

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: P1340044

Luminaire Tested: P3A09R159840DE010 E3A301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1340044
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: P3A09R159840DE010 E3A301MW
Description: 3in Adjustable LED luminaire with, R15 optic, 4000K CCT AND, 98CRI , E3A301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

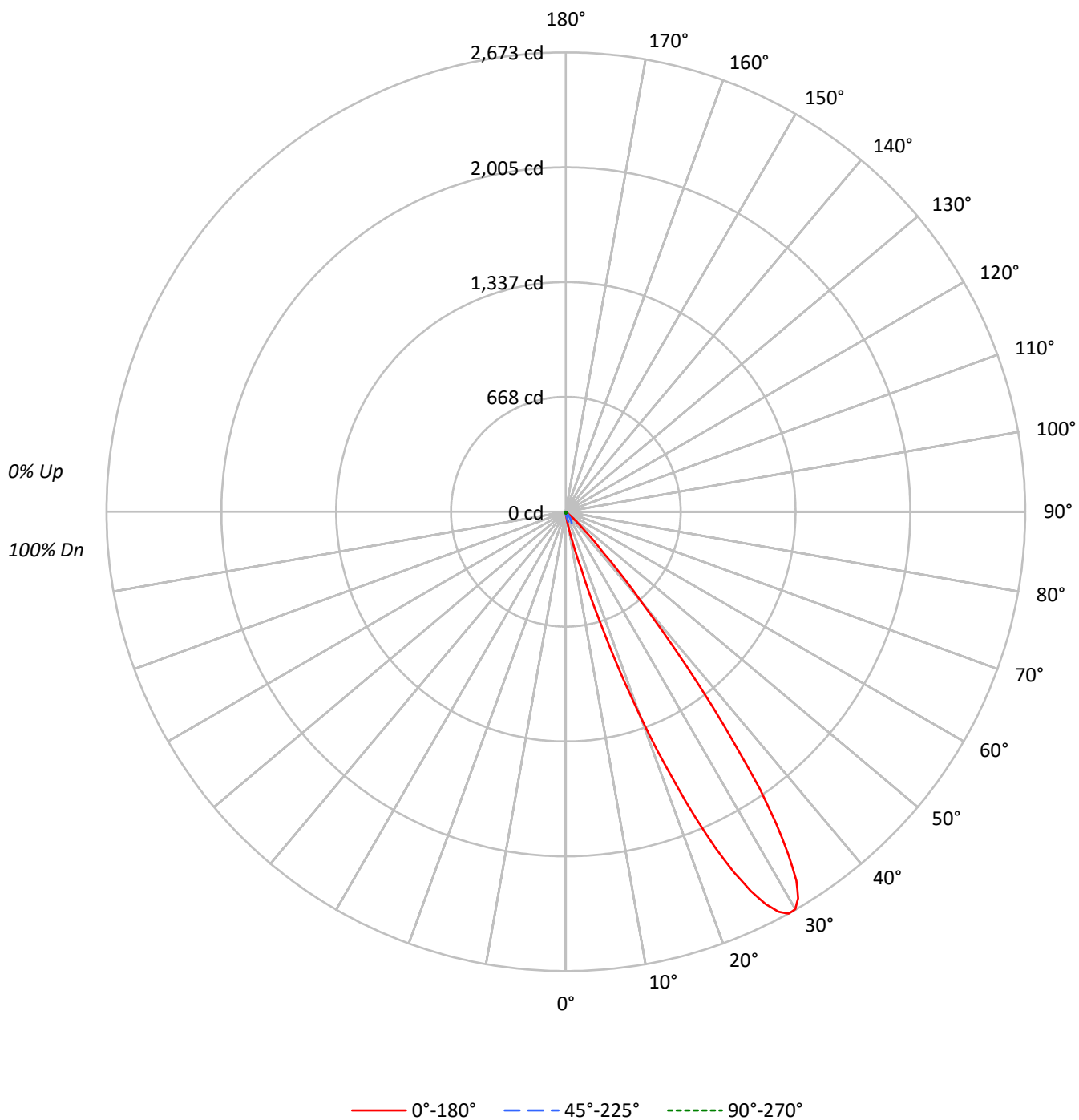
Lumens per Lamp: N/A
Luminaire Lumens: 292.1 lumens
Efficiency: N/A
Efficacy: 26.6 lumens/watt
Spacing Criteria (0/90/45): 2.35 / 0.49 / 1.26
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 11
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	102	102	100
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	93	93	92
2	106	100	96	92	104	98	94	91	95	92	89	92	89	87	89	87	85	85	85	83
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	77	77	75
4	93	84	78	73	91	83	77	72	81	75	71	79	74	70	77	73	70	70	70	68
5	87	77	70	65	85	76	70	65	74	69	64	72	67	64	71	66	63	63	63	61
6	81	71	64	59	80	70	63	58	68	62	58	67	61	57	65	61	57	57	57	55
7	76	65	58	53	74	64	57	53	63	57	52	61	56	52	60	55	52	52	52	50
8	71	60	52	48	70	59	52	47	58	52	47	57	51	47	56	51	47	47	47	45
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	51	46	42	42	42	41
10	62	51	44	39	61	50	43	39	49	43	39	48	43	39	47	42	39	39	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	2127	2127	2127	2127	2127
5°	4556	3368	2003	1057	880
10°	20240	6390	1581	445	312
15°	76550	14756	1090	204	136
20°	294352	20815	653	70	70
25°	559750	19525	339	0	0
30°	676205	15749	152	0	0
35°	527381	10734	80	0	0
40°	192446	5296	86	0	86
45°	49400	1582	93	0	186
50°	8324	205	102	102	307
55°	1070	0	229	344	535
60°	132	132	395	482	746
65°	156	156	571	726	882
70°	192	192	705	705	898
75°	254	254	932	763	932
80°	0	379	1137	758	1137
85°	0	755	2264	755	755

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 49400 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.3	0.5
10°-20°	22.4	7.7
20°-30°	124.1	42.5
30°-40°	119.9	41.1
40°-50°	20.9	7.1
50°-60°	1.5	0.5
60°-70°	0.9	0.3
70°-80°	0.7	0.3
80°-90°	0.4	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°	147.8	50.6
0°-40°	267.7	91.7
0°-60°	290.1	99.3
0°-90°	292.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	292.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	10	10	10	10	10	
5°	21	15	9	5	4	4
15°	337	65	5	1	1	150
25°	2314	81	1	0	0	1034
35°	1970	40	0	0	0	1133
45°	159	5	0	0	1	171
55°	3	0	1	1	1	6
65°	0	0	1	1	2	0
75°	0	0	1	1	1	0
85°	0	0	1	0	0	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°	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7
2.5°	14.2	13.6	13.9	13.9	13.9	13.9	13.9	13.4	13.4	13.6	12.2
5°	20.7	20.7	20.5	20.7	20.7	20.5	19.9	19.6	19.6	19.0	15.3
7.5°	41.5	40.9	40.9	40.3	37.5	36.6	36.1	34.7	32.1	31.5	19.9
10°	90.9	91.2	89.2	86.6	86.3	82.1	80.7	78.1	73.3	68.5	28.7
12.5°	165.0	161.3	156.5	156.8	148.6	145.7	139.2	132.1	124.7	117.0	47.2
15°	337.2	326.6	332.9	317.6	300.2	280.6	260.8	235.8	214.5	191.7	65.0
17.5°	710.1	720.3	703.0	637.4	597.1	549.6	482.9	418.4	363.3	319.0	79.5
20°	1261.4	1276.5	1217.7	1160.6	1062.6	955.8	844.5	718.3	597.6	493.1	89.2
21°	1491.8	1482.7	1458.6	1367.1	1254.0	1130.2	993.9	854.7	708.4	572.6	90.0
22°	1714.5	1718.7	1662.5	1566.8	1449.2	1312.0	1145.5	973.7	816.1	637.4	88.6
23°	1936.3	1950.0	1875.5	1785.8	1637.8	1483.0	1290.4	1104.9	910.1	711.5	85.8
24°	2141.7	2132.3	2082.0	1969.0	1810.8	1629.6	1429.6	1204.6	987.3	774.9	83.5
25°	2313.5	2312.4	2233.4	2123.5	1942.6	1741.7	1521.3	1286.1	1053.5	817.8	80.7
26°	2454.1	2431.1	2368.9	2234.8	2056.2	1844.3	1596.6	1345.5	1090.7	839.3	77.8
27°	2562.6	2546.2	2462.6	2323.2	2136.6	1902.2	1644.9	1375.1	1107.8	846.4	74.1
28°	2635.6	2617.7	2528.8	2385.1	2180.9	1938.6	1670.5	1387.5	1107.8	839.6	70.7
29°	2673.4	2649.0	2560.4	2406.4	2191.1	1942.9	1664.2	1375.3	1090.4	818.6	66.8
30°	2670.6	2640.2	2547.3	2387.1	2160.7	1907.9	1629.3	1331.3	1051.2	787.4	62.2
31°	2624.6	2590.5	2486.8	2321.8	2097.9	1842.0	1563.4	1272.2	997.6	746.7	57.7
32°	2531.1	2487.9	2386.8	2222.3	2001.4	1743.5	1467.6	1181.0	917.2	687.4	52.8
33°	2378.9	2335.4	2226.9	2072.7	1870.7	1618.5	1340.7	1083.1	825.7	616.7	48.9
34°	2188.3	2148.5	2055.0	1899.7	1706.0	1460.3	1194.7	947.6	730.8	546.5	44.6
35°	1970.1	1906.8	1822.1	1699.1	1510.3	1263.1	1037.0	821.5	633.1	472.9	40.1
36°	1675.0	1686.4	1596.6	1446.1	1289.6	1095.8	878.8	684.8	529.5	403.1	36.1
37°	1413.4	1395.5	1338.4	1222.0	1085.6	893.3	736.5	580.6	445.4	340.9	31.8
38°	1140.1	1144.1	1088.2	998.7	863.5	734.5	592.8	476.9	372.7	290.0	27.8
39°	892.5	889.3	874.3	791.3	668.9	584.3	480.3	395.4	310.5	244.6	23.6
40°	672.3	677.4	642.2	592.2	520.9	451.3	382.6	315.3	256.8	206.2	18.5
42.5°	326.9	334.9	311.6	298.8	267.3	240.0	202.5	165.3	140.6	121.6	8.2
45°	159.3	154.8	152.8	146.6	139.2	124.4	110.2	94.6	82.7	71.3	5.1
47.5°	81.5	79.2	79.2	76.7	74.1	69.3	62.2	57.1	51.4	44.3	2.0
50°	24.4	24.1	23.9	24.1	23.3	24.1	24.7	25.0	22.7	22.4	0.6
52.5°	9.7	9.9	9.7	10.5	10.5	10.2	10.5	10.2	9.9	8.8	0.0
55°	2.8	2.8	2.8	2.8	2.8	2.8	3.1	3.4	3.1	3.4	0.0
57.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.0
60°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.3
62.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
65°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
67.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
70°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
72.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
75°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3



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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	0.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
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°	9.7	9.7	9.7	9.7	9.7	9.7
2.5°	11.4	9.9	8.2	6.8	6.2	6.0
5°	12.2	9.1	6.2	4.8	4.3	4.0
7.5°	13.1	8.2	4.8	3.4	2.6	2.3
10°	13.6	7.1	3.7	2.0	1.4	1.4
12.5°	13.6	5.7	2.6	1.1	0.9	0.9
15°	13.4	4.8	1.7	0.9	0.6	0.6
17.5°	13.1	3.7	1.1	0.6	0.3	0.6
20°	12.2	2.8	0.6	0.3	0.3	0.3
21°	11.9	2.6	0.6	0.3	0.3	0.3
22°	11.4	2.3	0.3	0.0	0.3	0.3
23°	10.8	1.7	0.3	0.0	0.0	0.0
24°	9.9	1.4	0.3	0.0	0.0	0.0
25°	9.4	1.4	0.3	0.0	0.0	0.0
26°	8.8	0.9	0.0	0.0	0.0	0.0
27°	8.0	0.6	0.0	0.0	0.0	0.0
28°	7.4	0.6	0.0	0.0	0.0	0.0
29°	6.5	0.6	0.0	0.0	0.0	0.0
30°	5.7	0.6	0.0	0.0	0.0	0.0
31°	4.5	0.3	0.0	0.0	0.0	0.0
32°	3.7	0.3	0.0	0.0	0.0	0.0
33°	2.6	0.3	0.0	0.0	0.0	0.0
34°	1.7	0.3	0.0	0.0	0.0	0.0
35°	1.4	0.3	0.0	0.0	0.0	0.0
36°	0.9	0.3	0.0	0.0	0.0	0.3
37°	0.9	0.3	0.0	0.0	0.0	0.3
38°	0.6	0.3	0.0	0.0	0.0	0.3
39°	0.3	0.3	0.0	0.0	0.0	0.3
40°	0.3	0.3	0.0	0.0	0.0	0.3
42.5°	0.0	0.3	0.0	0.0	0.3	0.6
45°	0.0	0.3	0.0	0.0	0.3	0.6
47.5°	0.0	0.3	0.0	0.0	0.6	0.6
50°	0.0	0.3	0.3	0.3	0.6	0.9
52.5°	0.0	0.6	0.3	0.6	0.9	1.1
55°	0.3	0.6	0.6	0.9	1.1	1.4
57.5°	0.3	0.9	0.9	1.1	1.4	1.4
60°	0.6	0.9	1.1	1.1	1.7	1.7
62.5°	0.6	1.1	1.1	1.1	1.7	1.7
65°	0.6	1.1	1.1	1.4	1.7	1.7
67.5°	0.6	1.1	1.1	1.1	1.4	1.7
70°	0.6	1.1	0.9	1.1	1.4	1.4
72.5°	0.6	1.1	0.9	0.9	1.1	1.4
75°	0.6	1.1	0.9	0.9	1.1	1.1
77.5°	0.6	0.9	0.9	0.6	0.9	0.9
80°	0.6	0.9	0.6	0.6	0.9	0.9



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.6	0.9	0.6	0.3	0.6	0.6
85°	0.6	0.9	0.6	0.3	0.3	0.3
87.5°	0.6	0.9	0.3	0.0	0.0	0.3
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)