

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: P1345923

Luminaire Tested: P3A13R409027DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1345923
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: P3A13R409027DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R40 optic, 2700K CCT AND, 90CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

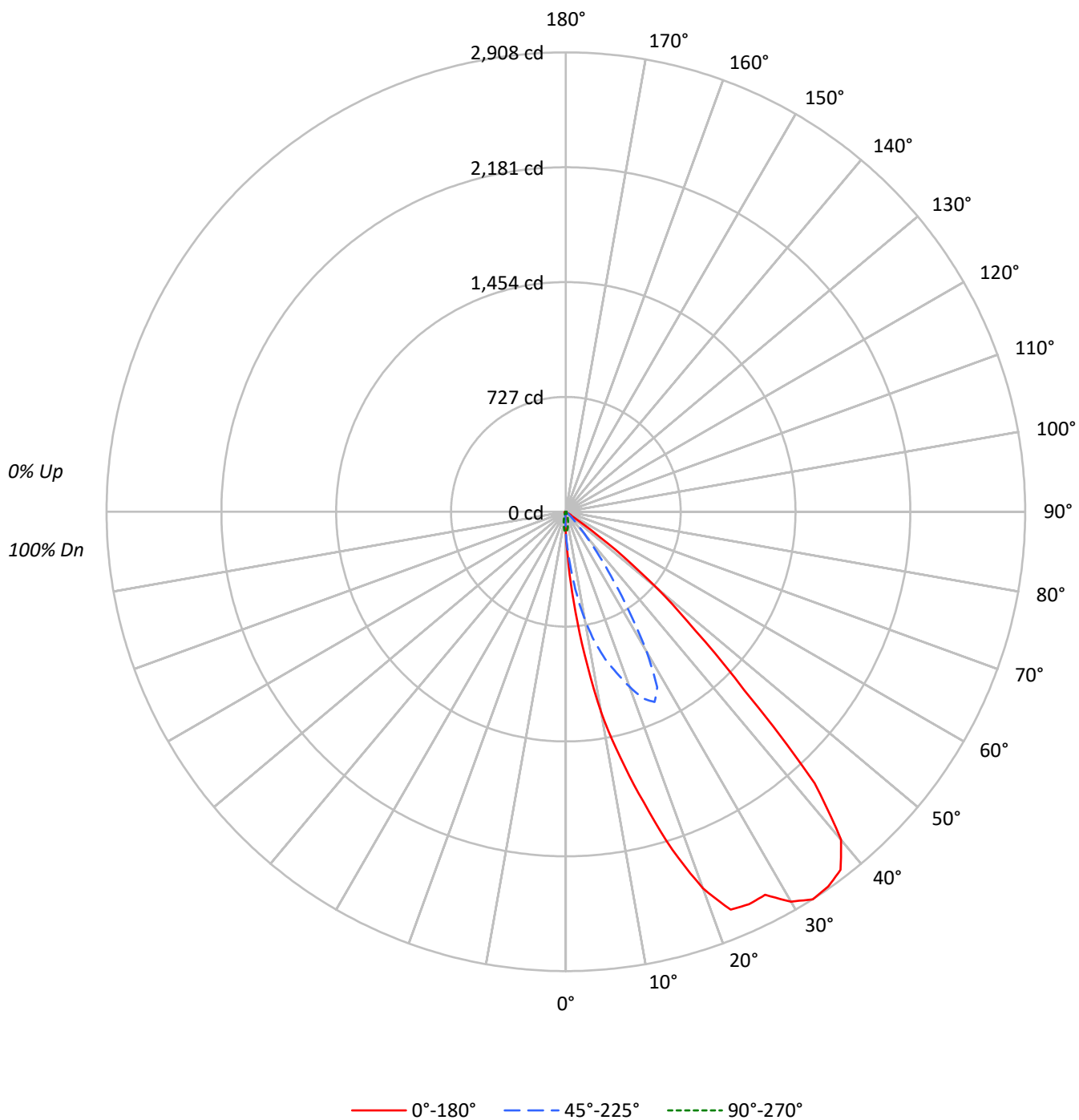
Lumens per Lamp: N/A
Luminaire Lumens: 1072.9 lumens
Efficiency: N/A
Efficacy: 73.5 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.42 / 1.24
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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: P1345923

CATALOG NUMBER: P3A13R409027DE010 E3CA301MW

Luminous Intensity Polar Plot



TEST NUMBER: P1345923

CATALOG NUMBER: P3A13R409027DE010 E3CA301MW

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	27849	27849	27849	27849	27849
5°	125555	80057	24961	9575	6978
10°	287948	154684	17568	3429	2627
15°	432125	219456	10919	1862	1657
20°	591691	275101	6347	1050	1260
25°	663304	321454	3291	871	1089
30°	721478	259483	1367	684	1139
35°	775397	132802	482	964	1446
40°	775682	52956	258	1031	1803
45°	495245	17707	558	1675	2543
50°	257083	2149	921	2149	3104
55°	22174	344	1032	2791	3823
60°	789	395	1184	3201	4386
65°	934	467	1868	3269	4722
70°	577	577	2308	3462	4680
75°	763	763	2288	3813	5338
80°	1137	1137	3410	3410	4546
85°	0	2264	6793	4529	4529

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 495245 cd/sqm

TEST NUMBER: P1345923

CATALOG NUMBER: P3A13R409027DE010 E3CA301MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	24.7	2.3
10°-20°	145.2	13.5
20°-30°	318.1	29.6
30°-40°	362.3	33.8
40°-50°	191.2	17.8
50°-60°	22.5	2.1
60°-70°	4.0	0.4
70°-80°	3.3	0.3
80°-90°	1.5	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°	488.0	45.5
0°-40°	850.4	79.3
0°-60°	1064.1	99.2
0°-90°	1072.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1072.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	127	127	127	127	127	
5°	570	364	113	44	32	77
15°	1904	967	48	8	7	561
25°	2742	1329	14	4	4	1263
35°	2897	496	2	4	5	1795
45°	1597	57	2	5	8	1288
55°	58	1	3	7	10	180
65°	2	1	4	6	9	2
75°	1	1	3	4	6	1
85°	0	1	3	2	2	0
90°	0	0	0	0	0	

TEST NUMBER: P1345923

CATALOG NUMBER: P3A13R409027DE010 E3CA301MW

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	67.5°
0°	127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0
2.5°	282.9	282.9	282.0	273.9	273.0	272.1	257.6	253.9	236.7	224.9	171.4
5°	570.4	557.7	556.8	542.3	517.8	485.2	464.3	430.8	398.1	363.7	211.3
7.5°	908.7	919.6	889.6	874.2	819.8	780.8	721.0	668.4	594.9	526.0	244.0
10°	1293.2	1274.2	1244.2	1214.3	1155.4	1085.5	996.7	903.3	797.1	694.7	262.1
12.5°	1593.4	1568.9	1550.8	1510.0	1451.9	1362.1	1256.0	1130.9	990.3	842.5	261.2
15°	1903.5	1879.1	1838.2	1802.0	1715.8	1615.2	1500.0	1334.9	1162.6	966.7	242.1
17.5°	2244.5	2212.8	2167.4	2112.1	2028.7	1917.1	1771.1	1569.8	1325.9	1068.3	207.7
20°	2535.6	2516.6	2471.2	2406.0	2324.3	2215.5	2046.8	1823.7	1526.3	1178.9	165.1
22.5°	2726.1	2708.9	2678.0	2620.9	2559.2	2443.1	2289.0	2044.1	1694.1	1279.6	125.1
25°	2741.5	2734.2	2726.1	2707.0	2669.9	2587.3	2436.8	2172.9	1798.3	1328.6	92.5
27.5°	2733.3	2730.6	2728.8	2718.8	2694.3	2612.7	2458.6	2191.9	1784.7	1252.4	68.0
30°	2849.4	2841.3	2836.7	2804.1	2739.7	2613.6	2412.3	2089.5	1586.1	1024.8	49.0
32.5°	2908.4	2906.6	2902.0	2870.3	2779.6	2615.4	2334.3	1841.9	1257.8	740.0	33.6
35°	2896.6	2887.5	2871.2	2812.2	2686.2	2480.3	2082.2	1471.0	907.8	496.1	21.8
37.5°	2856.7	2835.8	2804.1	2698.0	2530.2	2249.1	1688.6	1082.8	617.6	321.0	12.7
40°	2709.8	2681.6	2631.8	2502.1	2281.7	1853.7	1248.8	731.9	405.4	185.0	3.6
42.5°	2329.8	2293.5	2257.2	2112.1	1860.0	1382.1	821.6	452.5	231.3	101.6	0.9
45°	1597.0	1551.7	1501.8	1396.6	1194.4	837.1	488.8	254.8	119.7	57.1	0.9
47.5°	1109.1	1088.3	1001.2	867.0	664.7	443.5	253.0	125.1	63.5	26.3	0.9
50°	753.6	730.0	628.5	498.8	353.7	212.2	116.1	62.6	28.1	6.3	0.9
52.5°	395.4	366.4	302.0	230.3	143.3	88.9	50.8	27.2	8.2	0.9	0.9
55°	58.0	53.5	43.5	35.4	31.7	24.5	14.5	6.3	0.9	0.9	1.8
57.5°	1.8	1.8	1.8	1.8	2.7	2.7	1.8	0.9	0.9	0.9	1.8
60°	1.8	1.8	1.8	1.8	1.8	0.9	0.9	0.9	0.9	0.9	1.8
62.5°	1.8	1.8	1.8	1.8	1.8	0.9	0.9	0.9	0.9	0.9	1.8
65°	1.8	1.8	1.8	1.8	1.8	0.9	0.9	0.9	0.9	0.9	1.8
67.5°	1.8	1.8	1.8	1.8	0.9	0.9	0.9	0.9	0.9	1.8	2.7
70°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	2.7
72.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.8	2.7
75°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	2.7
77.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.8	2.7
80°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.8
82.5°	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9	0.9	2.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9	1.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	1.8
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: P1345923

CATALOG NUMBER: P3A13R409027DE010 E3CA301MW

CANDELA DISTRIBUTION (continued):

	90°	112.5°	135°	157.5°	180°
0°	127.0	127.0	127.0	127.0	127.0
2.5°	125.1	92.5	71.6	61.7	60.8
5°	113.4	66.2	43.5	33.6	31.7
7.5°	96.1	46.3	25.4	18.1	17.2
10°	78.9	31.7	15.4	12.7	11.8
12.5°	62.6	20.9	10.9	10.0	9.1
15°	48.1	13.6	8.2	7.3	7.3
17.5°	36.3	9.1	6.3	6.3	6.3
20°	27.2	6.3	4.5	5.4	5.4
22.5°	19.0	4.5	3.6	4.5	4.5
25°	13.6	3.6	3.6	4.5	4.5
27.5°	9.1	2.7	2.7	3.6	4.5
30°	5.4	1.8	2.7	3.6	4.5
32.5°	2.7	1.8	2.7	4.5	4.5
35°	1.8	2.7	3.6	4.5	5.4
37.5°	0.9	2.7	3.6	5.4	5.4
40°	0.9	2.7	3.6	5.4	6.3
42.5°	1.8	3.6	4.5	6.3	7.3
45°	1.8	3.6	5.4	7.3	8.2
47.5°	1.8	3.6	6.3	8.2	8.2
50°	2.7	4.5	6.3	8.2	9.1
52.5°	2.7	4.5	6.3	9.1	10.0
55°	2.7	4.5	7.3	9.1	10.0
57.5°	2.7	5.4	7.3	9.1	10.0
60°	2.7	4.5	7.3	9.1	10.0
62.5°	3.6	4.5	6.3	9.1	9.1
65°	3.6	4.5	6.3	9.1	9.1
67.5°	3.6	4.5	6.3	8.2	8.2
70°	3.6	4.5	5.4	7.3	7.3
72.5°	3.6	4.5	5.4	6.3	7.3
75°	2.7	3.6	4.5	5.4	6.3
77.5°	2.7	3.6	3.6	5.4	5.4
80°	2.7	2.7	2.7	3.6	3.6
82.5°	2.7	2.7	1.8	2.7	2.7
85°	2.7	1.8	1.8	1.8	1.8
87.5°	1.8	1.8	0.9	0.9	0.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)