

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: P1345411

Luminaire Tested: P3A13R359027DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1345411
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-63)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A13R359027DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R35 optic, 2700K CCT AND, 90CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

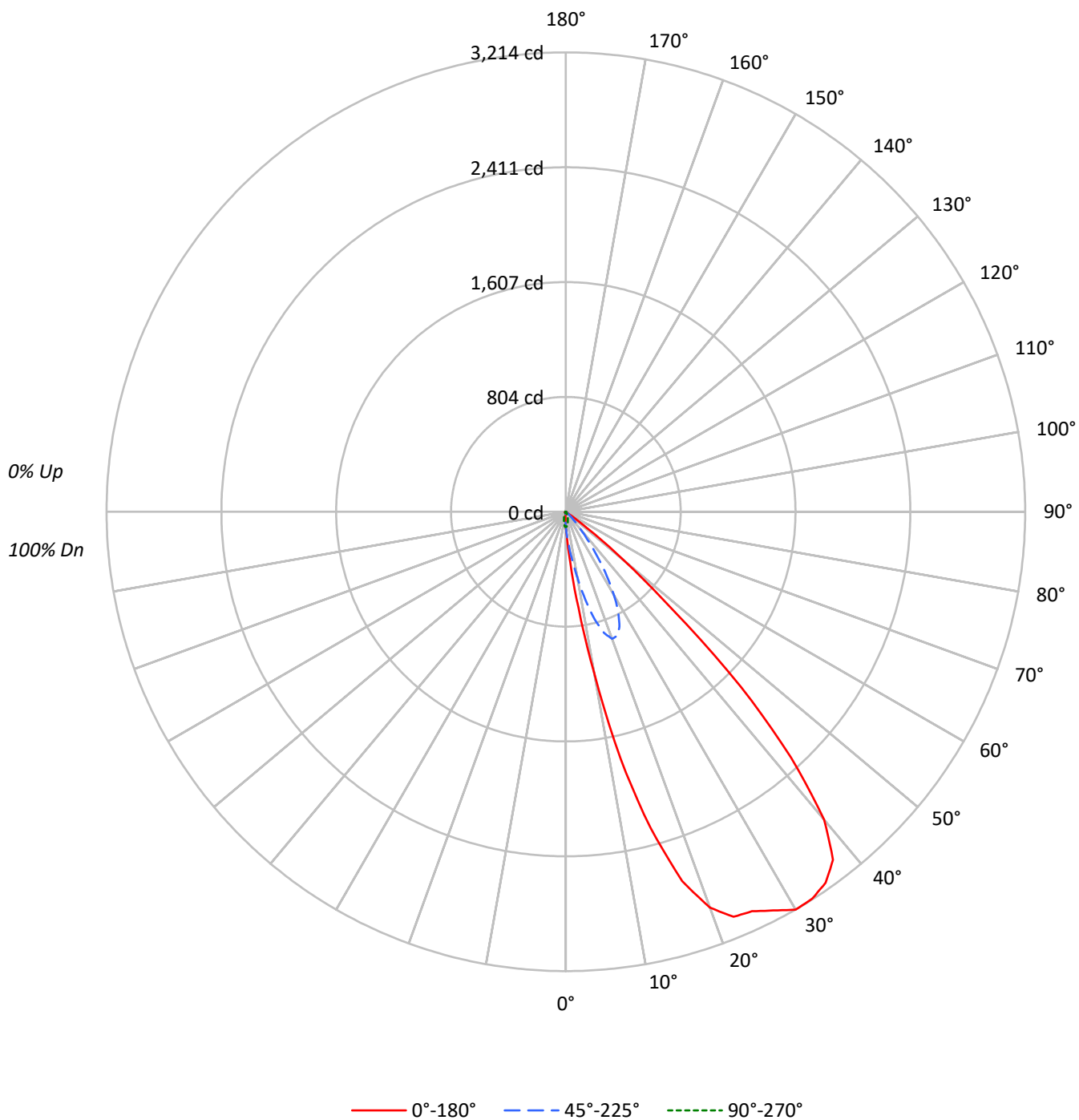
Lumens per Lamp: N/A
Luminaire Lumens: 1010.9 lumens
Efficiency: N/A
Efficacy: 69.2 lumens/watt
Spacing Criteria (0/90/45): 2.45 / 0.5 / 1.25
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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: P1345411

CATALOG NUMBER: P3A13R359027DE010 E3CA301MW

Luminous Intensity Polar Plot



TEST NUMBER: P1345411

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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20			
RC	80				70				50				30				10			0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
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	98	96		96	94	93	91
2	106	100	95	91	103	98	94	90	95	91	88		92	89	86		89	87	84	83
3	99	91	85	81	97	90	84	80	87	83	79		85	81	77		82	79	76	74
4	92	83	77	72	91	82	76	71	80	75	71		78	73	70		76	72	69	67
5	86	76	69	64	85	75	69	64	74	68	63		72	67	63		70	66	62	61
6	81	70	63	58	79	69	62	58	68	62	57		66	61	57		65	60	56	55
7	75	64	57	52	74	64	57	52	62	56	52		61	55	51		60	55	51	49
8	71	59	52	47	69	59	52	47	57	51	47		56	51	47		55	50	46	45
9	66	55	48	43	65	54	47	43	53	47	43		52	46	42		51	46	42	41
10	62	51	44	39	61	50	43	39	49	43	39		48	43	39		47	42	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	23288	23288	23288	23288	23288
5°	79309	51530	21770	9179	6802
10°	255217	104474	17167	3429	2227
15°	520003	177186	12145	1226	817
20°	687646	220683	7841	420	420
25°	746124	214537	4403	218	436
30°	813923	170963	1848	228	456
35°	848103	106408	482	241	482
40°	804822	46487	258	515	773
45°	537265	18576	279	837	1395
50°	180190	3104	614	1228	1842
55°	10055	344	688	1720	2447
60°	789	395	1184	1974	2807
65°	934	467	1401	2335	3321
70°	577	577	1731	2885	3462
75°	763	763	2288	3050	3813
80°	0	1137	3410	3410	3410
85°	0	2264	6793	2264	4529

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 537265 cd/sqm

TEST NUMBER: P1345411

CATALOG NUMBER: P3A13R359027DE010 E3CA301MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	18.4	1.8
10°-20°	145.2	14.4
20°-30°	306.5	30.3
30°-40°	347.7	34.4
40°-50°	171.1	16.9
50°-60°	14.8	1.5
60°-70°	3.0	0.3
70°-80°	2.8	0.3
80°-90°	1.4	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°	470.1	46.5
0°-40°	817.8	80.9
0°-60°	1003.8	99.3
0°-90°	1010.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1010.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	106	106	106	106	106	
5°	360	234	99	42	31	59
15°	2291	780	54	5	4	651
25°	3084	887	18	1	2	1435
35°	3168	398	2	1	2	1953
45°	1732	60	1	3	4	1280
55°	26	1	2	4	6	103
65°	2	1	3	4	6	1
75°	1	1	3	4	4	1
85°	0	1	3	1	2	0
90°	0	0	0	0	0	

TEST NUMBER: P1345411

CATALOG NUMBER: P3A13R359027DE010 E3CA301MW

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	67.5°
0°	106.2	106.2	106.2	106.2	106.2	106.2	106.2	106.2	106.2	106.2	106.2
2.5°	184.2	188.8	187.0	186.0	185.1	181.5	173.3	172.4	164.3	158.8	131.6
5°	360.3	353.0	354.8	344.9	332.2	314.0	302.2	276.8	255.9	234.1	153.4
7.5°	678.8	668.9	649.8	620.8	590.8	551.8	492.8	445.6	391.1	339.4	170.6
10°	1146.2	1140.8	1116.3	1041.9	976.5	872.1	774.1	670.7	569.0	469.2	182.4
12.5°	1770.6	1733.4	1688.9	1590.0	1461.1	1330.4	1137.1	958.4	795.9	628.9	183.3
15°	2290.6	2267.0	2204.4	2075.5	1920.3	1731.6	1502.0	1261.5	1016.4	780.5	174.2
17.5°	2709.0	2672.7	2591.9	2465.8	2287.0	2042.0	1773.3	1480.2	1181.6	888.5	158.8
20°	2946.8	2927.7	2866.0	2739.9	2544.7	2277.0	1971.2	1629.9	1285.1	945.7	138.9
22.5°	3066.6	3053.0	3007.6	2906.8	2724.4	2454.9	2104.6	1708.0	1315.0	939.3	118.0
25°	3083.8	3080.2	3041.2	2964.9	2812.5	2545.6	2162.7	1722.5	1290.5	886.7	98.0
27.5°	3143.7	3131.0	3084.7	3008.5	2855.1	2561.1	2142.7	1672.6	1211.6	794.1	81.7
30°	3214.5	3205.4	3159.1	3080.2	2898.7	2546.5	2071.9	1561.9	1085.4	675.2	60.8
32.5°	3209.1	3205.4	3166.4	3082.9	2867.8	2461.2	1945.8	1395.8	913.9	532.7	38.1
35°	3168.2	3155.5	3106.5	2977.6	2691.8	2241.6	1706.2	1170.7	723.3	397.5	24.5
37.5°	3070.2	3043.0	2960.4	2741.7	2376.8	1903.1	1389.4	903.9	511.9	265.9	15.4
40°	2811.6	2777.1	2611.0	2346.9	1964.8	1499.3	1033.7	621.7	337.6	162.4	6.4
42.5°	2332.4	2262.5	2096.4	1825.1	1466.6	1060.0	678.8	402.9	198.8	98.0	1.8
45°	1732.5	1678.9	1504.7	1258.8	961.1	679.7	411.1	217.8	109.8	59.9	0.9
47.5°	1009.2	976.5	886.7	725.1	530.9	356.7	210.5	117.1	64.4	29.0	0.9
50°	528.2	487.3	419.3	317.6	234.1	164.3	102.6	62.6	31.8	9.1	0.9
52.5°	185.1	182.4	166.1	125.2	101.6	73.5	49.9	27.2	9.1	1.8	0.9
55°	26.3	26.3	24.5	27.2	29.0	26.3	17.2	7.3	1.8	0.9	0.9
57.5°	1.8	1.8	1.8	2.7	3.6	3.6	2.7	0.9	0.9	0.9	1.8
60°	1.8	1.8	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.8
62.5°	1.8	1.8	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.8
65°	1.8	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.8
67.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.8
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	0.9	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°	0.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	2.7
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9	1.8
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9	1.8
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: P1345411

CATALOG NUMBER: P3A13R359027DE010 E3CA301MW

CANDELA DISTRIBUTION (continued):

	90°	112.5°	135°	157.5°	180°
0°	106.2	106.2	106.2	106.2	106.2
2.5°	105.3	84.4	67.2	59.0	56.3
5°	98.9	63.5	41.7	32.7	30.9
7.5°	88.0	45.4	25.4	18.2	17.2
10°	77.1	32.7	15.4	10.9	10.0
12.5°	64.4	22.7	10.0	6.4	5.4
15°	53.5	15.4	5.4	4.5	3.6
17.5°	42.7	10.0	3.6	2.7	3.6
20°	33.6	6.4	1.8	1.8	1.8
22.5°	25.4	3.6	1.8	1.8	1.8
25°	18.2	1.8	0.9	0.9	1.8
27.5°	12.7	0.9	0.9	0.9	1.8
30°	7.3	0.9	0.9	0.9	1.8
32.5°	3.6	0.9	0.9	1.8	1.8
35°	1.8	0.9	0.9	1.8	1.8
37.5°	0.9	0.9	0.9	1.8	2.7
40°	0.9	0.9	1.8	2.7	2.7
42.5°	0.9	0.9	1.8	2.7	3.6
45°	0.9	1.8	2.7	3.6	4.5
47.5°	1.8	1.8	3.6	4.5	5.4
50°	1.8	2.7	3.6	5.4	5.4
52.5°	1.8	2.7	4.5	5.4	6.4
55°	1.8	3.6	4.5	6.4	6.4
57.5°	2.7	3.6	4.5	6.4	6.4
60°	2.7	3.6	4.5	6.4	6.4
62.5°	2.7	3.6	4.5	6.4	6.4
65°	2.7	3.6	4.5	6.4	6.4
67.5°	2.7	3.6	4.5	5.4	6.4
70°	2.7	3.6	4.5	5.4	5.4
72.5°	3.6	3.6	4.5	5.4	5.4
75°	2.7	3.6	3.6	4.5	4.5
77.5°	2.7	2.7	2.7	3.6	3.6
80°	2.7	2.7	2.7	2.7	2.7
82.5°	2.7	1.8	1.8	2.7	2.7
85°	2.7	1.8	0.9	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)