

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: P1336286

Luminaire Tested: P3A05R159024DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1336286
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: P3A05R159024DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R15 optic, 2400K CCT AND, 90CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

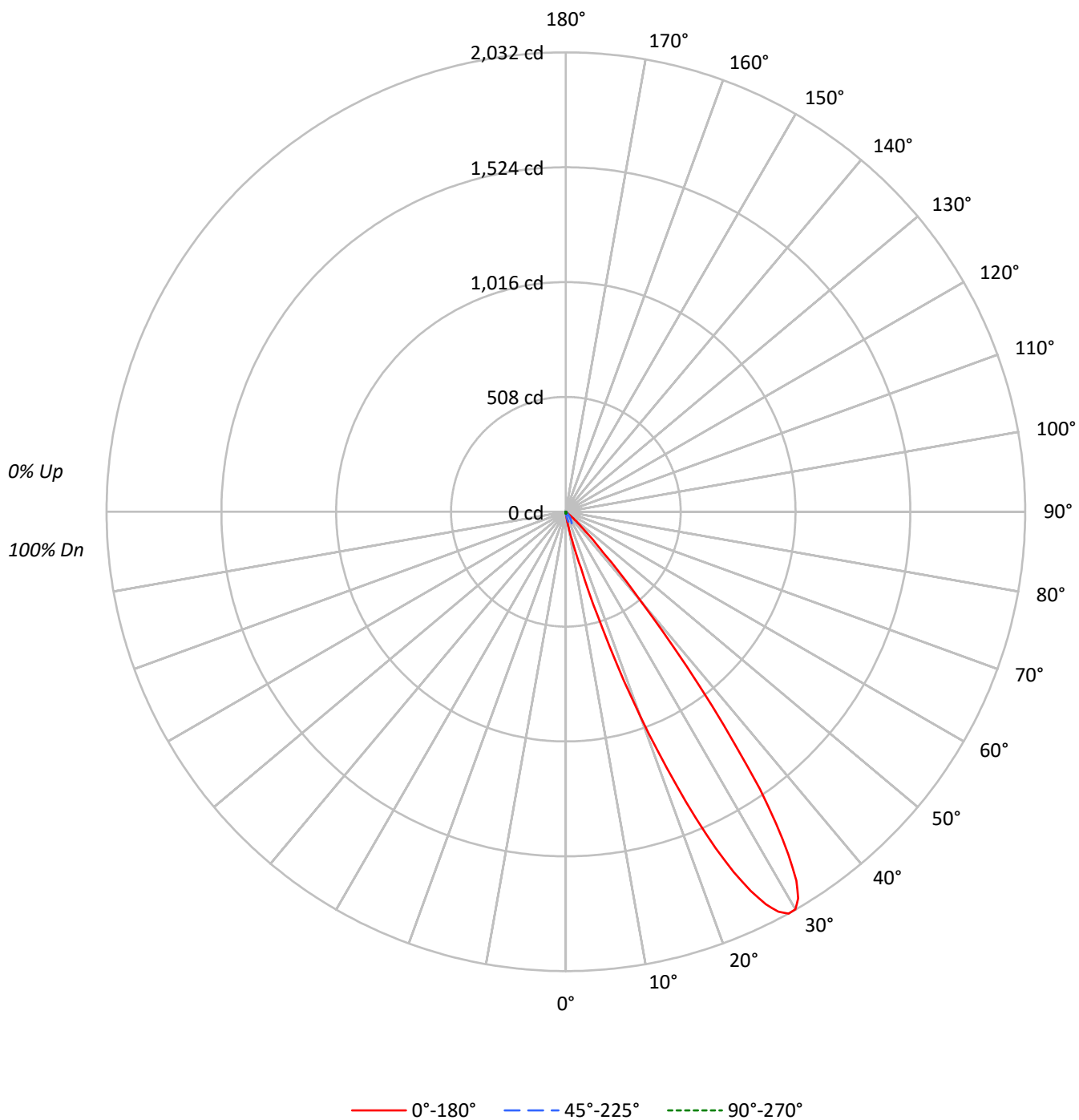
Lumens per Lamp: N/A
Luminaire Lumens: 221.9 lumens
Efficiency: N/A
Efficacy: 30.8 lumens/watt
Spacing Criteria (0/90/45): 2.35 / 0.49 / 1.26
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 7.2
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°	1601	1601	1601	1601	1601
5°	3478	2575	1519	814	660
10°	15386	4854	1202	334	245
15°	58184	11237	840	136	91
20°	223786	15821	513	47	47
25°	425565	14832	266	0	0
30°	514104	11977	101	0	0
35°	400949	8138	54	0	0
40°	146331	4008	57	0	57
45°	37554	1209	62	0	124
50°	6345	136	68	68	205
55°	841	0	153	229	421
60°	88	88	263	395	570
65°	104	104	467	571	675
70°	128	128	577	577	705
75°	169	169	763	508	763
80°	0	253	758	505	758
85°	0	503	1510	503	503

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 37554 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.0	0.5
10°-20°	17.0	7.7
20°-30°	94.3	42.5
30°-40°	91.1	41.1
40°-50°	15.8	7.1
50°-60°	1.1	0.5
60°-70°	0.7	0.3
70°-80°	0.5	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°	112.4	50.6
0°-40°	203.5	91.7
0°-60°	220.5	99.3
0°-90°	221.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	221.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	7	7	7	7	7	
5°	16	12	7	4	3	3
15°	256	50	4	1	0	114
25°	1759	61	1	0	0	786
35°	1498	30	0	0	0	861
45°	121	4	0	0	0	130
55°	2	0	0	1	1	4
65°	0	0	1	1	1	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°	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3
2.5°	10.8	10.4	10.6	10.6	10.6	10.6	10.6	10.1	10.1	10.4	9.3
5°	15.8	15.8	15.5	15.8	15.8	15.5	15.1	14.9	14.9	14.5	11.7
7.5°	31.5	31.1	31.1	30.7	28.5	27.9	27.4	26.3	24.4	24.0	15.1
10°	69.1	69.3	67.8	65.9	65.6	62.4	61.3	59.4	55.7	52.0	21.8
12.5°	125.5	122.7	119.0	119.2	112.9	110.8	105.8	100.4	94.8	89.0	35.8
15°	256.3	248.3	253.1	241.4	228.3	213.4	198.2	179.2	163.0	145.8	49.5
17.5°	539.9	547.6	534.5	484.6	453.9	417.9	367.1	318.1	276.2	242.5	60.5
20°	959.0	970.5	925.8	882.4	807.9	726.7	642.0	546.1	454.4	374.9	67.8
21°	1134.2	1127.3	1108.9	1039.4	953.4	859.3	755.6	649.8	538.6	435.4	68.5
22°	1303.5	1306.7	1264.0	1191.2	1101.8	997.5	870.9	740.3	620.4	484.6	67.4
23°	1472.1	1482.5	1425.9	1357.7	1245.2	1127.5	981.1	840.0	691.9	541.0	65.2
24°	1628.3	1621.1	1582.9	1497.0	1376.7	1238.9	1086.9	915.8	750.6	589.1	63.5
25°	1758.9	1758.1	1698.0	1614.4	1476.9	1324.2	1156.6	977.8	801.0	621.7	61.3
26°	1865.8	1848.3	1801.0	1699.1	1563.3	1402.2	1213.9	1023.0	829.2	638.1	59.2
27°	1948.3	1935.8	1872.3	1766.3	1624.4	1446.2	1250.6	1045.4	842.2	643.5	56.4
28°	2003.8	1990.2	1922.6	1813.3	1658.1	1473.9	1270.0	1054.9	842.2	638.3	53.8
29°	2032.5	2014.0	1946.6	1829.5	1665.8	1477.1	1265.3	1045.6	829.0	622.4	50.7
30°	2030.4	2007.3	1936.6	1814.8	1642.7	1450.5	1238.7	1012.2	799.2	598.6	47.3
31°	1995.4	1969.5	1890.6	1765.2	1595.0	1400.4	1188.6	967.2	758.4	567.7	43.8
32°	1924.3	1891.5	1814.6	1689.6	1521.6	1325.5	1115.8	897.9	697.3	522.6	40.2
33°	1808.6	1775.5	1693.0	1575.8	1422.2	1230.5	1019.3	823.4	627.8	468.8	37.1
34°	1663.7	1633.4	1562.4	1444.3	1297.0	1110.2	908.3	720.4	555.6	415.5	33.9
35°	1497.8	1449.7	1385.3	1291.8	1148.2	960.3	788.4	624.5	481.4	359.6	30.4
36°	1273.5	1282.1	1213.9	1099.4	980.4	833.1	668.1	520.7	402.5	306.4	27.4
37°	1074.6	1061.0	1017.6	929.0	825.4	679.2	560.0	441.4	338.6	259.1	24.2
38°	866.8	869.8	827.3	759.3	656.5	558.4	450.7	362.6	283.3	220.5	21.2
39°	678.5	676.1	664.7	601.6	508.6	444.2	365.2	300.6	236.0	185.9	17.9
40°	511.2	515.0	488.3	450.3	396.1	343.1	290.9	239.7	195.2	156.8	14.0
42.5°	248.6	254.6	236.9	227.2	203.2	182.5	154.0	125.7	106.9	92.4	6.3
45°	121.1	117.7	116.2	111.4	105.8	94.6	83.8	71.9	62.8	54.2	3.9
47.5°	62.0	60.3	60.3	58.3	56.4	52.7	47.3	43.4	39.1	33.7	1.5
50°	18.6	18.4	18.1	18.4	17.7	18.4	18.8	19.0	17.3	17.1	0.4
52.5°	7.3	7.6	7.3	8.0	8.0	7.8	8.0	7.8	7.6	6.7	0.0
55°	2.2	2.2	2.2	2.2	2.2	2.2	2.4	2.6	2.4	2.6	0.0
57.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	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°	7.3	7.3	7.3	7.3	7.3	7.3
2.5°	8.6	7.6	6.3	5.2	4.8	4.5
5°	9.3	6.9	4.8	3.7	3.2	3.0
7.5°	9.9	6.3	3.7	2.6	1.9	1.7
10°	10.4	5.4	2.8	1.5	1.1	1.1
12.5°	10.4	4.3	1.9	0.9	0.6	0.6
15°	10.1	3.7	1.3	0.6	0.4	0.4
17.5°	9.9	2.8	0.9	0.4	0.2	0.4
20°	9.3	2.2	0.4	0.2	0.2	0.2
21°	9.1	1.9	0.4	0.2	0.2	0.2
22°	8.6	1.7	0.2	0.0	0.2	0.2
23°	8.2	1.3	0.2	0.0	0.0	0.0
24°	7.6	1.1	0.2	0.0	0.0	0.0
25°	7.1	1.1	0.2	0.0	0.0	0.0
26°	6.7	0.6	0.0	0.0	0.0	0.0
27°	6.0	0.4	0.0	0.0	0.0	0.0
28°	5.6	0.4	0.0	0.0	0.0	0.0
29°	5.0	0.4	0.0	0.0	0.0	0.0
30°	4.3	0.4	0.0	0.0	0.0	0.0
31°	3.5	0.2	0.0	0.0	0.0	0.0
32°	2.8	0.2	0.0	0.0	0.0	0.0
33°	1.9	0.2	0.0	0.0	0.0	0.0
34°	1.3	0.2	0.0	0.0	0.0	0.0
35°	1.1	0.2	0.0	0.0	0.0	0.0
36°	0.6	0.2	0.0	0.0	0.0	0.2
37°	0.6	0.2	0.0	0.0	0.0	0.2
38°	0.4	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	0.4
45°	0.0	0.2	0.0	0.0	0.2	0.4
47.5°	0.0	0.2	0.0	0.0	0.4	0.4
50°	0.0	0.2	0.2	0.2	0.4	0.6
52.5°	0.0	0.4	0.2	0.4	0.6	0.9
55°	0.2	0.4	0.4	0.6	0.9	1.1
57.5°	0.2	0.6	0.6	0.9	1.1	1.1
60°	0.4	0.6	0.9	0.9	1.3	1.3
62.5°	0.4	0.9	0.9	0.9	1.3	1.3
65°	0.4	0.9	0.9	1.1	1.3	1.3
67.5°	0.4	0.9	0.9	0.9	1.1	1.3
70°	0.4	0.9	0.6	0.9	1.1	1.1
72.5°	0.4	0.9	0.6	0.6	0.9	1.1
75°	0.4	0.9	0.6	0.6	0.9	0.9
77.5°	0.4	0.6	0.6	0.4	0.6	0.6
80°	0.4	0.6	0.4	0.4	0.6	0.6



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.4	0.6	0.4	0.2	0.4	0.4
85°	0.4	0.6	0.4	0.2	0.2	0.2
87.5°	0.4	0.6	0.2	0.0	0.0	0.2
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)