

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: P1336420

Luminaire Tested: P3A05R159735DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1336420
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: P3A05R159735DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R15 optic, 3500K CCT AND, 97CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

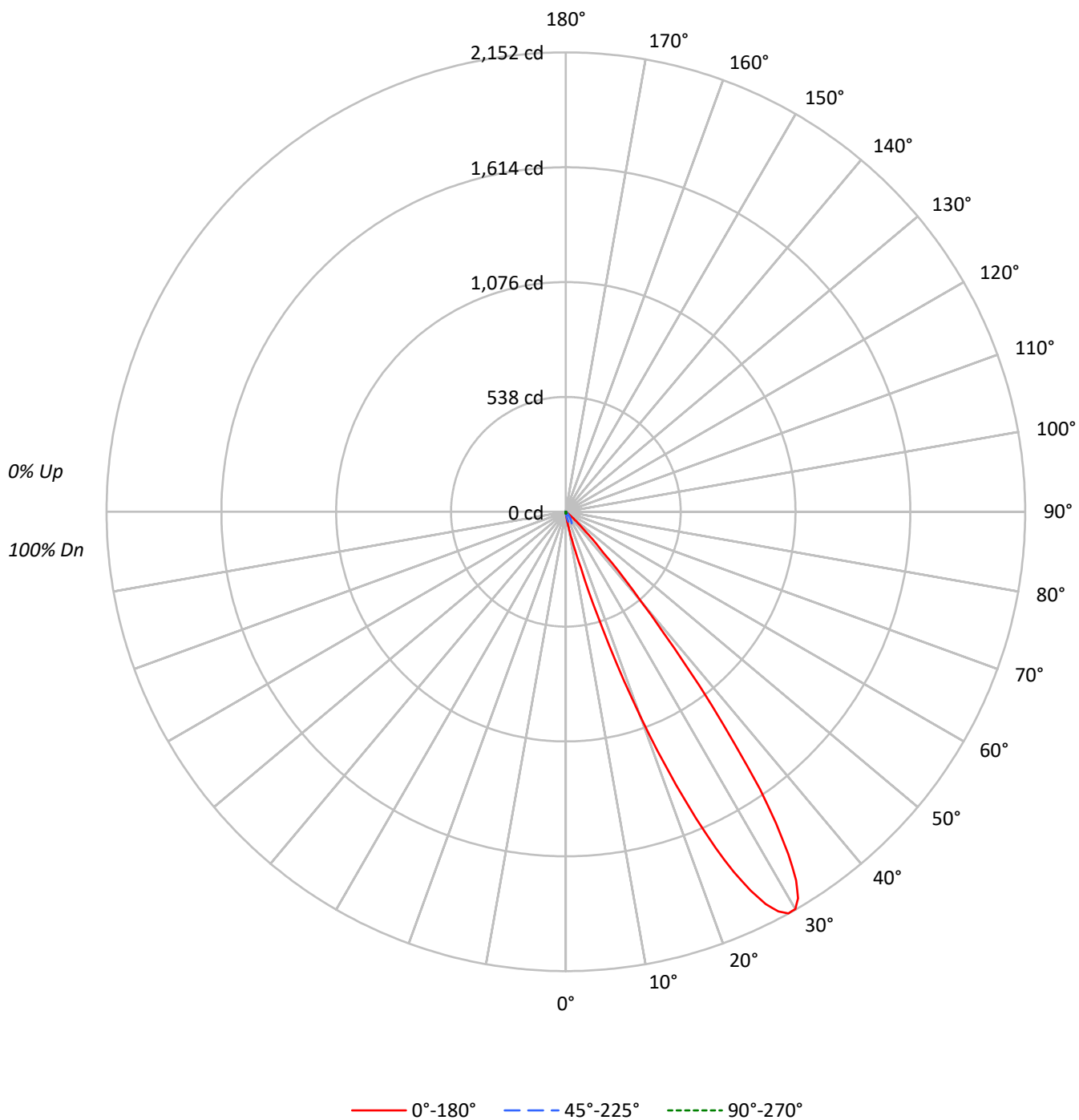
Lumens per Lamp: N/A
Luminaire Lumens: 235.0 lumens
Efficiency: N/A
Efficacy: 32.6 lumens/watt
Spacing Criteria (0/90/45): 2.35 / 0.49 / 1.26
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	1710	1710	1710	1710	1710
5°	3676	2707	1607	858	704
10°	16299	5144	1269	356	245
15°	61589	11873	885	159	114
20°	236901	16755	537	47	47
25°	450486	15703	266	0	0
30°	544210	12685	127	0	0
35°	424426	8620	54	0	0
40°	154890	4265	57	0	57
45°	39756	1271	62	0	155
50°	6720	171	68	68	239
55°	879	0	191	268	421
60°	88	88	307	395	614
65°	104	104	467	571	726
70°	128	128	577	577	705
75°	169	169	763	593	763
80°	0	253	884	631	884
85°	0	503	1761	503	503

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 39756 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.1	0.5
10°-20°	18.0	7.7
20°-30°	99.9	42.5
30°-40°	96.5	41.1
40°-50°	16.8	7.1
50°-60°	1.2	0.5
60°-70°	0.7	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°	118.9	50.6
0°-40°	215.4	91.7
0°-60°	233.4	99.3
0°-90°	235.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	235.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	8	8	8	8	8	
5°	17	12	7	4	3	3
15°	271	52	4	1	0	121
25°	1862	65	1	0	0	833
35°	1586	32	0	0	0	912
45°	128	4	0	0	0	138
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°	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
2.5°	11.4	11.0	11.2	11.2	11.2	11.2	11.2	10.7	10.7	11.0	9.8
5°	16.7	16.7	16.5	16.7	16.7	16.5	16.0	15.8	15.8	15.3	12.3
7.5°	33.4	32.9	32.9	32.5	30.2	29.5	29.0	27.9	25.8	25.4	16.0
10°	73.2	73.4	71.8	69.7	69.5	66.1	64.9	62.9	59.0	55.1	23.1
12.5°	132.8	129.8	126.0	126.2	119.6	117.3	112.0	106.3	100.4	94.2	37.9
15°	271.3	262.9	267.9	255.6	241.6	225.9	209.9	189.7	172.6	154.3	52.3
17.5°	571.5	579.7	565.8	513.0	480.5	442.3	388.6	336.7	292.4	256.7	64.0
20°	1015.2	1027.3	980.0	934.0	855.2	769.2	679.6	578.1	481.0	396.8	71.8
21°	1200.6	1193.3	1173.8	1100.2	1009.3	909.6	799.9	687.8	570.1	460.8	72.5
22°	1379.8	1383.2	1338.0	1260.9	1166.3	1055.9	921.9	783.6	656.8	513.0	71.3
23°	1558.3	1569.3	1509.4	1437.2	1318.1	1193.5	1038.5	889.2	732.4	572.6	69.0
24°	1723.6	1716.1	1675.6	1584.6	1457.3	1311.5	1150.5	969.5	794.6	623.6	67.2
25°	1861.9	1861.0	1797.4	1709.0	1563.4	1401.8	1224.4	1035.1	847.9	658.1	64.9
26°	1975.1	1956.6	1906.5	1798.6	1654.8	1484.3	1284.9	1082.9	877.8	675.5	62.6
27°	2062.4	2049.1	1981.9	1869.7	1719.5	1530.9	1323.8	1106.6	891.5	681.2	59.7
28°	2121.1	2106.7	2035.2	1919.5	1755.2	1560.2	1344.4	1116.7	891.5	675.7	56.9
29°	2151.5	2131.9	2060.6	1936.7	1763.4	1563.6	1339.3	1106.9	877.6	658.8	53.7
30°	2149.3	2124.8	2050.0	1921.1	1738.9	1535.5	1311.2	1071.4	846.0	633.7	50.1
31°	2112.2	2084.8	2001.4	1868.5	1688.4	1482.4	1258.2	1023.9	802.8	601.0	46.4
32°	2037.0	2002.3	1920.9	1788.5	1610.7	1403.1	1181.2	950.5	738.1	553.2	42.5
33°	1914.5	1879.5	1792.2	1668.1	1505.5	1302.5	1079.0	871.6	664.5	496.3	39.3
34°	1761.1	1729.1	1653.9	1528.8	1372.9	1175.2	961.5	762.6	588.2	439.8	35.9
35°	1585.5	1534.6	1466.4	1367.5	1215.4	1016.6	834.6	661.1	509.5	380.6	32.2
36°	1348.0	1357.2	1284.9	1163.8	1037.8	881.9	707.3	551.1	426.1	324.4	29.0
37°	1137.5	1123.1	1077.1	983.4	873.7	718.9	592.7	467.3	358.4	274.3	25.6
38°	917.6	920.8	875.8	803.7	694.9	591.1	477.1	383.8	299.9	233.4	22.4
39°	718.2	715.7	703.6	636.9	538.3	470.2	386.6	318.2	249.9	196.8	19.0
40°	541.1	545.2	516.9	476.6	419.2	363.2	307.9	253.7	206.7	166.0	14.9
42.5°	263.1	269.5	250.8	240.5	215.1	193.2	163.0	133.0	113.2	97.8	6.6
45°	128.2	124.6	123.0	118.0	112.0	100.1	88.7	76.1	66.5	57.4	4.1
47.5°	65.6	63.8	63.8	61.7	59.7	55.8	50.1	45.9	41.4	35.7	1.6
50°	19.7	19.4	19.2	19.4	18.7	19.4	19.9	20.1	18.3	18.1	0.5
52.5°	7.8	8.0	7.8	8.5	8.5	8.2	8.5	8.2	8.0	7.1	0.0
55°	2.3	2.3	2.3	2.3	2.3	2.3	2.5	2.7	2.5	2.7	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°	7.8	7.8	7.8	7.8	7.8	7.8
2.5°	9.1	8.0	6.6	5.5	5.0	4.8
5°	9.8	7.3	5.0	3.9	3.4	3.2
7.5°	10.5	6.6	3.9	2.7	2.1	1.8
10°	11.0	5.7	3.0	1.6	1.1	1.1
12.5°	11.0	4.6	2.1	0.9	0.7	0.7
15°	10.7	3.9	1.4	0.7	0.5	0.5
17.5°	10.5	3.0	0.9	0.5	0.2	0.5
20°	9.8	2.3	0.5	0.2	0.2	0.2
21°	9.6	2.1	0.5	0.2	0.2	0.2
22°	9.1	1.8	0.2	0.0	0.2	0.2
23°	8.7	1.4	0.2	0.0	0.0	0.0
24°	8.0	1.1	0.2	0.0	0.0	0.0
25°	7.5	1.1	0.2	0.0	0.0	0.0
26°	7.1	0.7	0.0	0.0	0.0	0.0
27°	6.4	0.5	0.0	0.0	0.0	0.0
28°	5.9	0.5	0.0	0.0	0.0	0.0
29°	5.3	0.5	0.0	0.0	0.0	0.0
30°	4.6	0.5	0.0	0.0	0.0	0.0
31°	3.7	0.2	0.0	0.0	0.0	0.0
32°	3.0	0.2	0.0	0.0	0.0	0.0
33°	2.1	0.2	0.0	0.0	0.0	0.0
34°	1.4	0.2	0.0	0.0	0.0	0.0
35°	1.1	0.2	0.0	0.0	0.0	0.0
36°	0.7	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	0.9
55°	0.2	0.5	0.5	0.7	0.9	1.1
57.5°	0.2	0.7	0.7	0.9	1.1	1.1
60°	0.5	0.7	0.9	0.9	1.4	1.4
62.5°	0.5	0.9	0.9	0.9	1.4	1.4
65°	0.5	0.9	0.9	1.1	1.4	1.4
67.5°	0.5	0.9	0.9	0.9	1.1	1.4
70°	0.5	0.9	0.7	0.9	1.1	1.1
72.5°	0.5	0.9	0.7	0.7	0.9	1.1
75°	0.5	0.9	0.7	0.7	0.9	0.9
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)