

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: P1345971

Luminaire Tested: P3A13R409035DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1345971
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: P3A13R409035DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R40 optic, 3500K CCT AND, 90CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

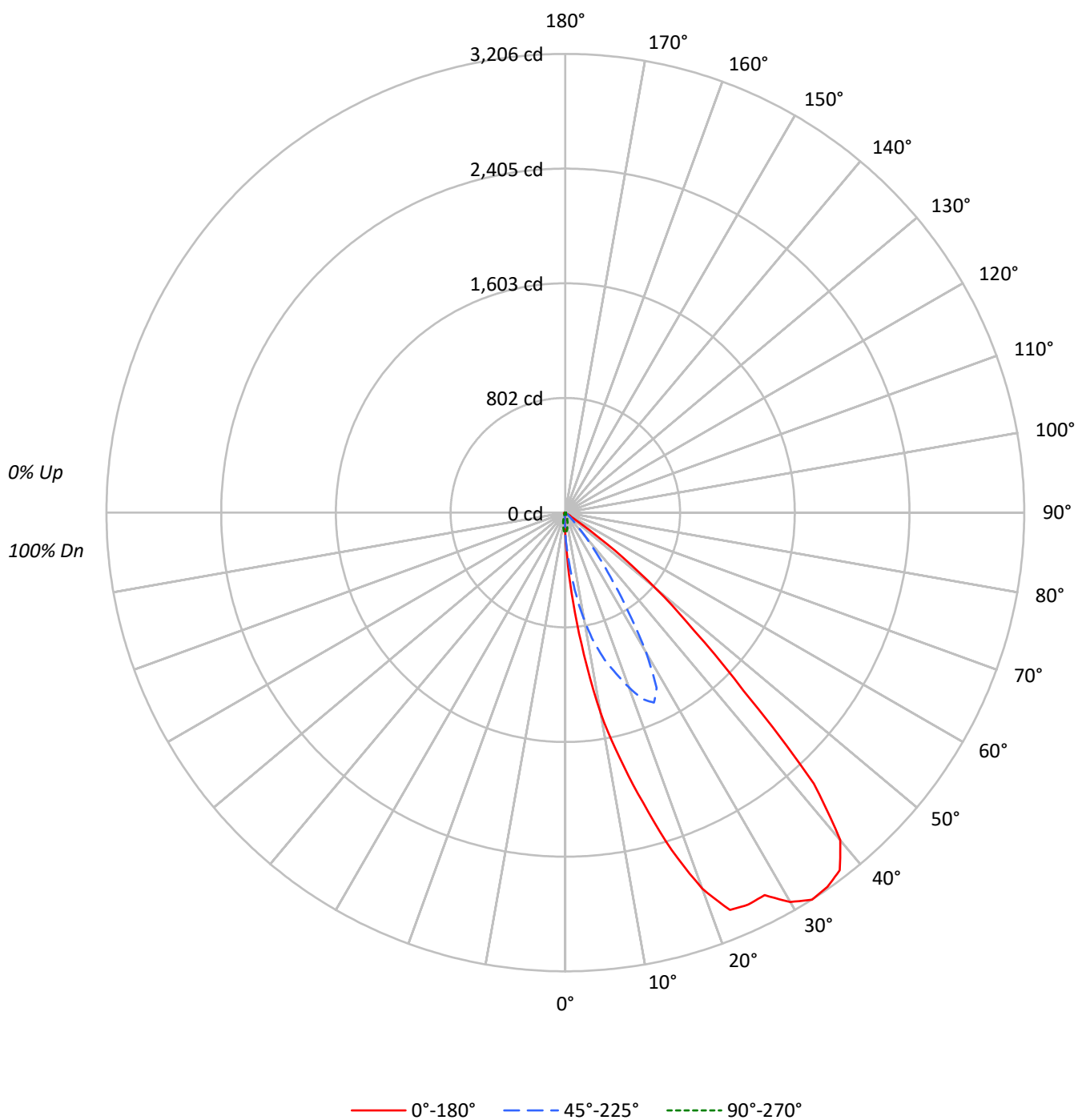
Lumens per Lamp: N/A
Luminaire Lumens: 1183.0 lumens
Efficiency: N/A
Efficacy: 81.0 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.42 / 1.24
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1345971

CATALOG NUMBER: P3A13R409035DE010 E3CA301MW

Luminous Intensity Polar Plot



TEST NUMBER: P1345971

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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°	30699	30699	30699	30699	30699
5°	138432	88245	27515	10566	7704
10°	317474	170538	19372	3785	2895
15°	476439	241954	12032	2043	1816
20°	652363	303313	7001	1167	1400
25°	731292	354408	3629	968	1210
30°	795439	286069	1519	760	1266
35°	854875	146401	535	1071	1606
40°	855202	58395	286	1145	2004
45°	546010	19537	620	1861	2791
50°	283453	2388	1023	2388	3411
55°	24467	382	1147	3058	4205
60°	877	439	1316	3508	4824
65°	1038	519	2075	3632	5189
70°	641	641	2565	3847	5129
75°	847	847	2542	4236	5931
80°	1263	1263	3788	3788	5051
85°	0	2516	7548	5032	5032

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 546010 cd/sqm

TEST NUMBER: P1345971

CATALOG NUMBER: P3A13R409035DE010 E3CA301MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.3	2.3
10°-20°	160.1	13.5
20°-30°	350.7	29.6
30°-40°	399.5	33.8
40°-50°	210.8	17.8
50°-60°	24.9	2.1
60°-70°	4.5	0.4
70°-80°	3.7	0.3
80°-90°	1.7	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°	538.1	45.5
0°-40°	937.6	79.3
0°-60°	1173.2	99.2
0°-90°	1183.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1183.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	140	140	140	140	140	
5°	629	401	125	48	35	85
15°	2099	1066	53	9	8	618
25°	3022	1465	15	4	5	1393
35°	3194	547	2	4	6	1979
45°	1761	63	2	6	9	1420
55°	64	1	3	8	11	199
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	

TEST NUMBER: P1345971

CATALOG NUMBER: P3A13R409035DE010 E3CA301MW

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	67.5°
0°	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0
2.5°	312.0	312.0	311.0	302.0	301.0	300.0	284.0	280.0	261.0	248.0	189.0
5°	628.9	614.9	613.9	597.9	570.9	534.9	511.9	474.9	438.9	400.9	233.0
7.5°	1001.9	1013.8	980.9	963.9	903.9	860.9	794.9	736.9	655.9	579.9	269.0
10°	1425.8	1404.8	1371.8	1338.8	1273.8	1196.8	1098.8	995.9	878.9	765.9	289.0
12.5°	1756.7	1729.7	1709.7	1664.8	1600.8	1501.8	1384.8	1246.8	1091.8	928.9	288.0
15°	2098.7	2071.7	2026.7	1986.7	1891.7	1780.7	1653.8	1471.8	1281.8	1065.8	267.0
17.5°	2474.6	2439.6	2389.6	2328.7	2236.7	2113.7	1952.7	1730.7	1461.8	1177.8	229.0
20°	2795.6	2774.6	2724.6	2652.6	2562.6	2442.6	2256.7	2010.7	1682.7	1299.8	182.0
22.5°	3005.6	2986.6	2952.6	2889.6	2821.6	2693.6	2523.6	2253.7	1867.7	1410.8	138.0
25°	3022.5	3014.5	3005.6	2984.6	2943.6	2852.6	2686.6	2395.6	1982.7	1464.8	102.0
27.5°	3013.5	3010.5	3008.6	2997.6	2970.6	2880.6	2710.6	2416.6	1967.7	1380.8	75.0
30°	3141.5	3132.5	3127.5	3091.5	3020.5	2881.6	2659.6	2303.7	1748.7	1129.8	54.0
32.5°	3206.5	3204.5	3199.5	3164.5	3064.5	2883.6	2573.6	2030.7	1386.8	815.9	37.0
35°	3193.5	3183.5	3165.5	3100.5	2961.6	2734.6	2295.7	1621.8	1000.9	546.9	24.0
37.5°	3149.5	3126.5	3091.5	2974.6	2789.6	2479.6	1861.7	1193.8	680.9	353.9	14.0
40°	2987.6	2956.6	2901.6	2758.6	2515.6	2043.7	1376.8	806.9	446.9	204.0	4.0
42.5°	2568.6	2528.6	2488.6	2328.7	2050.7	1523.8	905.9	498.9	255.0	112.0	1.0
45°	1760.7	1710.7	1655.8	1539.8	1316.8	922.9	538.9	281.0	132.0	63.0	1.0
47.5°	1222.8	1199.8	1103.8	955.9	732.9	488.9	279.0	138.0	70.0	29.0	1.0
50°	830.9	804.9	692.9	549.9	389.9	234.0	128.0	69.0	31.0	7.0	1.0
52.5°	435.9	403.9	333.0	254.0	158.0	98.0	56.0	30.0	9.0	1.0	1.0
55°	64.0	59.0	48.0	39.0	35.0	27.0	16.0	7.0	1.0	1.0	2.0
57.5°	2.0	2.0	2.0	2.0	3.0	3.0	2.0	1.0	1.0	1.0	2.0
60°	2.0	2.0	2.0	2.0	2.0	1.0	1.0	1.0	1.0	1.0	2.0
62.5°	2.0	2.0	2.0	2.0	2.0	1.0	1.0	1.0	1.0	1.0	2.0
65°	2.0	2.0	2.0	2.0	2.0	1.0	1.0	1.0	1.0	1.0	2.0
67.5°	2.0	2.0	2.0	2.0	1.0	1.0	1.0	1.0	1.0	2.0	3.0
70°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	3.0
72.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.0	3.0
75°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	3.0
77.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.0	3.0
80°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.0
82.5°	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0	1.0	3.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	2.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	2.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1345971

CATALOG NUMBER: P3A13R409035DE010 E3CA301MW

CANDELA DISTRIBUTION (continued):

	90°	112.5°	135°	157.5°	180°
0°	140.0	140.0	140.0	140.0	140.0
2.5°	138.0	102.0	79.0	68.0	67.0
5°	125.0	73.0	48.0	37.0	35.0
7.5°	106.0	51.0	28.0	20.0	19.0
10°	87.0	35.0	17.0	14.0	13.0
12.5°	69.0	23.0	12.0	11.0	10.0
15°	53.0	15.0	9.0	8.0	8.0
17.5°	40.0	10.0	7.0	7.0	7.0
20°	30.0	7.0	5.0	6.0	6.0
22.5°	21.0	5.0	4.0	5.0	5.0
25°	15.0	4.0	4.0	5.0	5.0
27.5°	10.0	3.0	3.0	4.0	5.0
30°	6.0	2.0	3.0	4.0	5.0
32.5°	3.0	2.0	3.0	5.0	5.0
35°	2.0	3.0	4.0	5.0	6.0
37.5°	1.0	3.0	4.0	6.0	6.0
40°	1.0	3.0	4.0	6.0	7.0
42.5°	2.0	4.0	5.0	7.0	8.0
45°	2.0	4.0	6.0	8.0	9.0
47.5°	2.0	4.0	7.0	9.0	9.0
50°	3.0	5.0	7.0	9.0	10.0
52.5°	3.0	5.0	7.0	10.0	11.0
55°	3.0	5.0	8.0	10.0	11.0
57.5°	3.0	6.0	8.0	10.0	11.0
60°	3.0	5.0	8.0	10.0	11.0
62.5°	4.0	5.0	7.0	10.0	10.0
65°	4.0	5.0	7.0	10.0	10.0
67.5°	4.0	5.0	7.0	9.0	9.0
70°	4.0	5.0	6.0	8.0	8.0
72.5°	4.0	5.0	6.0	7.0	8.0
75°	3.0	4.0	5.0	6.0	7.0
77.5°	3.0	4.0	4.0	6.0	6.0
80°	3.0	3.0	3.0	4.0	4.0
82.5°	3.0	3.0	2.0	3.0	3.0
85°	3.0	2.0	2.0	2.0	2.0
87.5°	2.0	2.0	1.0	1.0	1.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)