

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: P1345571

Luminaire Tested: P3A13R359827DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1345571
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: P3A13R359827DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R35 optic, 2700K CCT AND, 98CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

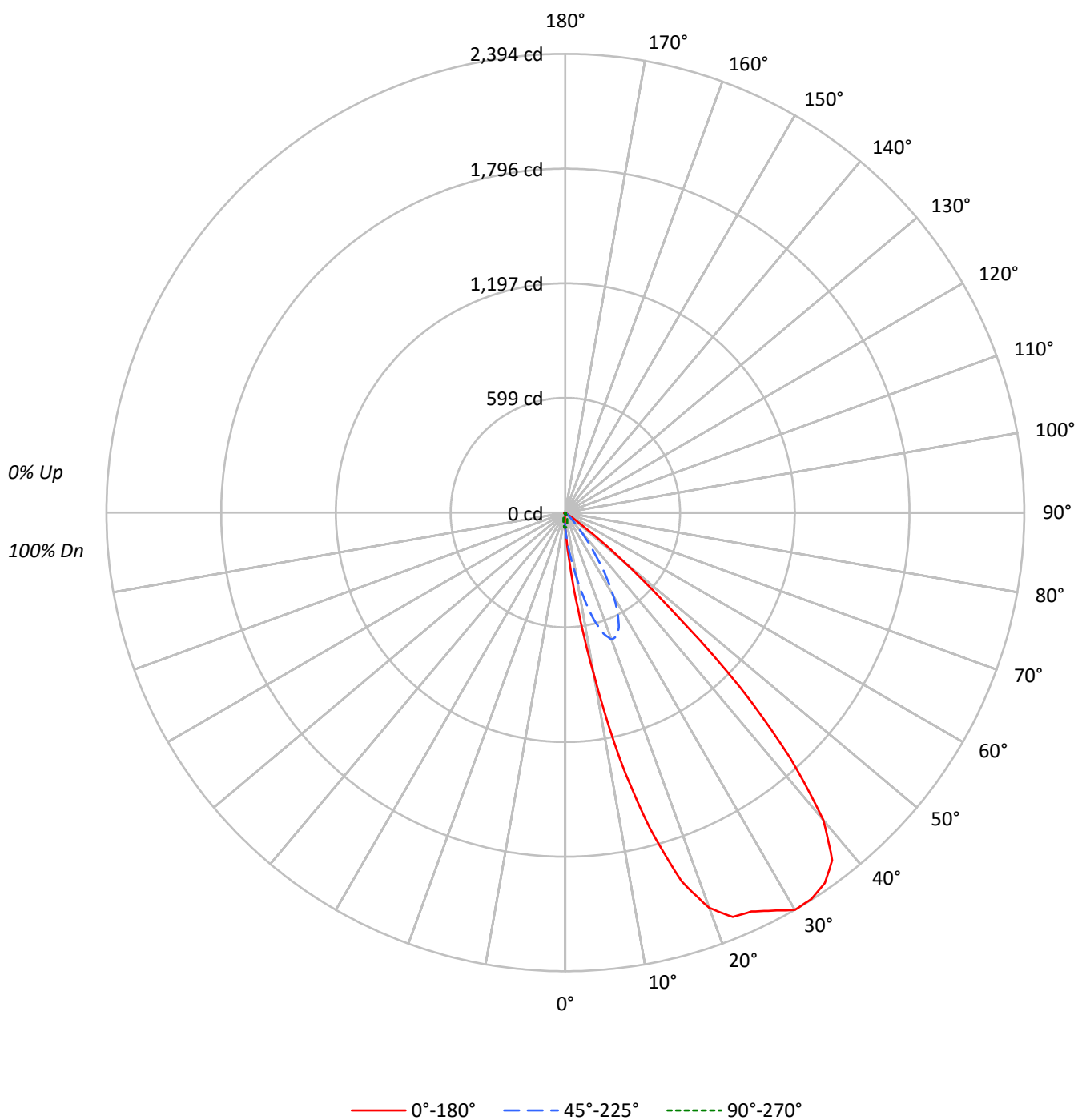
Lumens per Lamp: N/A
Luminaire Lumens: 753.1 lumens
Efficiency: N/A
Efficacy: 51.9 lumens/watt
Spacing Criteria (0/90/45): 2.45 / 0.5 / 1.25
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.5
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: P1345571

CATALOG NUMBER: P3A13R359827DE010 E3CA301MW

Luminous Intensity Polar Plot



TEST NUMBER: P1345571

CATALOG NUMBER: P3A13R359827DE010 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	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	50	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°	17345	17345	17345	17345	17345
5°	59058	38389	16223	6846	5063
10°	190088	77821	12803	2561	1648
15°	387312	131964	9058	931	613
20°	512165	164351	5834	327	327
25°	555710	159783	3266	169	339
30°	606220	127336	1367	177	354
35°	631673	79264	375	187	375
40°	599437	34636	200	401	573
45°	400166	13831	217	620	1054
50°	134205	2320	478	921	1399
55°	7493	268	535	1300	1797
60°	614	307	877	1491	2061
65°	726	363	1038	1764	2439
70°	449	449	1282	2180	2629
75°	593	593	1694	2288	2881
80°	0	884	2526	2526	2526
85°	0	1761	5032	1761	3522

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 400166 cd/sqm

TEST NUMBER: P1345571

CATALOG NUMBER: P3A13R359827DE010 E3CA301MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13.7	1.8
10°-20°	108.1	14.4
20°-30°	228.3	30.3
30°-40°	259.0	34.4
40°-50°	127.5	16.9
50°-60°	11.1	1.5
60°-70°	2.3	0.3
70°-80°	2.1	0.3
80°-90°	1.0	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°	350.1	46.5
0°-40°	609.1	80.9
0°-60°	747.7	99.3
0°-90°	753.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	753.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	79	79	79	79	79	
5°	268	174	74	31	23	44
15°	1706	581	40	4	3	485
25°	2297	660	14	1	1	1069
35°	2360	296	1	1	1	1454
45°	1290	45	1	2	3	953
55°	20	1	1	3	5	77
65°	1	1	2	3	5	1
75°	1	1	2	3	3	0
85°	0	1	2	1	1	0
90°	0	0	0	0	0	

TEST NUMBER: P1345571

CATALOG NUMBER: P3A13R359827DE010 E3CA301MW

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	67.5°
0°	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1
2.5°	137.2	140.6	139.2	138.6	137.9	135.2	129.1	128.4	122.3	118.3	98.0
5°	268.3	262.9	264.3	256.9	247.4	233.9	225.1	206.2	190.6	174.4	114.2
7.5°	505.6	498.2	484.0	462.3	440.0	411.0	367.0	331.9	291.3	252.8	127.1
10°	853.7	849.7	831.4	776.0	727.3	649.6	576.6	499.5	423.8	349.5	135.9
12.5°	1318.8	1291.0	1257.9	1184.2	1088.3	990.9	847.0	713.8	592.8	468.4	136.5
15°	1706.1	1688.5	1641.9	1545.9	1430.3	1289.7	1118.7	939.6	757.1	581.3	129.8
17.5°	2017.7	1990.6	1930.5	1836.5	1703.4	1520.9	1320.8	1102.5	880.1	661.7	118.3
20°	2194.8	2180.6	2134.6	2040.7	1895.3	1695.9	1468.1	1214.0	957.1	704.3	103.4
22.5°	2284.0	2273.9	2240.1	2165.0	2029.2	1828.4	1567.5	1272.1	979.4	699.6	87.9
25°	2296.8	2294.1	2265.1	2208.3	2094.7	1896.0	1610.8	1282.9	961.2	660.4	73.0
27.5°	2341.5	2332.0	2297.5	2240.7	2126.5	1907.5	1595.9	1245.8	902.4	591.4	60.8
30°	2394.2	2387.4	2352.9	2294.1	2159.0	1896.7	1543.2	1163.3	808.4	502.9	45.3
32.5°	2390.1	2387.4	2358.4	2296.2	2136.0	1833.1	1449.2	1039.6	680.7	396.8	28.4
35°	2359.7	2350.2	2313.7	2217.8	2004.8	1669.6	1270.8	872.0	538.7	296.1	18.3
37.5°	2286.7	2266.4	2204.9	2042.0	1770.3	1417.4	1034.9	673.2	381.2	198.1	11.5
40°	2094.1	2068.4	1944.7	1748.0	1463.4	1116.7	769.9	463.0	251.4	121.0	4.7
42.5°	1737.2	1685.1	1561.4	1359.3	1092.3	789.5	505.6	300.1	148.0	73.0	1.4
45°	1290.4	1250.5	1120.7	937.5	715.8	506.3	306.2	162.2	81.8	44.6	0.7
47.5°	751.6	727.3	660.4	540.1	395.4	265.6	156.8	87.2	48.0	21.6	0.7
50°	393.4	363.0	312.3	236.6	174.4	122.3	76.4	46.6	23.7	6.8	0.7
52.5°	137.9	135.9	123.7	93.3	75.7	54.8	37.2	20.3	6.8	1.4	0.7
55°	19.6	19.6	18.3	20.3	21.6	19.6	12.8	5.4	1.4	0.7	0.7
57.5°	1.4	1.4	1.4	2.0	2.7	2.7	2.0	0.7	0.7	0.7	1.4
60°	1.4	1.4	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.4
62.5°	1.4	1.4	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.4
65°	1.4	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.4
67.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.4
70°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	2.0
72.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	2.0
75°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	2.0
77.5°	0.0	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	2.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7	1.4
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7	1.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	1.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	1.4
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: P1345571

CATALOG NUMBER: P3A13R359827DE010 E3CA301MW

CANDELA DISTRIBUTION (continued):

	90°	112.5°	135°	157.5°	180°
0°	79.1	79.1	79.1	79.1	79.1
2.5°	78.4	62.9	50.0	43.9	41.9
5°	73.7	47.3	31.1	24.3	23.0
7.5°	65.6	33.8	18.9	13.5	12.8
10°	57.5	24.3	11.5	8.1	7.4
12.5°	48.0	16.9	7.4	4.7	4.1
15°	39.9	11.5	4.1	3.4	2.7
17.5°	31.8	7.4	2.7	2.0	2.7
20°	25.0	4.7	1.4	1.4	1.4
22.5°	18.9	2.7	1.4	1.4	1.4
25°	13.5	1.4	0.7	0.7	1.4
27.5°	9.5	0.7	0.7	0.7	1.4
30°	5.4	0.7	0.7	0.7	1.4
32.5°	2.7	0.7	0.7	1.4	1.4
35°	1.4	0.7	0.7	1.4	1.4
37.5°	0.7	0.7	0.7	1.4	2.0
40°	0.7	0.7	1.4	2.0	2.0
42.5°	0.7	0.7	1.4	2.0	2.7
45°	0.7	1.4	2.0	2.7	3.4
47.5°	1.4	1.4	2.7	3.4	4.1
50°	1.4	2.0	2.7	4.1	4.1
52.5°	1.4	2.0	3.4	4.1	4.7
55°	1.4	2.7	3.4	4.7	4.7
57.5°	2.0	2.7	3.4	4.7	4.7
60°	2.0	2.7	3.4	4.7	4.7
62.5°	2.0	2.7	3.4	4.7	4.7
65°	2.0	2.7	3.4	4.7	4.7
67.5°	2.0	2.7	3.4	4.1	4.7
70°	2.0	2.7	3.4	4.1	4.1
72.5°	2.7	2.7	3.4	4.1	4.1
75°	2.0	2.7	2.7	3.4	3.4
77.5°	2.0	2.0	2.0	2.7	2.7
80°	2.0	2.0	2.0	2.0	2.0
82.5°	2.0	1.4	1.4	2.0	2.0
85°	2.0	1.4	0.7	1.4	1.4
87.5°	1.4	1.4	0.7	0.7	0.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)