

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: P1336452

Luminaire Tested: P3A05R159827DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1336452
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: P3A05R159827DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R15 optic, 2700K CCT AND, 98CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

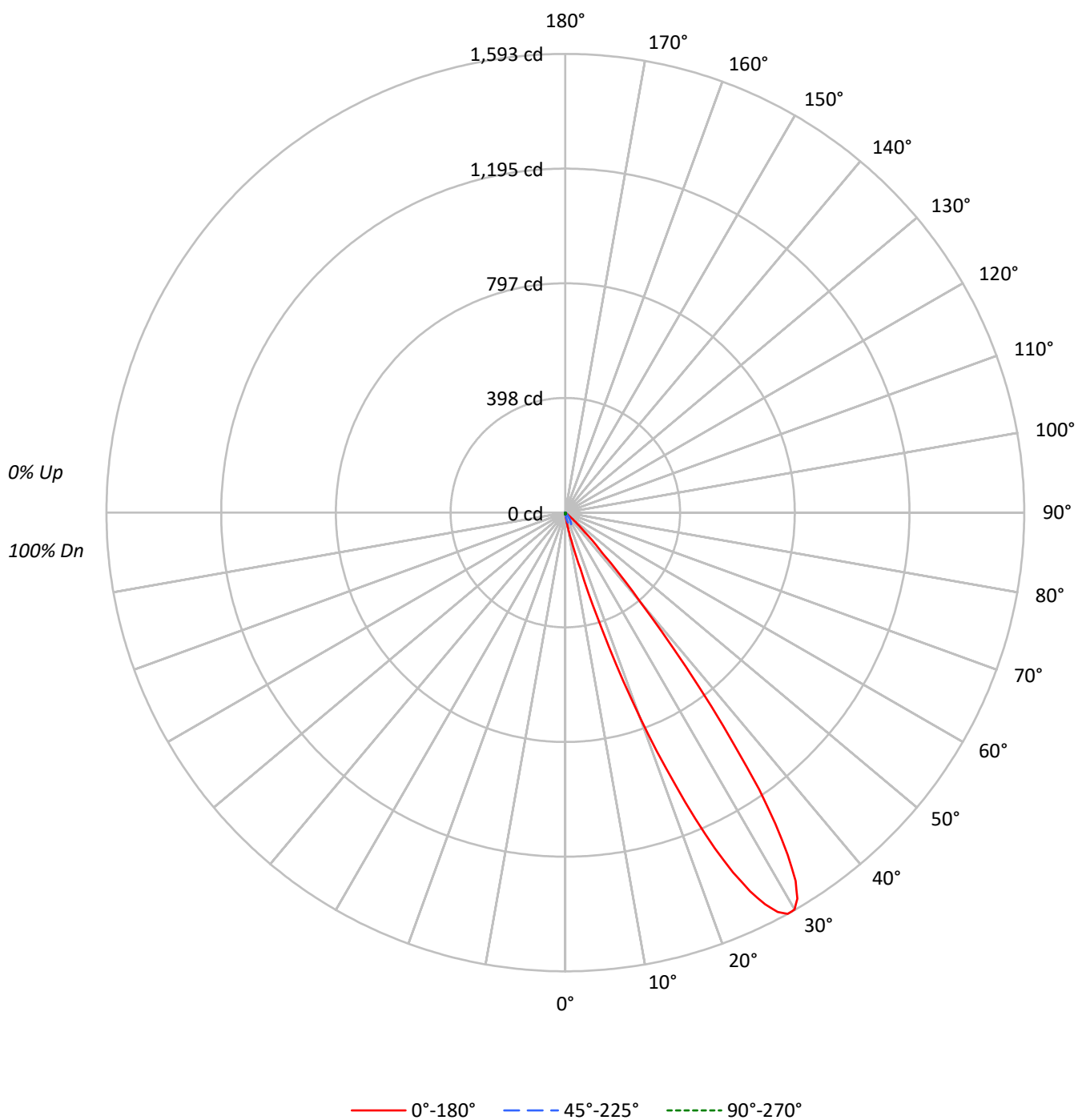
Lumens per Lamp: N/A
Luminaire Lumens: 174.0 lumens
Efficiency: N/A
Efficacy: 24.2 lumens/watt
Spacing Criteria (0/90/45): 2.35 / 0.49 / 1.26
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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°	1272	1272	1272	1272	1272
5°	2729	2003	1189	638	528
10°	12068	3808	935	267	178
15°	45608	8808	658	114	68
20°	175412	12391	397	47	47
25°	333552	11638	194	0	0
30°	402948	9394	76	0	0
35°	314271	6398	54	0	0
40°	114672	3149	57	0	57
45°	29460	930	62	0	93
50°	4981	102	68	68	171
55°	650	0	115	191	306
60°	88	88	219	307	439
65°	104	104	363	415	519
70°	128	128	449	449	513
75°	169	169	593	424	593
80°	0	253	631	379	631
85°	0	503	1258	503	503

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 29460 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.8	0.5
10°-20°	13.3	7.7
20°-30°	74.0	42.5
30°-40°	71.4	41.1
40°-50°	12.4	7.1
50°-60°	0.9	0.5
60°-70°	0.5	0.3
70°-80°	0.4	0.2
80°-90°	0.2	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°	88.1	50.6
0°-40°	159.5	91.7
0°-60°	172.8	99.3
0°-90°	174.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	174.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	6	6	6	6	6	
5°	12	9	5	3	2	2
15°	201	39	3	0	0	90
25°	1379	48	1	0	0	616
35°	1174	24	0	0	0	675
45°	95	3	0	0	0	102
55°	2	0	0	0	1	3
65°	0	0	1	1	1	0
75°	0	0	1	0	1	0
85°	0	0	0	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°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
2.5°	8.5	8.1	8.3	8.3	8.3	8.3	8.3	8.0	8.0	8.1	7.3
5°	12.4	12.4	12.2	12.4	12.4	12.2	11.8	11.7	11.7	11.3	9.1
7.5°	24.7	24.4	24.4	24.0	22.3	21.8	21.5	20.6	19.1	18.8	11.8
10°	54.2	54.3	53.1	51.6	51.5	48.9	48.1	46.5	43.7	40.8	17.1
12.5°	98.3	96.1	93.3	93.4	88.5	86.8	82.9	78.7	74.3	69.7	28.1
15°	200.9	194.6	198.4	189.2	178.9	167.2	155.4	140.5	127.8	114.2	38.8
17.5°	423.1	429.2	418.9	379.8	355.8	327.5	287.7	249.3	216.5	190.1	47.4
20°	751.7	760.6	725.6	691.6	633.2	569.6	503.2	428.1	356.1	293.8	53.1
21°	888.9	883.5	869.1	814.6	747.3	673.5	592.2	509.3	422.1	341.2	53.7
22°	1021.6	1024.2	990.7	933.6	863.6	781.8	682.6	580.2	486.3	379.8	52.8
23°	1153.8	1162.0	1117.6	1064.1	975.9	883.7	768.9	658.4	542.3	424.0	51.1
24°	1276.2	1270.6	1240.7	1173.3	1079.0	971.0	851.9	717.8	588.3	461.7	49.8
25°	1378.6	1377.9	1330.9	1265.4	1157.6	1037.9	906.5	766.4	627.8	487.3	48.1
26°	1462.4	1448.7	1411.6	1331.7	1225.3	1099.0	951.4	801.8	650.0	500.2	46.4
27°	1527.0	1517.2	1467.5	1384.4	1273.2	1133.5	980.2	819.4	660.1	504.4	44.2
28°	1570.5	1559.9	1506.9	1421.3	1299.6	1155.2	995.4	826.8	660.1	500.3	42.1
29°	1593.1	1578.5	1525.7	1434.0	1305.7	1157.7	991.7	819.5	649.8	487.8	39.8
30°	1591.4	1573.3	1517.9	1422.4	1287.5	1136.9	970.9	793.3	626.4	469.2	37.1
31°	1563.9	1543.6	1481.9	1383.5	1250.1	1097.6	931.6	758.1	594.4	445.0	34.4
32°	1508.3	1482.5	1422.3	1324.3	1192.6	1038.9	874.6	703.8	546.5	409.6	31.5
33°	1417.5	1391.6	1327.0	1235.1	1114.7	964.4	798.9	645.4	492.0	367.5	29.1
34°	1304.0	1280.3	1224.6	1132.0	1016.6	870.2	711.9	564.6	435.5	325.7	26.6
35°	1174.0	1136.2	1085.8	1012.5	899.9	752.7	618.0	489.5	377.3	281.8	23.9
36°	998.1	1004.9	951.4	861.7	768.4	653.0	523.7	408.1	315.5	240.2	21.5
37°	842.2	831.6	797.5	728.1	646.9	532.3	438.9	346.0	265.4	203.1	19.0
38°	679.4	681.8	648.4	595.1	514.5	437.7	353.2	284.2	222.1	172.8	16.6
39°	531.8	529.9	521.0	471.6	398.6	348.2	286.2	235.6	185.0	145.7	14.0
40°	400.6	403.7	382.7	352.9	310.4	269.0	228.0	187.9	153.0	122.9	11.0
42.5°	194.8	199.6	185.7	178.1	159.3	143.0	120.7	98.5	83.8	72.4	4.9
45°	95.0	92.2	91.1	87.3	82.9	74.1	65.7	56.4	49.3	42.5	3.0
47.5°	48.6	47.2	47.2	45.7	44.2	41.3	37.1	34.0	30.6	26.4	1.2
50°	14.6	14.4	14.2	14.4	13.9	14.4	14.7	14.9	13.5	13.4	0.3
52.5°	5.8	5.9	5.8	6.3	6.3	6.1	6.3	6.1	5.9	5.2	0.0
55°	1.7	1.7	1.7	1.7	1.7	1.7	1.9	2.0	1.9	2.0	0.0
57.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	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°	5.8	5.8	5.8	5.8	5.8	5.8
2.5°	6.8	5.9	4.9	4.1	3.7	3.6
5°	7.3	5.4	3.7	2.9	2.5	2.4
7.5°	7.8	4.9	2.9	2.0	1.5	1.4
10°	8.1	4.2	2.2	1.2	0.8	0.8
12.5°	8.1	3.4	1.5	0.7	0.5	0.5
15°	8.0	2.9	1.0	0.5	0.3	0.3
17.5°	7.8	2.2	0.7	0.3	0.2	0.3
20°	7.3	1.7	0.3	0.2	0.2	0.2
21°	7.1	1.5	0.3	0.2	0.2	0.2
22°	6.8	1.4	0.2	0.0	0.2	0.2
23°	6.4	1.0	0.2	0.0	0.0	0.0
24°	5.9	0.8	0.2	0.0	0.0	0.0
25°	5.6	0.8	0.2	0.0	0.0	0.0
26°	5.2	0.5	0.0	0.0	0.0	0.0
27°	4.7	0.3	0.0	0.0	0.0	0.0
28°	4.4	0.3	0.0	0.0	0.0	0.0
29°	3.9	0.3	0.0	0.0	0.0	0.0
30°	3.4	0.3	0.0	0.0	0.0	0.0
31°	2.7	0.2	0.0	0.0	0.0	0.0
32°	2.2	0.2	0.0	0.0	0.0	0.0
33°	1.5	0.2	0.0	0.0	0.0	0.0
34°	1.0	0.2	0.0	0.0	0.0	0.0
35°	0.8	0.2	0.0	0.0	0.0	0.0
36°	0.5	0.2	0.0	0.0	0.0	0.2
37°	0.5	0.2	0.0	0.0	0.0	0.2
38°	0.3	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	0.3
45°	0.0	0.2	0.0	0.0	0.2	0.3
47.5°	0.0	0.2	0.0	0.0	0.3	0.3
50°	0.0	0.2	0.2	0.2	0.3	0.5
52.5°	0.0	0.3	0.2	0.3	0.5	0.7
55°	0.2	0.3	0.3	0.5	0.7	0.8
57.5°	0.2	0.5	0.5	0.7	0.8	0.8
60°	0.3	0.5	0.7	0.7	1.0	1.0
62.5°	0.3	0.7	0.7	0.7	1.0	1.0
65°	0.3	0.7	0.7	0.8	1.0	1.0
67.5°	0.3	0.7	0.7	0.7	0.8	1.0
70°	0.3	0.7	0.5	0.7	0.8	0.8
72.5°	0.3	0.7	0.5	0.5	0.7	0.8
75°	0.3	0.7	0.5	0.5	0.7	0.7
77.5°	0.3	0.5	0.5	0.3	0.5	0.5
80°	0.3	0.5	0.3	0.3	0.5	0.5



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.3	0.5	0.3	0.2	0.3	0.3
85°	0.3	0.5	0.3	0.2	0.2	0.2
87.5°	0.3	0.5	0.2	0.0	0.0	0.2
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)