	1.1	1.1	2.1
60°	2.1	2.1	2.1	2.1	2.1	1.1	1.1	1.1	1.1	1.1	2.1
62.5°	2.1	2.1	2.1	2.1	2.1	1.1	1.1	1.1	1.1	1.1	2.1
65°	2.1	2.1	2.1	2.1	2.1	1.1	1.1	1.1	1.1	1.1	2.1
67.5°	2.1	2.1	2.1	2.1	1.1	1.1	1.1	1.1	1.1	2.1	3.2
70°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	3.2
72.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	2.1	3.2
75°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	3.2
77.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	2.1	3.2
80°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	2.1
82.5°	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	1.1	3.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	2.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	2.1
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°	148.6	148.6	148.6	148.6	148.6
2.5°	146.5	108.3	83.9	72.2	71.1
5°	132.7	77.5	51.0	39.3	37.2
7.5°	112.5	54.1	29.7	21.2	20.2
10°	92.4	37.2	18.0	14.9	13.8
12.5°	73.2	24.4	12.7	11.7	10.6
15°	56.3	15.9	9.6	8.5	8.5
17.5°	42.5	10.6	7.4	7.4	7.4
20°	31.8	7.4	5.3	6.4	6.4
22.5°	22.3	5.3	4.2	5.3	5.3
25°	15.9	4.2	4.2	5.3	5.3
27.5°	10.6	3.2	3.2	4.2	5.3
30°	6.4	2.1	3.2	4.2	5.3
32.5°	3.2	2.1	3.2	5.3	5.3
35°	2.1	3.2	4.2	5.3	6.4
37.5°	1.1	3.2	4.2	6.4	6.4
40°	1.1	3.2	4.2	6.4	7.4
42.5°	2.1	4.2	5.3	7.4	8.5
45°	2.1	4.2	6.4	8.5	9.6
47.5°	2.1	4.2	7.4	9.6	9.6
50°	3.2	5.3	7.4	9.6	10.6
52.5°	3.2	5.3	7.4	10.6	11.7
55°	3.2	5.3	8.5	10.6	11.7
57.5°	3.2	6.4	8.5	10.6	11.7
60°	3.2	5.3	8.5	10.6	11.7
62.5°	4.2	5.3	7.4	10.6	10.6
65°	4.2	5.3	7.4	10.6	10.6
67.5°	4.2	5.3	7.4	9.6	9.6
70°	4.2	5.3	6.4	8.5	8.5
72.5°	4.2	5.3	6.4	7.4	8.5
75°	3.2	4.2	5.3	6.4	7.4
77.5°	3.2	4.2	4.2	6.4	6.4
80°	3.2	3.2	3.2	4.2	4.2
82.5°	3.2	3.2	2.1	3.2	3.2
85°	3.2	2.1	2.1	2.1	2.1
87.5°	2.1	2.1	1.1	1.1	1.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)