

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: P1346115

Luminaire Tested: P3A13R409835DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1346115
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: P3A13R409835DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R40 optic, 3500K CCT AND, 98CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

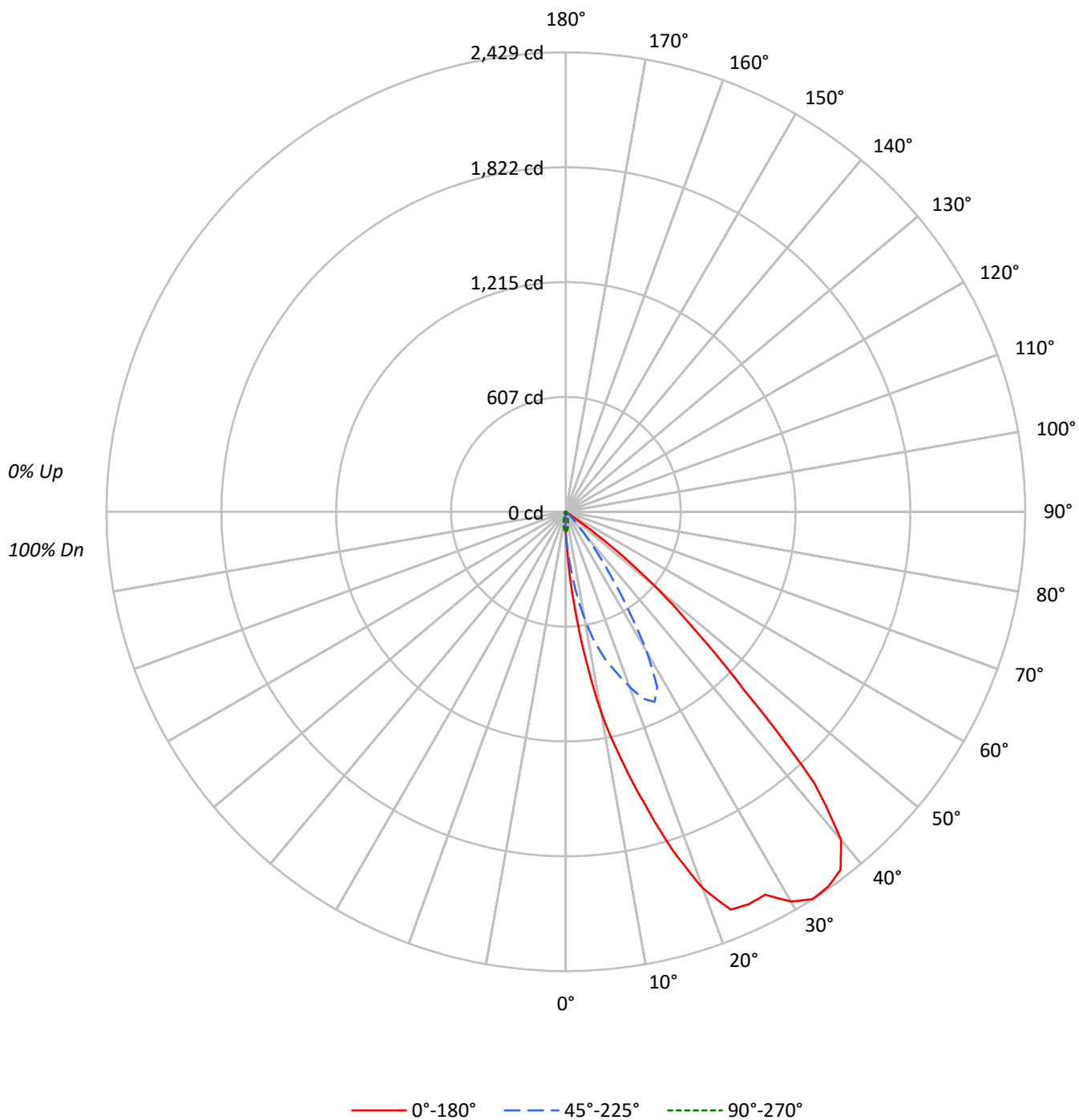
Lumens per Lamp: N/A
Luminaire Lumens: 896.0 lumens
Efficiency: N/A
Efficacy: 61.8 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.42 / 1.24
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.5
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			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	97	96		96	94	93	91
2	105	100	95	91	103	98	94	90	95	91	88		92	89	86		89	86	84	82
3	99	91	85	80	97	90	84	80	87	82	78		84	80	77		82	79	76	74
4	92	83	77	71	90	82	76	71	80	74	70		78	73	69		76	72	68	67
5	86	76	69	64	84	75	68	64	73	67	63		71	66	62		70	65	62	60
6	80	70	62	57	79	69	62	57	67	61	57		66	60	56		64	60	56	54
7	75	64	57	52	74	63	56	51	62	56	51		61	55	51		59	54	51	49
8	70	59	52	47	69	58	51	47	57	51	46		56	50	46		55	50	46	44
9	66	54	47	42	65	54	47	42	53	46	42		52	46	42		51	46	42	40
10	62	50	43	39	61	50	43	39	49	43	38		48	42	38		47	42	38	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	23244	23244	23244	23244	23244
5°	104842	66850	20845	7990	5833
10°	240454	129167	14674	2872	2182
15°	360842	183270	9103	1544	1385
20°	494103	229737	5297	887	1050
25°	553895	268419	2758	726	919
30°	602472	216666	1139	582	962
35°	647494	110878	402	803	1205
40°	647728	44226	229	859	1517
45°	413562	14792	465	1395	2109
50°	214680	1808	785	1808	2593
55°	18542	306	879	2332	3173
60°	658	351	1009	2675	3640
65°	778	415	1557	2750	3943
70°	513	513	1923	2885	3911
75°	678	678	1949	3219	4490
80°	1010	1010	2904	2904	3788
85°	0	2013	5787	3774	3774

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 413562 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	20.6	2.3
10°-20°	121.3	13.5
20°-30°	265.6	29.6
30°-40°	302.6	33.8
40°-50°	159.6	17.8
50°-60°	18.8	2.1
60°-70°	3.4	0.4
70°-80°	2.8	0.3
80°-90°	1.3	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°	407.5	45.5
0°-40°	710.1	79.2
0°-60°	888.6	99.2
0°-90°	896.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	896.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	106	106	106	106	106	
5°	476	304	95	36	26	64
15°	1590	807	40	7	6	468
25°	2289	1109	11	3	4	1055
35°	2419	414	2	3	4	1499
45°	1334	48	2	4	7	1075
55°	48	1	2	6	8	150
65°	2	1	3	5	8	1
75°	1	1	2	4	5	1
85°	0	1	2	2	2	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	67.5°
0°	106.0	106.0	106.0	106.0	106.0	106.0	106.0	106.0	106.0	106.0	106.0
2.5°	236.3	236.3	235.5	228.7	227.9	227.2	215.1	212.0	197.7	187.8	143.1
5°	476.3	465.7	465.0	452.9	432.4	405.1	387.7	359.7	332.4	303.7	176.4
7.5°	758.8	767.9	742.9	730.0	684.6	652.0	602.0	558.1	496.8	439.2	203.7
10°	1079.9	1064.0	1039.0	1014.0	964.8	906.5	832.3	754.3	665.7	580.1	218.9
12.5°	1330.5	1310.1	1295.0	1260.9	1212.4	1137.4	1048.8	944.3	827.0	703.5	218.1
15°	1589.5	1569.1	1535.0	1504.7	1432.8	1348.7	1252.5	1114.7	970.8	807.3	202.2
17.5°	1874.3	1847.8	1809.9	1763.7	1694.0	1600.9	1479.0	1310.9	1107.1	892.1	173.4
20°	2117.4	2101.5	2063.6	2009.1	1940.9	1850.0	1709.2	1522.9	1274.5	984.5	137.8
22.5°	2276.4	2262.0	2236.3	2188.5	2137.1	2040.1	1911.4	1706.9	1414.6	1068.5	104.5
25°	2289.3	2283.2	2276.4	2260.5	2229.4	2160.5	2034.8	1814.5	1501.7	1109.4	77.2
27.5°	2282.5	2280.2	2278.7	2270.3	2249.9	2181.7	2053.0	1830.4	1490.3	1045.8	56.8
30°	2379.4	2372.6	2368.8	2341.5	2287.8	2182.5	2014.4	1744.8	1324.5	855.7	40.9
32.5°	2428.6	2427.1	2423.3	2396.8	2321.1	2184.0	1949.2	1538.0	1050.4	617.9	28.0
35°	2418.8	2411.2	2397.6	2348.3	2243.1	2071.2	1738.7	1228.3	758.0	414.2	18.2
37.5°	2385.4	2368.0	2341.5	2252.9	2112.8	1878.1	1410.1	904.2	515.7	268.1	10.6
40°	2262.8	2239.3	2197.6	2089.3	1905.3	1547.9	1042.8	611.1	338.5	154.5	3.0
42.5°	1945.5	1915.2	1884.9	1763.7	1553.2	1154.1	686.1	377.9	193.1	84.8	0.8
45°	1333.6	1295.7	1254.1	1166.2	997.3	699.0	408.2	212.8	100.0	47.7	0.8
47.5°	926.2	908.7	836.0	724.0	555.1	370.3	211.3	104.5	53.0	22.0	0.8
50°	629.3	609.6	524.8	416.5	295.3	177.2	96.9	52.3	23.5	5.3	0.8
52.5°	330.2	305.9	252.2	192.3	119.7	74.2	42.4	22.7	6.8	0.8	0.8
55°	48.5	44.7	36.3	29.5	26.5	20.4	12.1	5.3	0.8	0.8	1.5
57.5°	1.5	1.5	1.5	1.5	2.3	2.3	1.5	0.8	0.8	0.8	1.5
60°	1.5	1.5	1.5	1.5	1.5	0.8	0.8	0.8	0.8	0.8	1.5
62.5°	1.5	1.5	1.5	1.5	1.5	0.8	0.8	0.8	0.8	0.8	1.5
65°	1.5	1.5	1.5	1.5	1.5	0.8	0.8	0.8	0.8	0.8	1.5
67.5°	1.5	1.5	1.5	1.5	0.8	0.8	0.8	0.8	0.8	1.5	2.3
70°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	2.3
72.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.5	2.3
75°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	2.3
77.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.5	2.3
80°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.5
82.5°	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8	2.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	1.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	1.5
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):

	90°	112.5°	135°	157.5°	180°
0°	106.0	106.0	106.0	106.0	106.0
2.5°	104.5	77.2	59.8	51.5	50.7
5°	94.7	55.3	36.3	28.0	26.5
7.5°	80.3	38.6	21.2	15.1	14.4
10°	65.9	26.5	12.9	10.6	9.8
12.5°	52.3	17.4	9.1	8.3	7.6
15°	40.1	11.4	6.8	6.1	6.1
17.5°	30.3	7.6	5.3	5.3	5.3
20°	22.7	5.3	3.8	4.5	4.5
22.5°	15.9	3.8	3.0	3.8	3.8
25°	11.4	3.0	3.0	3.8	3.8
27.5°	7.6	2.3	2.3	3.0	3.8
30°	4.5	1.5	2.3	3.0	3.8
32.5°	2.3	1.5	2.3	3.8	3.8
35°	1.5	2.3	3.0	3.8	4.5
37.5°	0.8	2.3	3.0	4.5	4.5
40°	0.8	2.3	3.0	4.5	5.3
42.5°	1.5	3.0	3.8	5.3	6.1
45°	1.5	3.0	4.5	6.1	6.8
47.5°	1.5	3.0	5.3	6.8	6.8
50°	2.3	3.8	5.3	6.8	7.6
52.5°	2.3	3.8	5.3	7.6	8.3
55°	2.3	3.8	6.1	7.6	8.3
57.5°	2.3	4.5	6.1	7.6	8.3
60°	2.3	3.8	6.1	7.6	8.3
62.5°	3.0	3.8	5.3	7.6	7.6
65°	3.0	3.8	5.3	7.6	7.6
67.5°	3.0	3.8	5.3	6.8	6.8
70°	3.0	3.8	4.5	6.1	6.1
72.5°	3.0	3.8	4.5	5.3	6.1
75°	2.3	3.0	3.8	4.5	5.3
77.5°	2.3	3.0	3.0	4.5	4.5
80°	2.3	2.3	2.3	3.0	3.0
82.5°	2.3	2.3	1.5	2.3	2.3
85°	2.3	1.5	1.5	1.5	1.5
87.5°	1.5	1.5	0.8	0.8	0.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)