

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: P1343567

Luminaire Tested: P3A13R159830DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1343567
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-59)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A13R159830DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R15 optic, 3000K CCT AND, 98CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

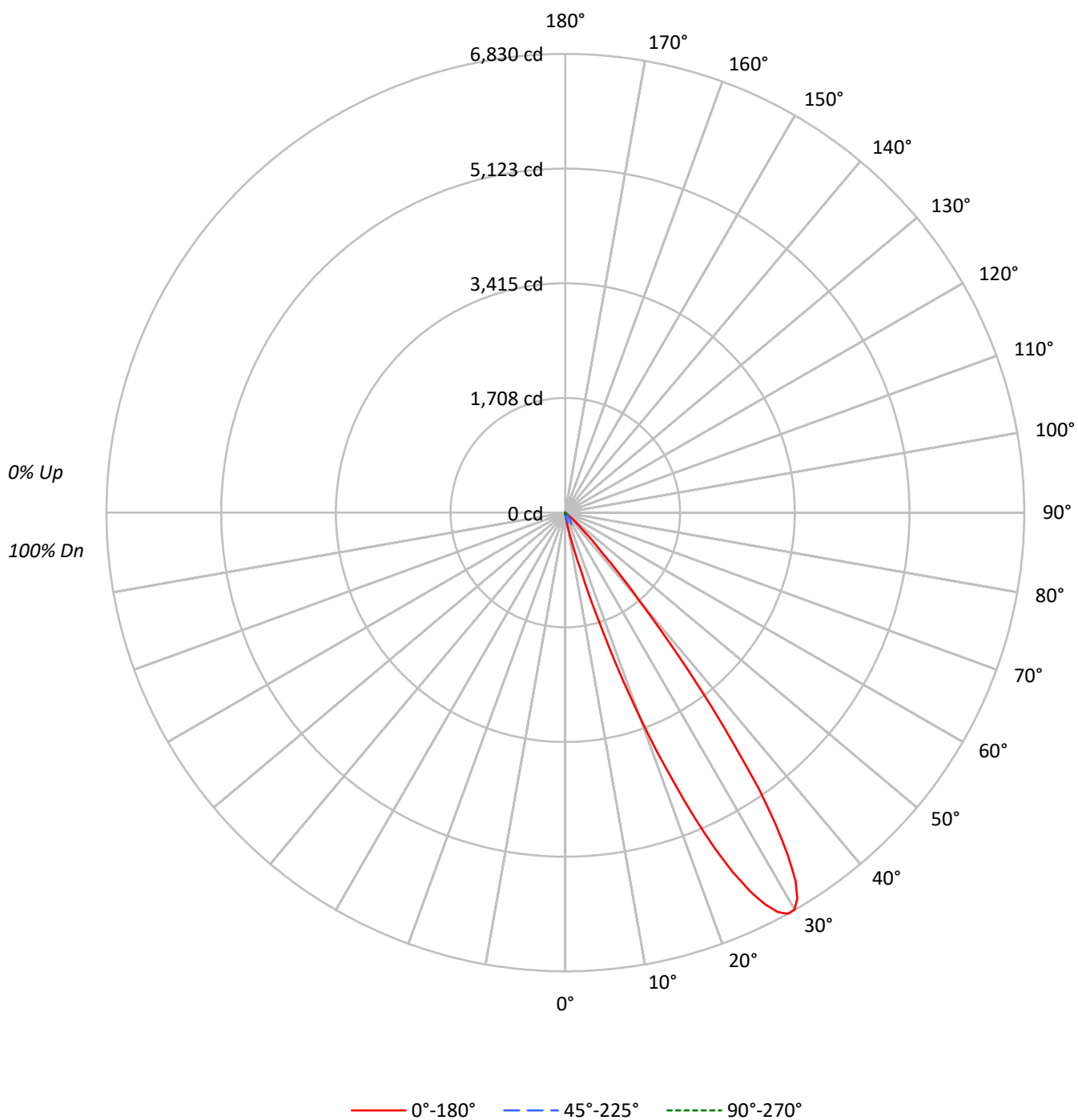
Lumens per Lamp: N/A
Luminaire Lumens: 746.0 lumens
Efficiency: N/A
Efficacy: 51.4 lumens/watt
Spacing Criteria (0/90/45): 2.35 / 0.49 / 1.26
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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

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Luminous Intensity Polar Plot



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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	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	75	71	79	74	70	77	73	70	68		
5	87	77	70	65	85	76	70	65	74	69	64	72	67	64	71	66	63	61		
6	81	71	64	59	80	70	63	58	68	62	58	67	61	57	65	61	57	55		
7	76	65	58	53	74	64	57	53	63	57	52	61	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	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°	5416	5416	5416	5416	5416
5°	11666	8629	5107	2707	2245
10°	51702	16321	4030	1136	802
15°	195552	37730	2792	499	341
20°	752029	53181	1703	163	163
25°	1430066	49866	871	0	0
30°	1727557	40234	380	0	0
35°	1347376	27385	187	0	0
40°	491693	13511	200	0	200
45°	126246	4062	217	0	465
50°	21287	512	239	239	751
55°	2791	0	573	841	1376
60°	307	307	965	1272	1930
65°	363	363	1505	1868	2283
70°	449	449	1859	1859	2308
75°	593	593	2457	1864	2457
80°	0	884	2778	1894	2778
85°	0	1761	5535	1761	1761

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 126246 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.4	0.5
10°-20°	57.2	7.7
20°-30°	317.1	42.5
30°-40°	306.3	41.1
40°-50°	53.3	7.1
50°-60°	3.8	0.5
60°-70°	2.3	0.3
70°-80°	1.8	0.2
80°-90°	0.9	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°	377.6	50.6
0°-40°	683.9	91.7
0°-60°	741.0	99.3
0°-90°	746.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	746.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	25	25	25	25	25	
5°	53	39	23	12	10	10
15°	861	166	12	2	2	384
25°	5911	206	4	0	0	2643
35°	5033	102	1	0	0	2895
45°	407	13	1	0	2	437
55°	7	0	2	2	4	14
65°	1	1	3	4	4	1
75°	1	1	3	2	3	0
85°	0	1	2	1	1	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7
2.5°	36.3	34.8	35.6	35.6	35.6	35.6	35.6	34.1	34.1	34.8	31.2
5°	53.0	53.0	52.2	53.0	53.0	52.2	50.8	50.1	50.1	48.6	39.2
7.5°	105.9	104.5	104.5	103.0	95.8	93.6	92.2	88.5	82.0	80.5	50.8
10°	232.2	232.9	227.9	221.3	220.6	209.7	206.1	199.6	187.2	174.9	73.3
12.5°	421.6	412.2	399.8	400.6	379.5	372.3	355.6	337.4	318.6	299.0	120.5
15°	861.4	834.5	850.5	811.3	767.0	717.0	666.2	602.3	547.9	489.8	166.2
17.5°	1814.2	1840.3	1796.0	1628.4	1525.4	1404.2	1233.6	1068.9	928.1	814.9	203.2
20°	3222.7	3261.2	3110.9	2965.1	2714.7	2441.9	2157.4	1835.2	1526.8	1259.8	227.9
21°	3811.2	3788.0	3726.3	3492.7	3203.8	2887.4	2539.1	2183.5	1809.8	1463.0	230.0
22°	4380.1	4391.0	4247.3	4002.8	3702.4	3351.9	2926.6	2487.6	2084.9	1628.4	226.4
23°	4946.9	4981.7	4791.6	4562.3	4184.2	3788.7	3296.7	2822.9	2325.0	1817.8	219.2
24°	5471.6	5447.6	5319.2	5030.3	4626.1	4163.2	3652.3	3077.6	2522.4	1979.6	213.3
25°	5910.6	5907.7	5705.9	5425.1	4962.9	4449.8	3886.7	3285.8	2691.5	2089.2	206.1
26°	6269.8	6211.0	6052.1	5709.6	5253.1	4711.8	4079.0	3437.5	2786.6	2144.4	198.8
27°	6547.0	6504.9	6291.6	5935.3	5458.5	4859.8	4202.4	3513.0	2830.1	2162.5	189.4
28°	6733.5	6687.8	6460.6	6093.5	5571.7	4952.7	4267.7	3544.9	2830.1	2145.1	180.7
29°	6830.0	6767.6	6541.2	6147.9	5597.8	4963.6	4251.7	3513.7	2785.8	2091.4	170.5
30°	6822.8	6745.1	6507.8	6098.5	5520.2	4874.3	4162.4	3401.2	2685.7	2011.6	158.9
31°	6705.2	6618.1	6353.2	5931.6	5359.8	4706.0	3994.1	3250.3	2548.6	1907.8	147.3
32°	6466.4	6356.1	6097.8	5677.6	5113.1	4454.2	3749.5	3017.3	2343.2	1756.1	135.0
33°	6077.5	5966.5	5689.3	5295.2	4779.3	4134.9	3425.2	2767.0	2109.5	1575.4	124.8
34°	5590.6	5489.0	5250.2	4853.3	4358.4	3730.7	3052.2	2420.8	1867.2	1396.2	113.9
35°	5033.3	4871.4	4655.2	4341.0	3858.4	3227.1	2649.4	2098.6	1617.5	1208.2	102.3
36°	4279.3	4308.3	4079.0	3694.4	3294.5	2799.6	2245.2	1749.6	1352.6	1029.7	92.2
37°	3610.9	3565.2	3419.4	3121.8	2773.5	2282.2	1881.7	1483.3	1137.9	870.8	81.3
38°	2912.8	2923.0	2780.0	2551.5	2206.0	1876.6	1514.5	1218.4	952.1	740.9	71.1
39°	2280.1	2272.1	2233.6	2021.7	1709.0	1492.7	1227.1	1010.1	793.2	624.8	60.2
40°	1717.7	1730.7	1640.7	1513.0	1330.9	1153.1	977.5	805.5	656.0	526.8	47.2
42.5°	835.2	855.6	796.1	763.4	682.9	613.2	517.4	422.3	359.2	310.6	21.0
45°	407.1	395.5	390.4	374.4	355.6	317.8	281.6	241.6	211.2	182.1	13.1
47.5°	208.3	202.5	202.5	195.9	189.4	177.1	158.9	145.9	131.3	113.2	5.1
50°	62.4	61.7	61.0	61.7	59.5	61.7	63.1	63.9	58.1	57.3	1.5
52.5°	24.7	25.4	24.7	26.8	26.8	26.1	26.8	26.1	25.4	22.5	0.0
55°	7.3	7.3	7.3	7.3	7.3	7.3	8.0	8.7	8.0	8.7	0.0
57.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	0.0
60°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.0	0.7
62.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
65°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
67.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
70°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
72.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
75°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7



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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	0.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7
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°	24.7	24.7	24.7	24.7	24.7	24.7
2.5°	29.0	25.4	21.0	17.4	16.0	15.2
5°	31.2	23.2	16.0	12.3	10.9	10.2
7.5°	33.4	21.0	12.3	8.7	6.5	5.8
10°	34.8	18.1	9.4	5.1	3.6	3.6
12.5°	34.8	14.5	6.5	2.9	2.2	2.2
15°	34.1	12.3	4.4	2.2	1.5	1.5
17.5°	33.4	9.4	2.9	1.5	0.7	1.5
20°	31.2	7.3	1.5	0.7	0.7	0.7
21°	30.5	6.5	1.5	0.7	0.7	0.7
22°	29.0	5.8	0.7	0.0	0.7	0.7
23°	27.6	4.4	0.7	0.0	0.0	0.0
24°	25.4	3.6	0.7	0.0	0.0	0.0
25°	23.9	3.6	0.7	0.0	0.0	0.0
26°	22.5	2.2	0.0	0.0	0.0	0.0
27°	20.3	1.5	0.0	0.0	0.0	0.0
28°	18.9	1.5	0.0	0.0	0.0	0.0
29°	16.7	1.5	0.0	0.0	0.0	0.0
30°	14.5	1.5	0.0	0.0	0.0	0.0
31°	11.6	0.7	0.0	0.0	0.0	0.0
32°	9.4	0.7	0.0	0.0	0.0	0.0
33°	6.5	0.7	0.0	0.0	0.0	0.0
34°	4.4	0.7	0.0	0.0	0.0	0.0
35°	3.6	0.7	0.0	0.0	0.0	0.0
36°	2.2	0.7	0.0	0.0	0.0	0.7
37°	2.2	0.7	0.0	0.0	0.0	0.7
38°	1.5	0.7	0.0	0.0	0.0	0.7
39°	0.7	0.7	0.0	0.0	0.0	0.7
40°	0.7	0.7	0.0	0.0	0.0	0.7
42.5°	0.0	0.7	0.0	0.0	0.7	1.5
45°	0.0	0.7	0.0	0.0	0.7	1.5
47.5°	0.0	0.7	0.0	0.0	1.5	1.5
50°	0.0	0.7	0.7	0.7	1.5	2.2
52.5°	0.0	1.5	0.7	1.5	2.2	2.9
55°	0.7	1.5	1.5	2.2	2.9	3.6
57.5°	0.7	2.2	2.2	2.9	3.6	3.6
60°	1.5	2.2	2.9	2.9	4.4	4.4
62.5°	1.5	2.9	2.9	2.9	4.4	4.4
65°	1.5	2.9	2.9	3.6	4.4	4.4
67.5°	1.5	2.9	2.9	2.9	3.6	4.4
70°	1.5	2.9	2.2	2.9	3.6	3.6
72.5°	1.5	2.9	2.2	2.2	2.9	3.6
75°	1.5	2.9	2.2	2.2	2.9	2.9
77.5°	1.5	2.2	2.2	1.5	2.2	2.2
80°	1.5	2.2	1.5	1.5	2.2	2.2



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	1.5	2.2	1.5	0.7	1.5	1.5
85°	1.5	2.2	1.5	0.7	0.7	0.7
87.5°	1.5	2.2	0.7	0.0	0.0	0.7
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)