

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: P1344010

Luminaire Tested: P3A13R209735DE010 E3A301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1344010
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: P3A13R209735DE010 E3A301MW
Description: 3in Adjustable LED luminaire with, R20 optic, 3500K CCT AND, 97CRI , E3A301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

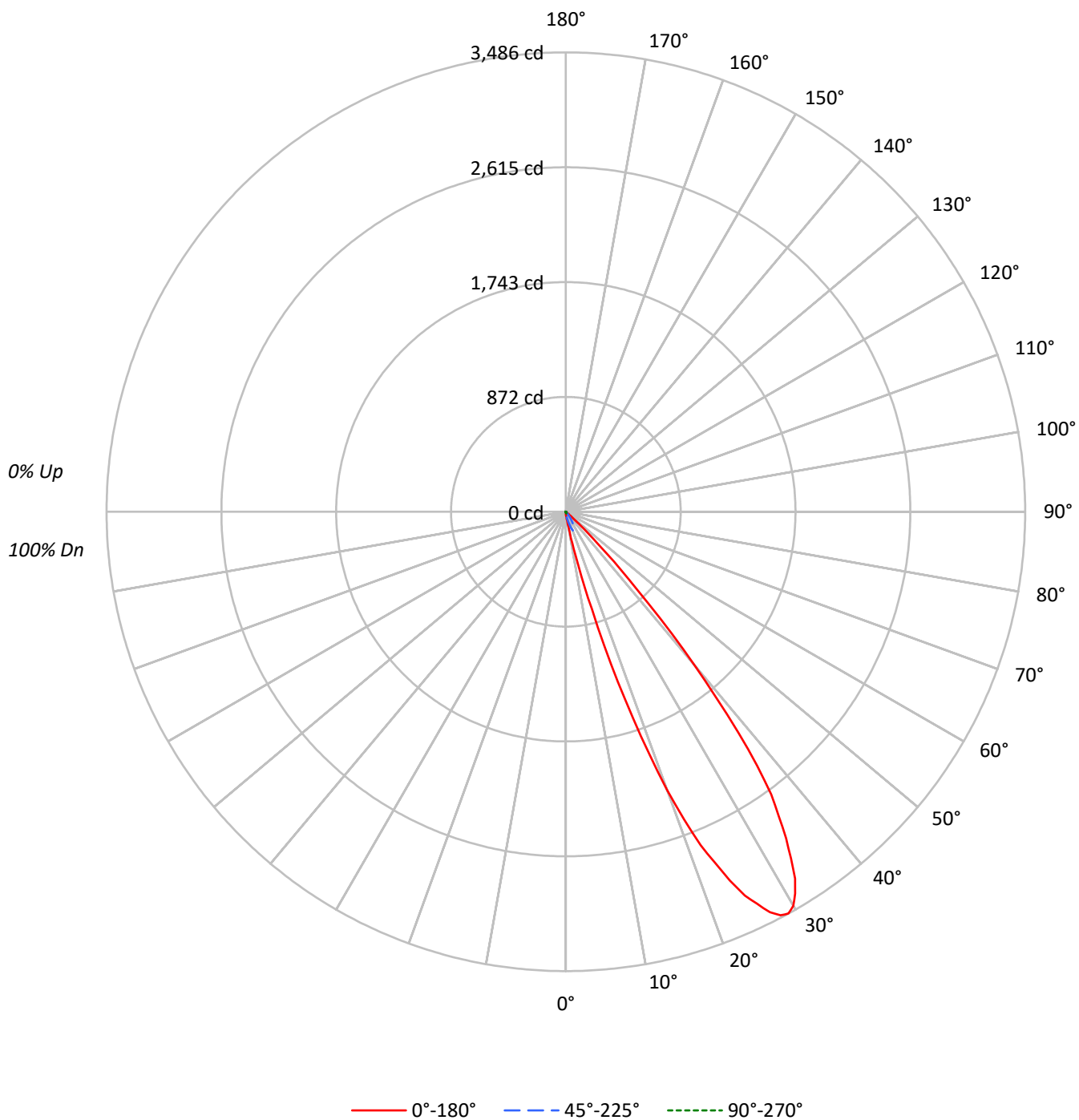
Lumens per Lamp: N/A
Luminaire Lumens: 488.9 lumens
Efficiency: N/A
Efficacy: 33.5 lumens/watt
Spacing Criteria (0/90/45): 2.29 / 0.53 / 1.19
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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: P1344010

CATALOG NUMBER: P3A13R209735DE010 E3A301MW

Luminous Intensity Polar Plot



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CATALOG NUMBER: P3A13R209735DE010 E3A301MW

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	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92		
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	83		
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75		
4	93	84	78	73	91	83	77	72	81	76	71	79	74	71	77	73	70	68		
5	87	77	70	65	85	76	70	65	74	69	64	72	68	64	71	67	63	61		
6	81	71	64	59	80	70	63	58	68	62	58	67	62	58	65	61	57	55		
7	76	65	58	53	74	64	57	53	63	57	52	62	56	52	60	55	52	50		
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45		
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	51	46	43	41		
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	3706	3706	3706	3706	3706
5°	8497	6339	3522	2157	1849
10°	26764	11066	2872	1180	891
15°	173418	20454	2111	409	91
20°	523412	34980	1447	0	0
25°	777335	35325	847	0	0
30°	874160	26840	329	0	0
35°	754250	16035	241	0	0
40°	434299	5467	0	0	0
45°	105933	2202	124	0	124
50°	12725	614	136	136	443
55°	1682	0	344	344	688
60°	175	0	570	570	965
65°	208	208	934	934	1401
70°	256	256	1154	1154	1410
75°	0	339	1525	1101	1525
80°	0	505	1642	1137	1642
85°	0	1006	3271	1006	1006

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°

Vertical Angle: 45°

Luminance: 106616 cd/sqm

TEST NUMBER: P1344010

CATALOG NUMBER: P3A13R209735DE010 E3A301MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.3	0.5
10°-20°	45.3	9.3
20°-30°	197.5	40.4
30°-40°	198.9	40.7
40°-50°	39.9	8.2
50°-60°	2.0	0.4
60°-70°	1.3	0.3
70°-80°	1.2	0.2
80°-90°	0.6	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°	245.1	50.1
0°-40°	444.0	90.8
0°-60°	485.9	99.4
0°-90°	488.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	488.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	17	17	17	17	17	
5°	39	29	16	10	8	6
15°	764	90	9	2	0	299
25°	3213	146	4	0	0	1449
35°	2818	60	1	0	0	1676
45°	342	7	0	0	0	372
55°	4	0	1	1	2	8
65°	0	0	2	2	3	0
75°	0	0	2	1	2	0
85°	0	0	1	0	0	0
90°	0	0	0	0	0	

TEST NUMBER: P1344010

CATALOG NUMBER: P3A13R209735DE010 E3A301MW

CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	16.9	16.9	16.9	16.9	16.9	16.9	16.9	16.9	16.9	16.9	16.9
2.5°	25.3	25.3	24.8	24.8	24.4	24.8	24.0	24.4	24.4	24.0	21.7
5°	38.6	39.5	39.0	39.0	38.6	39.0	38.2	37.3	36.4	36.4	28.8
7.5°	63.4	63.0	62.1	62.6	61.2	60.3	59.4	59.0	56.3	55.0	37.7
10°	120.2	122.9	120.7	120.2	112.2	111.8	106.5	98.9	92.3	88.7	49.7
12.5°	331.0	345.2	323.0	312.3	306.1	282.2	272.0	245.8	220.5	201.4	63.0
15°	763.9	799.0	754.2	757.3	720.0	651.7	591.8	540.4	479.6	418.4	90.1
17.5°	1496.8	1468.4	1444.0	1402.8	1326.9	1226.7	1097.6	966.7	853.6	735.1	125.5
20°	2243.0	2217.8	2162.3	2072.2	1975.5	1826.9	1673.4	1476.9	1286.6	1108.2	149.9
21°	2499.9	2491.5	2400.5	2345.1	2196.0	2054.0	1877.0	1666.8	1452.5	1241.3	153.9
22°	2729.3	2678.7	2629.9	2547.8	2399.6	2245.3	2048.3	1826.9	1594.4	1359.8	154.4
23°	2888.1	2865.0	2818.9	2726.2	2578.9	2397.4	2189.8	1958.2	1713.3	1443.6	153.1
24°	3063.8	3034.5	2967.1	2858.8	2710.2	2531.0	2294.1	2064.3	1798.1	1514.1	149.5
25°	3212.8	3167.1	3087.3	2970.6	2808.2	2623.2	2385.0	2132.6	1857.1	1561.6	146.0
26°	3309.5	3284.7	3182.2	3055.3	2881.4	2690.7	2447.6	2184.9	1895.2	1583.3	140.2
27°	3410.3	3364.6	3263.9	3117.9	2929.3	2734.6	2483.0	2210.2	1908.5	1584.2	133.1
28°	3467.9	3418.2	3304.2	3150.7	2960.4	2759.0	2503.5	2218.2	1905.9	1570.5	124.7
29°	3486.1	3423.6	3312.2	3156.0	2967.9	2760.8	2500.3	2206.7	1882.4	1536.8	114.9
30°	3452.4	3388.5	3282.9	3130.8	2944.0	2738.6	2471.5	2168.5	1840.7	1488.4	106.0
31°	3378.8	3324.6	3222.6	3070.0	2890.8	2686.7	2406.3	2106.0	1769.7	1423.6	95.8
32°	3281.6	3228.4	3128.1	2990.1	2807.8	2601.9	2317.1	2008.4	1686.3	1326.9	85.6
33°	3135.6	3105.0	3015.0	2883.2	2700.9	2480.8	2197.3	1891.7	1567.4	1219.6	76.7
34°	2987.9	2949.3	2886.3	2742.1	2546.0	2326.4	2041.2	1730.6	1422.3	1099.3	68.3
35°	2817.6	2794.5	2695.5	2580.2	2383.2	2158.7	1875.3	1574.0	1253.3	965.4	59.9
36°	2652.5	2617.0	2504.3	2382.3	2191.1	1948.5	1668.5	1385.5	1107.3	839.8	51.0
37°	2413.0	2358.8	2278.5	2149.9	1926.3	1719.5	1464.0	1201.4	927.6	704.1	41.3
38°	2131.2	2106.0	1994.6	1865.1	1680.1	1484.0	1231.1	1008.4	765.3	587.8	31.5
39°	1799.0	1798.5	1692.0	1598.4	1417.4	1240.9	1012.8	818.5	631.7	473.4	24.4
40°	1517.2	1464.9	1399.2	1281.7	1142.8	992.9	793.2	640.6	490.2	381.5	19.1
42.5°	795.4	791.0	752.4	664.1	586.5	498.2	396.2	330.1	258.2	210.3	12.0
45°	341.6	343.8	317.2	303.9	273.7	236.9	200.1	166.8	142.9	115.8	7.1
47.5°	86.5	83.0	82.1	85.2	85.2	82.5	74.1	69.7	64.3	59.0	4.0
50°	37.3	36.4	35.5	35.5	33.3	31.9	29.7	27.1	24.8	22.2	1.8
52.5°	13.8	14.2	14.6	14.2	14.2	13.8	13.8	13.3	12.0	10.6	0.9
55°	4.4	4.4	4.4	4.9	4.9	5.3	5.3	5.3	5.3	4.9	0.0
57.5°	0.9	0.9	1.3	1.3	1.3	1.3	1.3	1.3	1.8	1.8	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°	16.9	16.9	16.9	16.9	16.9	16.9
2.5°	19.5	17.3	14.6	12.4	12.0	11.5
5°	21.7	16.0	12.0	9.8	8.9	8.4
7.5°	23.5	14.6	9.8	7.1	6.2	5.8
10°	24.4	12.9	8.0	5.3	4.0	4.0
12.5°	24.8	11.1	5.8	3.5	2.2	2.2
15°	24.4	9.3	4.4	1.8	0.4	0.4
17.5°	22.2	7.5	2.7	0.4	0.0	0.0
20°	19.1	6.2	1.8	0.0	0.0	0.0
21°	18.2	5.3	1.3	0.0	0.0	0.0
22°	16.9	4.9	0.9	0.0	0.0	0.0
23°	15.5	4.4	0.9	0.0	0.0	0.0
24°	14.2	4.0	0.4	0.0	0.0	0.0
25°	13.3	3.5	0.4	0.0	0.0	0.0
26°	12.4	3.1	0.4	0.0	0.0	0.0
27°	11.1	2.7	0.0	0.0	0.0	0.0
28°	10.2	2.2	0.0	0.0	0.0	0.0
29°	8.9	1.8	0.0	0.0	0.0	0.0
30°	7.5	1.3	0.0	0.0	0.0	0.0
31°	6.2	1.3	0.0	0.0	0.0	0.0
32°	5.3	0.9	0.0	0.0	0.0	0.0
33°	4.4	0.9	0.0	0.0	0.0	0.0
34°	4.0	0.9	0.0	0.0	0.0	0.0
35°	3.5	0.9	0.0	0.0	0.0	0.0
36°	2.7	0.4	0.0	0.0	0.0	0.0
37°	2.2	0.4	0.0	0.0	0.0	0.0
38°	1.8	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	0.9
50°	0.0	0.4	0.4	0.4	0.9	1.3
52.5°	0.0	0.9	0.4	0.4	1.3	1.3
55°	0.4	0.9	0.4	0.9	1.8	1.8
57.5°	0.4	0.9	0.9	1.3	1.8	2.2
60°	0.9	1.3	1.3	1.3	2.2	2.2
62.5°	0.9	1.3	1.8	1.8	2.2	2.7
65°	0.9	1.8	1.8	1.8	2.2	2.7
67.5°	1.3	1.8	1.8	1.8	2.2	2.7
70°	1.3	1.8	1.8	1.8	2.2	2.2
72.5°	1.3	1.8	1.3	1.8	1.8	2.2
75°	1.3	1.8	1.3	1.3	1.8	1.8
77.5°	0.9	1.3	1.3	0.9	1.3	1.3
80°	0.9	1.3	0.9	0.9	1.3	1.3



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.9	1.3	0.9	0.4	0.9	0.9
85°	0.9	1.3	0.9	0.4	0.4	0.4
87.5°	0.9	1.3	0.9	0.4	0.0	0.4
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)