

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: P1339998

Luminaire Tested: P3A09R159827DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1339998
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: P3A09R159827DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R15 optic, 2700K CCT AND, 98CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

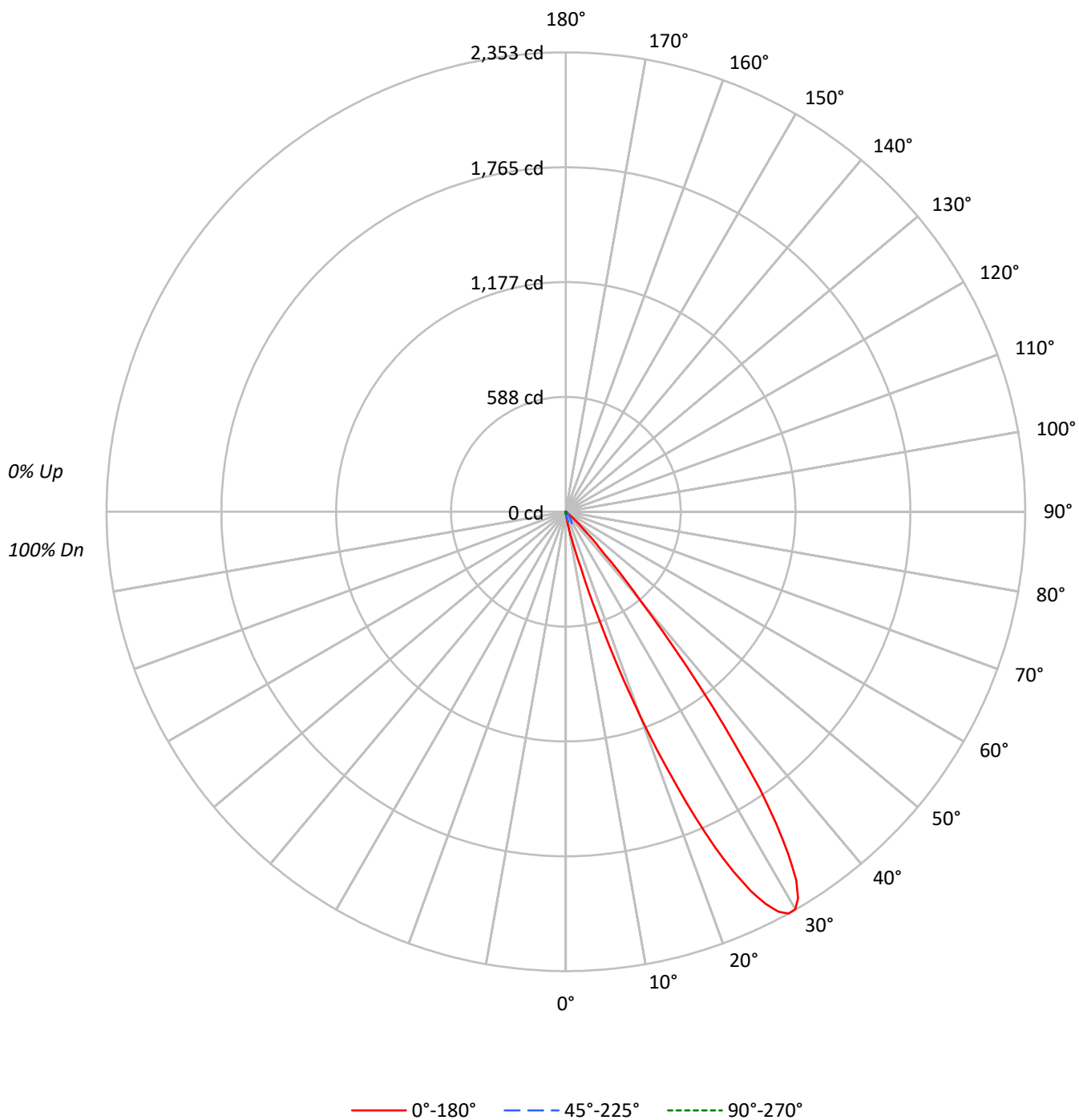
Lumens per Lamp: N/A
Luminaire Lumens: 256.9 lumens
Efficiency: N/A
Efficacy: 23.4 lumens/watt
Spacing Criteria (0/90/45): 2.35 / 0.49 / 1.26
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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	99	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	53	48	70	59	52	48	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°	1864	1864	1864	1864	1864
5°	4006	2972	1761	924	770
10°	17813	5611	1381	379	267
15°	67356	12985	953	159	114
20°	259069	18318	583	47	47
25°	492657	17178	290	0	0
30°	595155	13850	127	0	0
35°	464178	9423	54	0	0
40°	169374	4637	57	0	57
45°	43477	1395	62	0	155
50°	7335	171	68	68	239
55°	956	0	191	268	459
60°	88	88	307	439	658
65°	104	104	519	623	778
70°	128	128	641	641	769
75°	169	169	847	593	847
80°	0	253	884	631	884
85°	0	503	1761	503	503

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 43477 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.2	0.5
10°-20°	19.7	7.7
20°-30°	109.2	42.5
30°-40°	105.5	41.1
40°-50°	18.3	7.1
50°-60°	1.3	0.5
60°-70°	0.8	0.3
70°-80°	0.6	0.2
80°-90°	0.3	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°	130.1	50.6
0°-40°	235.6	91.7
0°-60°	255.2	99.4
0°-90°	256.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	256.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	8	8	8	8	8	
5°	18	14	8	4	4	4
15°	297	57	4	1	0	132
25°	2036	71	1	0	0	910
35°	1734	35	0	0	0	997
45°	140	4	0	0	0	151
55°	2	0	0	1	1	5
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°	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5
2.5°	12.5	12.0	12.2	12.2	12.2	12.2	12.2	11.7	11.7	12.0	10.7
5°	18.2	18.2	18.0	18.2	18.2	18.0	17.5	17.2	17.2	16.7	13.5
7.5°	36.5	36.0	36.0	35.5	33.0	32.2	31.7	30.5	28.2	27.7	17.5
10°	80.0	80.2	78.5	76.2	76.0	72.2	71.0	68.7	64.5	60.2	25.2
12.5°	145.2	142.0	137.7	138.0	130.7	128.2	122.5	116.2	109.7	103.0	41.5
15°	296.7	287.5	293.0	279.5	264.2	247.0	229.5	207.5	188.7	168.7	57.2
17.5°	625.0	634.0	618.7	561.0	525.5	483.7	425.0	368.2	319.7	280.7	70.0
20°	1110.2	1123.5	1071.7	1021.5	935.2	841.2	743.2	632.2	526.0	434.0	78.5
21°	1313.0	1305.0	1283.7	1203.2	1103.7	994.7	874.7	752.2	623.5	504.0	79.2
22°	1509.0	1512.7	1463.2	1379.0	1275.5	1154.7	1008.2	857.0	718.2	561.0	78.0
23°	1704.2	1716.2	1650.7	1571.7	1441.5	1305.2	1135.7	972.5	801.0	626.2	75.5
24°	1885.0	1876.7	1832.5	1733.0	1593.7	1434.2	1258.2	1060.2	869.0	682.0	73.5
25°	2036.2	2035.2	1965.7	1869.0	1709.7	1533.0	1339.0	1132.0	927.2	719.7	71.0
26°	2160.0	2139.7	2085.0	1967.0	1809.7	1623.2	1405.2	1184.2	960.0	738.7	68.5
27°	2255.5	2241.0	2167.5	2044.7	1880.5	1674.2	1447.7	1210.2	975.0	745.0	65.2
28°	2319.7	2304.0	2225.7	2099.2	1919.5	1706.2	1470.2	1221.2	975.0	739.0	62.2
29°	2353.0	2331.5	2253.5	2118.0	1928.5	1710.0	1464.7	1210.5	959.7	720.5	58.7
30°	2350.5	2323.7	2242.0	2101.0	1901.7	1679.2	1434.0	1171.7	925.2	693.0	54.7
31°	2310.0	2280.0	2188.7	2043.5	1846.5	1621.2	1376.0	1119.7	878.0	657.2	50.7
32°	2227.7	2189.7	2100.7	1956.0	1761.5	1534.5	1291.7	1039.5	807.2	605.0	46.5
33°	2093.7	2055.5	1960.0	1824.2	1646.5	1424.5	1180.0	953.2	726.7	542.7	43.0
34°	1926.0	1891.0	1808.7	1672.0	1501.5	1285.2	1051.5	834.0	643.2	481.0	39.2
35°	1734.0	1678.2	1603.7	1495.5	1329.2	1111.7	912.7	723.0	557.2	416.2	35.2
36°	1474.2	1484.2	1405.2	1272.7	1135.0	964.5	773.5	602.7	466.0	354.7	31.7
37°	1244.0	1228.2	1178.0	1075.5	955.5	786.2	648.2	511.0	392.0	300.0	28.0
38°	1003.5	1007.0	957.7	879.0	760.0	646.5	521.7	419.7	328.0	255.2	24.5
39°	785.5	782.7	769.5	696.5	588.7	514.2	422.7	348.0	273.2	215.2	20.7
40°	591.7	596.2	565.2	521.2	458.5	397.2	336.7	277.5	226.0	181.5	16.2
42.5°	287.7	294.7	274.2	263.0	235.2	211.2	178.2	145.5	123.7	107.0	7.2
45°	140.2	136.2	134.5	129.0	122.5	109.5	97.0	83.2	72.7	62.7	4.5
47.5°	71.7	69.7	69.7	67.5	65.2	61.0	54.7	50.2	45.2	39.0	1.7
50°	21.5	21.2	21.0	21.2	20.5	21.2	21.7	22.0	20.0	19.7	0.5
52.5°	8.5	8.7	8.5	9.2	9.2	9.0	9.2	9.0	8.7	7.7	0.0
55°	2.5	2.5	2.5	2.5	2.5	2.5	2.7	3.0	2.7	3.0	0.0
57.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.0
60°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.2
62.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
65°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
67.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
70°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
72.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
75°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2



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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	0.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
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°	8.5	8.5	8.5	8.5	8.5	8.5
2.5°	10.0	8.7	7.2	6.0	5.5	5.2
5°	10.7	8.0	5.5	4.2	3.7	3.5
7.5°	11.5	7.2	4.2	3.0	2.2	2.0
10°	12.0	6.2	3.2	1.7	1.2	1.2
12.5°	12.0	5.0	2.2	1.0	0.7	0.7
15°	11.7	4.2	1.5	0.7	0.5	0.5
17.5°	11.5	3.2	1.0	0.5	0.2	0.5
20°	10.7	2.5	0.5	0.2	0.2	0.2
21°	10.5	2.2	0.5	0.2	0.2	0.2
22°	10.0	2.0	0.2	0.0	0.2	0.2
23°	9.5	1.5	0.2	0.0	0.0	0.0
24°	8.7	1.2	0.2	0.0	0.0	0.0
25°	8.2	1.2	0.2	0.0	0.0	0.0
26°	7.7	0.7	0.0	0.0	0.0	0.0
27°	7.0	0.5	0.0	0.0	0.0	0.0
28°	6.5	0.5	0.0	0.0	0.0	0.0
29°	5.7	0.5	0.0	0.0	0.0	0.0
30°	5.0	0.5	0.0	0.0	0.0	0.0
31°	4.0	0.2	0.0	0.0	0.0	0.0
32°	3.2	0.2	0.0	0.0	0.0	0.0
33°	2.2	0.2	0.0	0.0	0.0	0.0
34°	1.5	0.2	0.0	0.0	0.0	0.0
35°	1.2	0.2	0.0	0.0	0.0	0.0
36°	0.7	0.2	0.0	0.0	0.0	0.2
37°	0.7	0.2	0.0	0.0	0.0	0.2
38°	0.5	0.2	0.0	0.0	0.0	0.2
39°	0.2	0.2	0.0	0.0	0.0	0.2
40°	0.2	0.2	0.0	0.0	0.0	0.2
42.5°	0.0	0.2	0.0	0.0	0.2	0.5
45°	0.0	0.2	0.0	0.0	0.2	0.5
47.5°	0.0	0.2	0.0	0.0	0.5	0.5
50°	0.0	0.2	0.2	0.2	0.5	0.7
52.5°	0.0	0.5	0.2	0.5	0.7	1.0
55°	0.2	0.5	0.5	0.7	1.0	1.2
57.5°	0.2	0.7	0.7	1.0	1.2	1.2
60°	0.5	0.7	1.0	1.0	1.5	1.5
62.5°	0.5	1.0	1.0	1.0	1.5	1.5
65°	0.5	1.0	1.0	1.2	1.5	1.5
67.5°	0.5	1.0	1.0	1.0	1.2	1.5
70°	0.5	1.0	0.7	1.0	1.2	1.2
72.5°	0.5	1.0	0.7	0.7	1.0	1.2
75°	0.5	1.0	0.7	0.7	1.0	1.0
77.5°	0.5	0.7	0.7	0.5	0.7	0.7
80°	0.5	0.7	0.5	0.5	0.7	0.7



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.5	0.7	0.5	0.2	0.5	0.5
85°	0.5	0.7	0.5	0.2	0.2	0.2
87.5°	0.5	0.7	0.2	0.0	0.0	0.2
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)