

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: P1343592

Luminaire Tested: P3A13R159840DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1343592
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: P3A13R159840DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R15 optic, 4000K CCT AND, 98CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

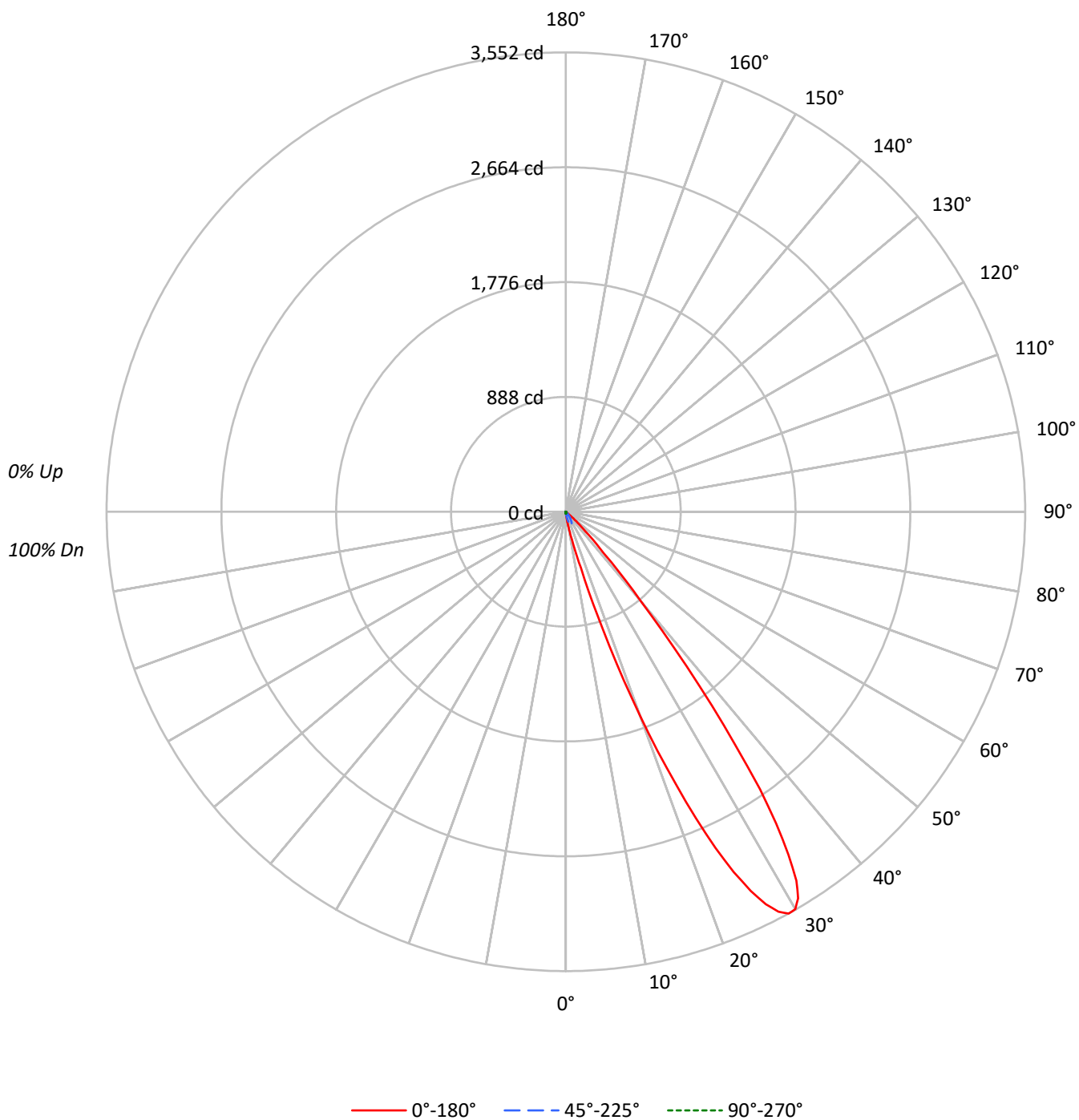
Lumens per Lamp: N/A
Luminaire Lumens: 388.1 lumens
Efficiency: N/A
Efficacy: 26.8 lumens/watt
Spacing Criteria (0/90/45): 2.35 / 0.49 / 1.26
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.5
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	47	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°	2807	2807	2807	2807	2807
5°	6075	4490	2663	1409	1167
10°	26898	8483	2093	579	423
15°	101703	19614	1453	250	182
20°	391147	27652	887	93	93
25°	743777	25937	460	0	0
30°	898518	20940	203	0	0
35°	700765	14241	107	0	0
40°	255736	7013	115	0	115
45°	65650	2109	124	0	248
50°	11087	273	136	136	375
55°	1453	0	306	421	726
60°	175	175	482	658	1009
65°	208	208	778	986	1193
70°	256	256	962	962	1218
75°	339	339	1271	932	1271
80°	0	505	1389	1010	1389
85°	0	1006	2768	1006	1006

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 65650 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.8	0.5
10°-20°	29.7	7.7
20°-30°	164.9	42.5
30°-40°	159.3	41.1
40°-50°	27.7	7.1
50°-60°	2.0	0.5
60°-70°	1.2	0.3
70°-80°	1.0	0.2
80°-90°	0.5	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°	196.4	50.6
0°-40°	355.7	91.7
0°-60°	385.4	99.3
0°-90°	388.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	388.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	13	13	13	13	13	
5°	28	20	12	6	5	5
15°	448	86	6	1	1	200
25°	3074	107	2	0	0	1375
35°	2618	53	0	0	0	1506
45°	212	7	0	0	1	227
55°	4	0	1	1	2	7
65°	0	0	2	2	2	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°	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8
2.5°	18.9	18.1	18.5	18.5	18.5	18.5	18.5	17.7	17.7	18.1	16.2
5°	27.6	27.6	27.2	27.6	27.6	27.2	26.4	26.0	26.0	25.3	20.4
7.5°	55.1	54.3	54.3	53.6	49.8	48.7	47.9	46.0	42.6	41.9	26.4
10°	120.8	121.2	118.5	115.1	114.7	109.1	107.2	103.8	97.4	91.0	38.1
12.5°	219.3	214.4	208.0	208.3	197.4	193.6	184.9	175.5	165.7	155.5	62.7
15°	448.0	434.0	442.3	422.0	398.9	372.9	346.5	313.3	285.0	254.8	86.4
17.5°	943.6	957.2	934.1	846.9	793.4	730.3	641.6	555.9	482.7	423.8	105.7
20°	1676.2	1696.2	1618.0	1542.2	1412.0	1270.0	1122.1	954.5	794.1	655.2	118.5
21°	1982.2	1970.2	1938.1	1816.6	1666.3	1501.8	1320.6	1135.7	941.3	760.9	119.6
22°	2278.1	2283.8	2209.1	2081.9	1925.6	1743.3	1522.2	1293.8	1084.3	846.9	117.8
23°	2572.9	2591.0	2492.1	2372.9	2176.2	1970.5	1714.6	1468.2	1209.3	945.5	114.0
24°	2845.8	2833.3	2766.5	2616.3	2406.1	2165.3	1899.6	1600.7	1311.9	1029.6	111.0
25°	3074.1	3072.6	2967.7	2821.6	2581.2	2314.4	2021.5	1709.0	1399.9	1086.6	107.2
26°	3261.0	3230.4	3147.7	2969.6	2732.2	2450.6	2121.5	1787.9	1449.3	1115.3	103.4
27°	3405.1	3383.3	3272.3	3087.0	2839.0	2527.6	2185.7	1827.1	1472.0	1124.7	98.5
28°	3502.1	3478.4	3360.2	3169.2	2897.9	2575.9	2219.6	1843.7	1472.0	1115.7	94.0
29°	3552.3	3519.9	3402.1	3197.6	2911.5	2581.6	2211.3	1827.5	1448.9	1087.7	88.7
30°	3548.6	3508.2	3384.8	3171.9	2871.1	2535.2	2164.9	1769.0	1396.9	1046.2	82.7
31°	3487.4	3442.1	3304.4	3085.1	2787.7	2447.6	2077.4	1690.5	1325.5	992.3	76.6
32°	3363.2	3305.9	3171.5	2953.0	2659.3	2316.6	1950.2	1569.3	1218.7	913.4	70.2
33°	3160.9	3103.2	2959.0	2754.1	2485.7	2150.6	1781.5	1439.1	1097.2	819.4	64.9
34°	2907.7	2854.9	2730.7	2524.2	2266.8	1940.3	1587.5	1259.1	971.1	726.2	59.3
35°	2617.8	2533.7	2421.2	2257.8	2006.8	1678.4	1378.0	1091.5	841.3	628.4	53.2
36°	2225.7	2240.8	2121.5	1921.5	1713.5	1456.1	1167.8	910.0	703.5	535.6	47.9
37°	1878.1	1854.3	1778.4	1623.7	1442.5	1187.0	978.7	771.5	591.8	452.9	42.3
38°	1515.0	1520.3	1445.9	1327.0	1147.4	976.0	787.7	633.7	495.2	385.4	37.0
39°	1185.9	1181.7	1161.7	1051.5	888.8	776.4	638.2	525.4	412.5	325.0	31.3
40°	893.4	900.2	853.4	786.9	692.2	599.7	508.4	418.9	341.2	274.0	24.5
42.5°	434.4	445.0	414.0	397.1	355.2	318.9	269.1	219.7	186.8	161.5	10.9
45°	211.7	205.7	203.1	194.8	184.9	165.3	146.4	125.7	109.8	94.7	6.8
47.5°	108.3	105.3	105.3	101.9	98.5	92.1	82.7	75.9	68.3	58.9	2.6
50°	32.5	32.1	31.7	32.1	30.9	32.1	32.8	33.2	30.2	29.8	0.8
52.5°	12.8	13.2	12.8	14.0	14.0	13.6	14.0	13.6	13.2	11.7	0.0
55°	3.8	3.8	3.8	3.8	3.8	3.8	4.2	4.5	4.2	4.5	0.0
57.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.0
60°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.0	0.4
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	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
75°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	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°	12.8	12.8	12.8	12.8	12.8	12.8
2.5°	15.1	13.2	10.9	9.1	8.3	7.9
5°	16.2	12.1	8.3	6.4	5.7	5.3
7.5°	17.4	10.9	6.4	4.5	3.4	3.0
10°	18.1	9.4	4.9	2.6	1.9	1.9
12.5°	18.1	7.5	3.4	1.5	1.1	1.1
15°	17.7	6.4	2.3	1.1	0.8	0.8
17.5°	17.4	4.9	1.5	0.8	0.4	0.8
20°	16.2	3.8	0.8	0.4	0.4	0.4
21°	15.9	3.4	0.8	0.4	0.4	0.4
22°	15.1	3.0	0.4	0.0	0.4	0.4
23°	14.3	2.3	0.4	0.0	0.0	0.0
24°	13.2	1.9	0.4	0.0	0.0	0.0
25°	12.5	1.9	0.4	0.0	0.0	0.0
26°	11.7	1.1	0.0	0.0	0.0	0.0
27°	10.6	0.8	0.0	0.0	0.0	0.0
28°	9.8	0.8	0.0	0.0	0.0	0.0
29°	8.7	0.8	0.0	0.0	0.0	0.0
30°	7.5	0.8	0.0	0.0	0.0	0.0
31°	6.0	0.4	0.0	0.0	0.0	0.0
32°	4.9	0.4	0.0	0.0	0.0	0.0
33°	3.4	0.4	0.0	0.0	0.0	0.0
34°	2.3	0.4	0.0	0.0	0.0	0.0
35°	1.9	0.4	0.0	0.0	0.0	0.0
36°	1.1	0.4	0.0	0.0	0.0	0.4
37°	1.1	0.4	0.0	0.0	0.0	0.4
38°	0.8	0.4	0.0	0.0	0.0	0.4
39°	0.4	0.4	0.0	0.0	0.0	0.4
40°	0.4	0.4	0.0	0.0	0.0	0.4
42.5°	0.0	0.4	0.0	0.0	0.4	0.8
45°	0.0	0.4	0.0	0.0	0.4	0.8
47.5°	0.0	0.4	0.0	0.0	0.8	0.8
50°	0.0	0.4	0.4	0.4	0.8	1.1
52.5°	0.0	0.8	0.4	0.8	1.1	1.5
55°	0.4	0.8	0.8	1.1	1.5	1.9
57.5°	0.4	1.1	1.1	1.5	1.9	1.9
60°	0.8	1.1	1.5	1.5	2.3	2.3
62.5°	0.8	1.5	1.5	1.5	2.3	2.3
65°	0.8	1.5	1.5	1.9	2.3	2.3
67.5°	0.8	1.5	1.5	1.5	1.9	2.3
70°	0.8	1.5	1.1	1.5	1.9	1.9
72.5°	0.8	1.5	1.1	1.1	1.5	1.9
75°	0.8	1.5	1.1	1.1	1.5	1.5
77.5°	0.8	1.1	1.1	0.8	1.1	1.1
80°	0.8	1.1	0.8	0.8	1.1	1.1



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.8	1.1	0.8	0.4	0.8	0.8
85°	0.8	1.1	0.8	0.4	0.4	0.4
87.5°	0.8	1.1	0.4	0.0	0.0	0.4
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)