

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: P1343996

Luminaire Tested: P3A13R209730DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1343996
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-60)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A13R209730DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R20 optic, 3000K CCT AND, 97CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

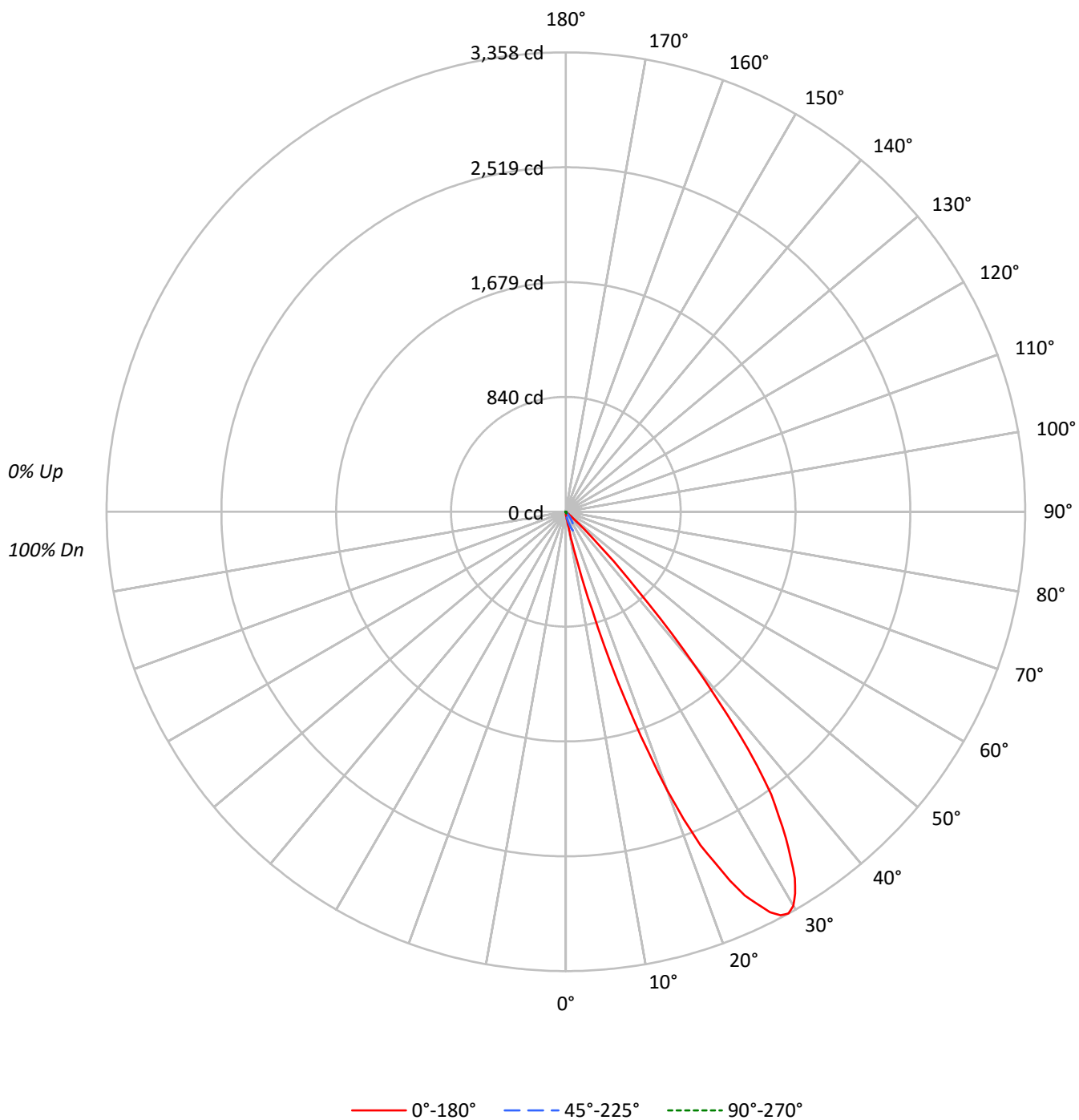
Lumens per Lamp: N/A
Luminaire Lumens: 471.0 lumens
Efficiency: N/A
Efficacy: 32.3 lumens/watt
Spacing Criteria (0/90/45): 2.3 / 0.54 / 1.19
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.6
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	76	71	79	74	71	77	73	70	68		
5	87	77	70	65	85	76	70	65	74	69	64	72	68	64	71	67	63	61		
6	81	71	64	59	80	70	63	58	68	62	58	67	62	58	65	61	57	55		
7	76	65	58	53	74	64	57	53	63	57	52	62	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	43	41		
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	3552	3552	3552	3552	3552
5°	8188	6119	3390	2069	1783
10°	25784	10666	2761	1136	846
15°	167038	19682	2043	386	91
20°	504161	33696	1400	0	0
25°	748737	34018	823	0	0
30°	841978	25852	329	0	0
35°	726463	15446	241	0	0
40°	418327	5267	0	0	0
45°	102026	2109	124	0	124
50°	12247	580	136	136	443
55°	1644	0	344	344	650
60°	175	0	570	570	921
65°	208	208	882	882	1349
70°	256	256	1090	1090	1346
75°	0	339	1440	1101	1440
80°	0	505	1642	1137	1642
85°	0	1006	3271	1006	1006

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°

Vertical Angle: 45°

Luminance: 102708 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.2	0.5
10°-20°	43.6	9.3
20°-30°	190.3	40.4
30°-40°	191.6	40.7
40°-50°	38.4	8.2
50°-60°	1.9	0.4
60°-70°	1.3	0.3
70°-80°	1.1	0.2
80°-90°	0.6	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°	236.1	50.1
0°-40°	427.7	90.8
0°-60°	468.0	99.4
0°-90°	471.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	471.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	16	16	16	16	16	
5°	37	28	15	9	8	6
15°	736	87	9	2	0	288
25°	3095	141	3	0	0	1395
35°	2714	58	1	0	0	1615
45°	329	7	0	0	0	358
55°	4	0	1	1	2	8
65°	0	0	2	2	3	0
75°	0	0	2	1	2	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°	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2
2.5°	24.4	24.4	23.9	23.9	23.5	23.9	23.1	23.5	23.5	23.1	20.9
5°	37.2	38.0	37.6	37.6	37.2	37.6	36.7	35.9	35.0	35.0	27.8
7.5°	61.1	60.7	59.8	60.3	59.0	58.1	57.3	56.8	54.3	53.0	36.3
10°	115.8	118.4	116.2	115.8	108.1	107.7	102.6	95.3	88.9	85.5	47.9
12.5°	318.8	332.4	311.1	300.8	294.8	271.8	261.9	236.7	212.4	194.0	60.7
15°	735.8	769.6	726.4	729.4	693.5	627.7	570.0	520.5	461.9	403.0	86.7
17.5°	1441.7	1414.4	1390.9	1351.1	1278.1	1181.5	1057.2	931.1	822.1	708.1	120.9
20°	2160.5	2136.1	2082.7	1996.0	1902.8	1759.7	1611.8	1422.5	1239.2	1067.4	144.4
21°	2407.9	2399.8	2312.2	2258.8	2115.2	1978.4	1807.9	1605.4	1399.0	1195.6	148.3
22°	2628.8	2580.1	2533.1	2454.0	2311.3	2162.6	1972.9	1759.7	1535.7	1309.7	148.7
23°	2781.8	2759.6	2715.1	2625.8	2483.9	2309.2	2109.2	1886.1	1650.3	1390.5	147.4
24°	2951.0	2922.8	2857.8	2753.6	2610.4	2437.8	2209.6	1988.3	1731.9	1458.4	144.0
25°	3094.6	3050.6	2973.6	2861.3	2704.9	2526.7	2297.2	2054.1	1788.7	1504.1	140.6
26°	3187.7	3163.8	3065.1	2942.9	2775.4	2591.6	2357.5	2104.5	1825.5	1525.1	135.0
27°	3284.7	3240.7	3143.7	3003.1	2821.5	2633.9	2391.6	2128.9	1838.3	1525.9	128.2
28°	3340.3	3292.4	3182.6	3034.7	2851.4	2657.4	2411.3	2136.5	1835.7	1512.7	120.1
29°	3357.8	3297.5	3190.3	3039.9	2858.7	2659.1	2408.3	2125.4	1813.1	1480.2	110.7
30°	3325.3	3263.8	3162.1	3015.5	2835.6	2637.8	2380.5	2088.7	1772.9	1433.6	102.1
31°	3254.4	3202.3	3104.0	2957.0	2784.3	2587.8	2317.7	2028.4	1704.5	1371.2	92.3
32°	3160.8	3109.5	3013.0	2880.1	2704.4	2506.2	2231.8	1934.4	1624.2	1278.1	82.5
33°	3020.2	2990.7	2904.0	2777.1	2601.5	2389.5	2116.5	1822.0	1509.7	1174.7	73.9
34°	2877.9	2840.7	2780.1	2641.2	2452.3	2240.8	1966.0	1666.9	1370.0	1058.9	65.8
35°	2713.8	2691.6	2596.3	2485.2	2295.5	2079.3	1806.2	1516.1	1207.1	929.8	57.7
36°	2554.9	2520.7	2412.2	2294.6	2110.5	1876.7	1607.1	1334.5	1066.6	808.9	49.1
37°	2324.1	2272.0	2194.7	2070.7	1855.4	1656.2	1410.1	1157.2	893.5	678.1	39.7
38°	2052.8	2028.4	1921.2	1796.4	1618.2	1429.3	1185.8	971.3	737.1	566.2	30.3
39°	1732.7	1732.3	1629.8	1539.6	1365.3	1195.2	975.5	788.4	608.5	455.9	23.5
40°	1461.4	1411.0	1347.7	1234.5	1100.7	956.3	764.0	617.0	472.2	367.5	18.4
42.5°	766.2	761.9	724.7	639.7	564.9	479.9	381.6	317.9	248.7	202.5	11.5
45°	329.0	331.2	305.5	292.7	263.6	228.2	192.7	160.7	137.6	111.5	6.8
47.5°	83.3	79.9	79.1	82.0	82.0	79.5	71.4	67.1	62.0	56.8	3.8
50°	35.9	35.0	34.2	34.2	32.0	30.8	28.6	26.1	23.9	21.4	1.7
52.5°	13.2	13.7	14.1	13.7	13.7	13.2	13.2	12.8	11.5	10.3	0.9
55°	4.3	4.3	4.3	4.7	4.7	5.1	5.1	5.1	5.1	4.7	0.0
57.5°	0.9	0.9	1.3	1.3	1.3	1.3	1.3	1.3	1.7	1.7	0.0
60°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.0
62.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
65°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
67.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
70°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
72.5°	0.4	0.0	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
75°	0.0	0.0	0.0	0.4	0.0	0.4	0.4	0.0	0.4	0.4	0.4
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4



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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	0.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
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°	16.2	16.2	16.2	16.2	16.2	16.2
2.5°	18.8	16.7	14.1	12.0	11.5	11.1
5°	20.9	15.4	11.5	9.4	8.5	8.1
7.5°	22.6	14.1	9.4	6.8	6.0	5.6
10°	23.5	12.4	7.7	5.1	3.8	3.8
12.5°	23.9	10.7	5.6	3.4	2.1	2.1
15°	23.5	9.0	4.3	1.7	0.4	0.4
17.5°	21.4	7.3	2.6	0.4	0.0	0.0
20°	18.4	6.0	1.7	0.0	0.0	0.0
21°	17.5	5.1	1.3	0.0	0.0	0.0
22°	16.2	4.7	0.9	0.0	0.0	0.0
23°	15.0	4.3	0.9	0.0	0.0	0.0
24°	13.7	3.8	0.4	0.0	0.0	0.0
25°	12.8	3.4	0.4	0.0	0.0	0.0
26°	12.0	3.0	0.4	0.0	0.0	0.0
27°	10.7	2.6	0.0	0.0	0.0	0.0
28°	9.8	2.1	0.0	0.0	0.0	0.0
29°	8.5	1.7	0.0	0.0	0.0	0.0
30°	7.3	1.3	0.0	0.0	0.0	0.0
31°	6.0	1.3	0.0	0.0	0.0	0.0
32°	5.1	0.9	0.0	0.0	0.0	0.0
33°	4.3	0.9	0.0	0.0	0.0	0.0
34°	3.8	0.9	0.0	0.0	0.0	0.0
35°	3.4	0.9	0.0	0.0	0.0	0.0
36°	2.6	0.4	0.0	0.0	0.0	0.0
37°	2.1	0.4	0.0	0.0	0.0	0.0
38°	1.7	0.4	0.0	0.0	0.0	0.0
39°	1.3	0.0	0.0	0.0	0.0	0.0
40°	1.3	0.0	0.0	0.0	0.0	0.0
42.5°	0.4	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.4	0.0	0.0	0.4	0.4
47.5°	0.0	0.4	0.0	0.0	0.4	0.9
50°	0.0	0.4	0.4	0.4	0.9	1.3
52.5°	0.0	0.9	0.4	0.4	1.3	1.3
55°	0.4	0.9	0.4	0.9	1.7	1.7
57.5°	0.4	0.9	0.9	1.3	1.7	2.1
60°	0.9	1.3	1.3	1.3	2.1	2.1
62.5°	0.9	1.3	1.7	1.7	2.1	2.6
65°	0.9	1.7	1.7	1.7	2.1	2.6
67.5°	1.3	1.7	1.7	1.7	2.1	2.6
70°	1.3	1.7	1.7	1.7	2.1	2.1
72.5°	1.3	1.7	1.3	1.7	1.7	2.1
75°	1.3	1.7	1.3	1.3	1.7	1.7
77.5°	0.9	1.3	1.3	0.9	1.3	1.3
80°	0.9	1.3	0.9	0.9	1.3	1.3



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.9	1.3	0.9	0.4	0.9	0.9
85°	0.9	1.3	0.9	0.4	0.4	0.4
87.5°	0.9	1.3	0.9	0.4	0.0	0.4
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)