

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: P1343923

Luminaire Tested: P3A13R209030DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1343923
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: P3A13R209030DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R20 optic, 3000K CCT AND, 90CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

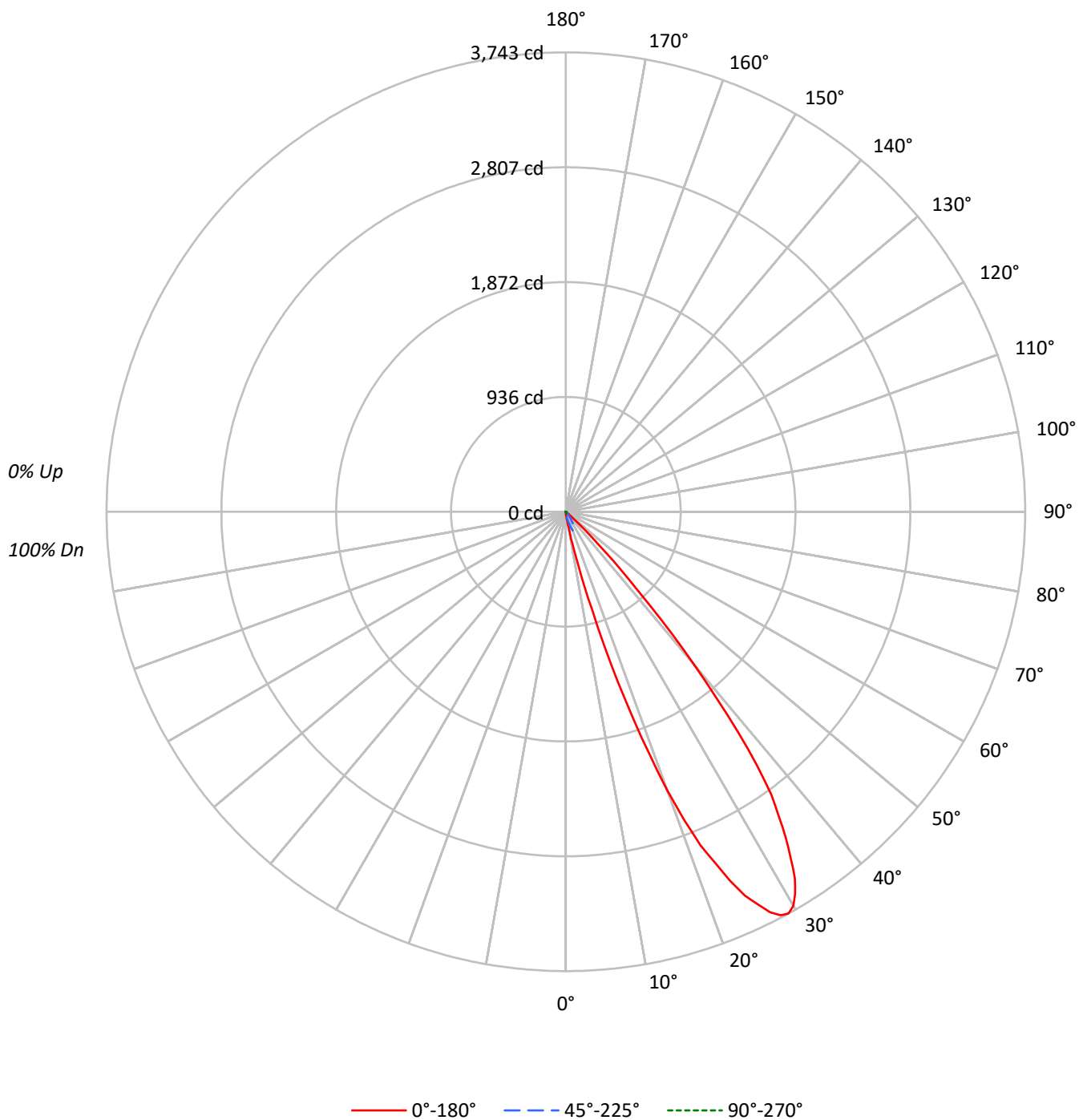
Lumens per Lamp: N/A
Luminaire Lumens: 525.0 lumens
Efficiency: N/A
Efficacy: 36.0 lumens/watt
Spacing Criteria (0/90/45): 2.3 / 0.53 / 1.19
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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			0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
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°	3969	3969	3969	3969	3969
5°	9113	6824	3764	2311	1981
10°	28746	11868	3073	1269	957
15°	186199	21952	2270	431	114
20°	561962	37570	1563	0	0
25°	834580	37913	919	0	0
30°	938524	28815	354	0	0
35°	809769	17213	268	0	0
40°	466274	5868	0	0	0
45°	113748	2357	155	0	155
50°	13646	648	171	171	478
55°	1835	0	382	382	726
60°	219	0	614	614	1053
65°	259	259	986	986	1505
70°	321	321	1218	1218	1539
75°	0	424	1610	1186	1610
80°	0	631	1768	1263	1768
85°	0	1258	3522	1258	1258

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°

Vertical Angle: 45°

Luminance: 114461 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.4	0.5
10°-20°	48.7	9.3
20°-30°	212.1	40.4
30°-40°	213.6	40.7
40°-50°	42.8	8.2
50°-60°	2.2	0.4
60°-70°	1.4	0.3
70°-80°	1.3	0.2
80°-90°	0.7	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°	263.1	50.1
0°-40°	476.7	90.8
0°-60°	521.7	99.4
0°-90°	525.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	525.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	18	18	18	18	18	
5°	41	31	17	10	9	6
15°	820	97	10	2	0	321
25°	3449	157	4	0	0	1555
35°	3025	64	1	0	0	1800
45°	367	8	0	0	0	399
55°	5	0	1	1	2	9
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°	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1
2.5°	27.1	27.1	26.7	26.7	26.2	26.7	25.7	26.2	26.2	25.7	23.3
5°	41.4	42.4	41.9	41.9	41.4	41.9	41.0	40.0	39.1	39.1	31.0
7.5°	68.1	67.6	66.7	67.2	65.7	64.8	63.8	63.3	60.5	59.1	40.5
10°	129.1	131.9	129.6	129.1	120.5	120.0	114.3	106.2	99.1	95.3	53.3
12.5°	355.3	370.6	346.7	335.3	328.6	302.9	292.0	263.9	236.7	216.2	67.6
15°	820.2	857.8	809.7	813.0	773.0	699.7	635.4	580.1	514.9	449.2	96.7
17.5°	1607.0	1576.6	1550.4	1506.1	1424.6	1317.0	1178.4	1037.9	916.4	789.2	134.8
20°	2408.2	2381.0	2321.5	2224.8	2121.0	1961.4	1796.6	1585.6	1381.3	1189.8	161.0
21°	2683.9	2674.9	2577.3	2517.7	2357.7	2205.3	2015.2	1789.5	1559.4	1332.7	165.3
22°	2930.2	2875.9	2823.5	2735.4	2576.3	2410.6	2199.1	1961.4	1711.8	1459.9	165.8
23°	3100.7	3075.9	3026.4	2926.9	2768.7	2573.9	2351.0	2102.4	1839.5	1549.9	164.3
24°	3289.3	3257.9	3185.5	3069.3	2909.7	2717.3	2462.9	2216.2	1930.4	1625.6	160.5
25°	3449.4	3400.3	3314.6	3189.3	3015.0	2816.4	2560.6	2289.6	1993.8	1676.6	156.7
26°	3553.2	3526.5	3416.5	3280.3	3093.6	2888.8	2627.7	2345.8	2034.8	1699.9	150.5
27°	3661.3	3612.3	3504.1	3347.4	3145.0	2935.9	2665.8	2372.9	2049.0	1700.9	142.9
28°	3723.2	3669.9	3547.5	3382.7	3178.3	2962.1	2687.8	2381.5	2046.2	1686.1	133.8
29°	3742.8	3675.6	3556.1	3388.4	3186.4	2964.0	2684.4	2369.1	2020.9	1649.9	123.4
30°	3706.6	3638.0	3524.6	3361.2	3160.7	2940.2	2653.5	2328.2	1976.2	1598.0	113.8
31°	3627.5	3569.4	3459.8	3296.0	3103.6	2884.5	2583.4	2261.0	1900.0	1528.4	102.9
32°	3523.2	3466.0	3358.4	3210.3	3014.5	2793.5	2487.7	2156.2	1810.4	1424.6	91.9
33°	3366.5	3333.6	3236.9	3095.5	2899.7	2663.5	2359.1	2030.9	1682.8	1309.3	82.4
34°	3207.9	3166.4	3098.8	2944.0	2733.5	2497.7	2191.5	1858.0	1527.0	1180.3	73.4
35°	3025.0	3000.2	2894.0	2770.2	2558.7	2317.7	2013.3	1689.9	1345.5	1036.4	64.3
36°	2847.8	2809.7	2688.7	2557.7	2352.4	2091.9	1791.4	1487.5	1188.8	901.6	54.8
37°	2590.6	2532.5	2446.3	2308.1	2068.1	1846.1	1571.8	1289.8	995.9	755.9	44.3
38°	2288.1	2261.0	2141.4	2002.4	1803.7	1593.2	1321.7	1082.6	821.6	631.1	33.8
39°	1931.4	1930.9	1816.6	1716.1	1521.8	1332.2	1087.4	878.8	678.3	508.2	26.2
40°	1628.9	1572.7	1502.2	1376.0	1226.9	1066.0	851.6	687.8	526.3	409.6	20.5
42.5°	854.0	849.2	807.8	713.0	629.7	534.9	425.3	354.4	277.2	225.8	12.9
45°	366.8	369.1	340.6	326.3	293.9	254.3	214.8	179.1	153.4	124.3	7.6
47.5°	92.9	89.1	88.1	91.4	91.4	88.6	79.5	74.8	69.1	63.3	4.3
50°	40.0	39.1	38.1	38.1	35.7	34.3	31.9	29.1	26.7	23.8	1.9
52.5°	14.8	15.2	15.7	15.2	15.2	14.8	14.8	14.3	12.9	11.4	1.0
55°	4.8	4.8	4.8	5.2	5.2	5.7	5.7	5.7	5.7	5.2	0.0
57.5°	1.0	1.0	1.4	1.4	1.4	1.4	1.4	1.4	1.9	1.9	0.0
60°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.0	0.0	0.0	0.0
62.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
65°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
67.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
70°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
72.5°	0.5	0.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
75°	0.0	0.0	0.0	0.5	0.0	0.5	0.5	0.0	0.5	0.5	0.5
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5



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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	0.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
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°	18.1	18.1	18.1	18.1	18.1	18.1
2.5°	21.0	18.6	15.7	13.3	12.9	12.4
5°	23.3	17.1	12.9	10.5	9.5	9.0
7.5°	25.2	15.7	10.5	7.6	6.7	6.2
10°	26.2	13.8	8.6	5.7	4.3	4.3
12.5°	26.7	11.9	6.2	3.8	2.4	2.4
15°	26.2	10.0	4.8	1.9	0.5	0.5
17.5°	23.8	8.1	2.9	0.5	0.0	0.0
20°	20.5	6.7	1.9	0.0	0.0	0.0
21°	19.5	5.7	1.4	0.0	0.0	0.0
22°	18.1	5.2	1.0	0.0	0.0	0.0
23°	16.7	4.8	1.0	0.0	0.0	0.0
24°	15.2	4.3	0.5	0.0	0.0	0.0
25°	14.3	3.8	0.5	0.0	0.0	0.0
26°	13.3	3.3	0.5	0.0	0.0	0.0
27°	11.9	2.9	0.0	0.0	0.0	0.0
28°	11.0	2.4	0.0	0.0	0.0	0.0
29°	9.5	1.9	0.0	0.0	0.0	0.0
30°	8.1	1.4	0.0	0.0	0.0	0.0
31°	6.7	1.4	0.0	0.0	0.0	0.0
32°	5.7	1.0	0.0	0.0	0.0	0.0
33°	4.8	1.0	0.0	0.0	0.0	0.0
34°	4.3	1.0	0.0	0.0	0.0	0.0
35°	3.8	1.0	0.0	0.0	0.0	0.0
36°	2.9	0.5	0.0	0.0	0.0	0.0
37°	2.4	0.5	0.0	0.0	0.0	0.0
38°	1.9	0.5	0.0	0.0	0.0	0.0
39°	1.4	0.0	0.0	0.0	0.0	0.0
40°	1.4	0.0	0.0	0.0	0.0	0.0
42.5°	0.5	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.5	0.0	0.0	0.5	0.5
47.5°	0.0	0.5	0.0	0.0	0.5	1.0
50°	0.0	0.5	0.5	0.5	1.0	1.4
52.5°	0.0	1.0	0.5	0.5	1.4	1.4
55°	0.5	1.0	0.5	1.0	1.9	1.9
57.5°	0.5	1.0	1.0	1.4	1.9	2.4
60°	1.0	1.4	1.4	1.4	2.4	2.4
62.5°	1.0	1.4	1.9	1.9	2.4	2.9
65°	1.0	1.9	1.9	1.9	2.4	2.9
67.5°	1.4	1.9	1.9	1.9	2.4	2.9
70°	1.4	1.9	1.9	1.9	2.4	2.4
72.5°	1.4	1.9	1.4	1.9	1.9	2.4
75°	1.4	1.9	1.4	1.4	1.9	1.9
77.5°	1.0	1.4	1.4	1.0	1.4	1.4
80°	1.0	1.4	1.0	1.0	1.4	1.4



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	1.0	1.4	1.0	0.5	1.0	1.0
85°	1.0	1.4	1.0	0.5	0.5	0.5
87.5°	1.0	1.4	1.0	0.5	0.0	0.5
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)