

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: P1343560

Luminaire Tested: P3A13R159830DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1343560
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: P3A13R159830DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R15 optic, 3000K CCT AND, 98CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

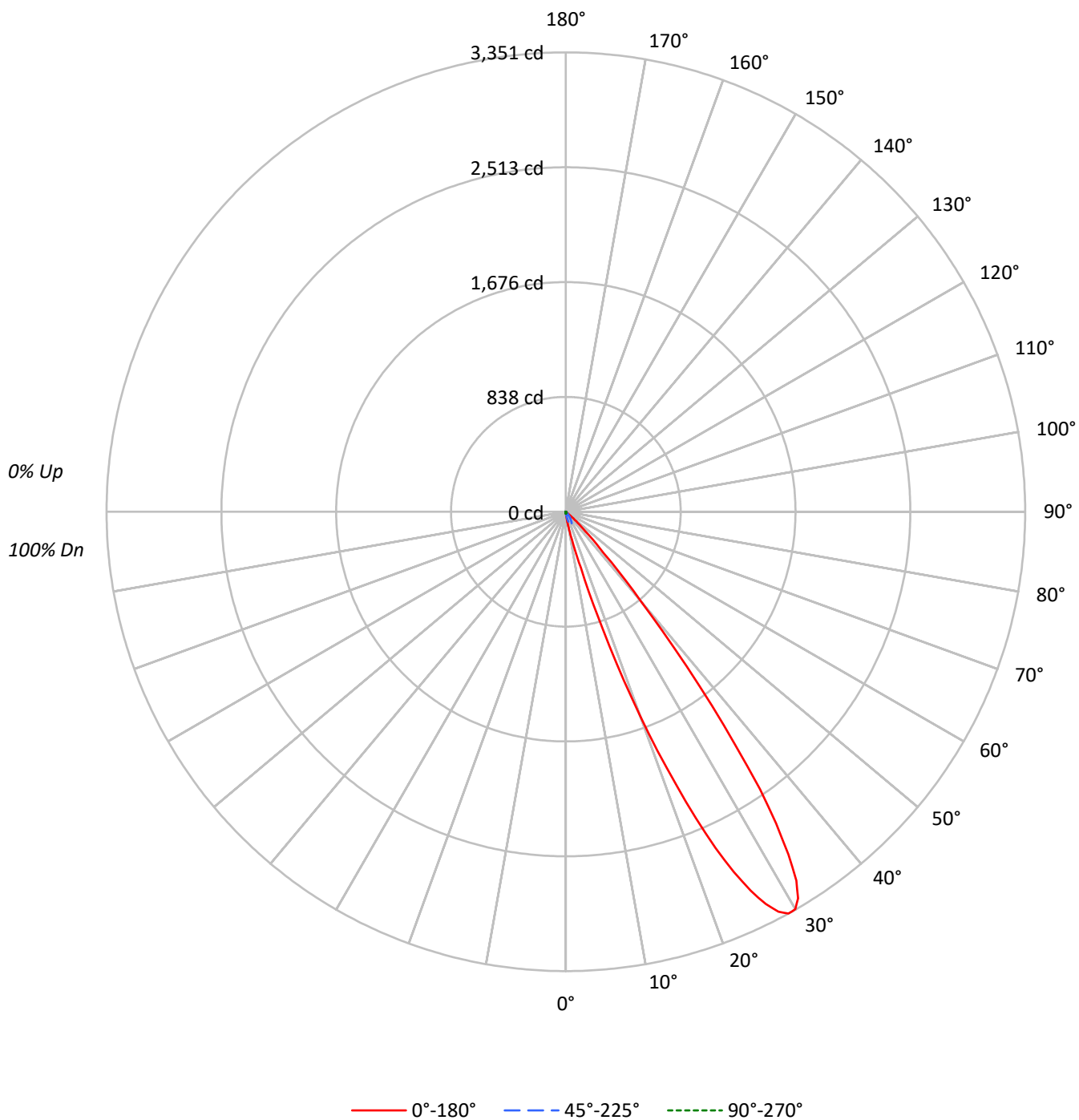
Lumens per Lamp: N/A
Luminaire Lumens: 366.1 lumens
Efficiency: N/A
Efficacy: 25.2 lumens/watt
Spacing Criteria (0/90/45): 2.35 / 0.49 / 1.26
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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			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	98	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°	2653	2653	2653	2653	2653
5°	5723	4226	2509	1343	1101
10°	25361	8016	1982	557	401
15°	95937	18502	1385	250	159
20°	368955	26089	840	93	93
25°	701605	24461	436	0	0
30°	847573	19750	177	0	0
35°	661039	13438	107	0	0
40°	241223	6612	115	0	115
45°	61929	1985	124	0	217
50°	10439	239	136	136	375
55°	1376	0	268	421	688
60°	175	175	482	614	921
65°	208	208	726	934	1090
70°	256	256	898	898	1154
75°	339	339	1186	932	1186
80°	0	505	1389	884	1389
85°	0	1006	2768	1006	1006

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 61929 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.7	0.5
10°-20°	28.0	7.7
20°-30°	155.6	42.5
30°-40°	150.3	41.1
40°-50°	26.1	7.1
50°-60°	1.9	0.5
60°-70°	1.1	0.3
70°-80°	0.9	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°	185.3	50.6
0°-40°	335.5	91.7
0°-60°	363.6	99.3
0°-90°	366.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	366.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	12	12	12	12	12	
5°	26	19	11	6	5	5
15°	423	82	6	1	1	188
25°	2900	101	2	0	0	1297
35°	2469	50	0	0	0	1420
45°	200	6	0	0	1	215
55°	4	0	1	1	2	7
65°	0	0	1	2	2	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°	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1
2.5°	17.8	17.1	17.4	17.4	17.4	17.4	17.4	16.7	16.7	17.1	15.3
5°	26.0	26.0	25.6	26.0	26.0	25.6	24.9	24.6	24.6	23.9	19.2
7.5°	52.0	51.3	51.3	50.6	47.0	45.9	45.2	43.4	40.2	39.5	24.9
10°	113.9	114.3	111.8	108.6	108.2	102.9	101.1	97.9	91.9	85.8	36.0
12.5°	206.9	202.2	196.2	196.5	186.2	182.6	174.5	165.6	156.3	146.7	59.1
15°	422.6	409.4	417.3	398.0	376.3	351.8	326.8	295.5	268.8	240.3	81.5
17.5°	890.1	902.9	881.2	798.9	748.4	688.9	605.2	524.4	455.4	399.8	99.7
20°	1581.1	1600.0	1526.3	1454.7	1331.9	1198.0	1058.5	900.4	749.1	618.1	111.8
21°	1869.8	1858.5	1828.2	1713.6	1571.9	1416.6	1245.7	1071.3	887.9	717.7	112.9
22°	2149.0	2154.3	2083.8	1963.8	1816.4	1644.5	1435.9	1220.5	1022.9	798.9	111.1
23°	2427.0	2444.1	2350.8	2238.3	2052.8	1858.8	1617.4	1384.9	1140.7	891.8	107.5
24°	2684.4	2672.7	2609.7	2468.0	2269.7	2042.5	1791.9	1509.9	1237.5	971.2	104.7
25°	2899.8	2898.4	2799.4	2661.7	2434.9	2183.2	1906.9	1612.1	1320.5	1025.0	101.1
26°	3076.1	3047.2	2969.3	2801.2	2577.3	2311.7	2001.2	1686.5	1367.1	1052.1	97.6
27°	3212.1	3191.4	3086.7	2911.9	2678.0	2384.3	2061.7	1723.5	1388.5	1061.0	92.9
28°	3303.6	3281.1	3169.7	2989.6	2733.6	2429.9	2093.8	1739.2	1388.5	1052.4	88.7
29°	3350.9	3320.3	3209.2	3016.3	2746.4	2435.2	2086.0	1723.9	1366.8	1026.1	83.7
30°	3347.4	3309.3	3192.8	2992.0	2708.3	2391.4	2042.2	1668.7	1317.7	986.9	78.0
31°	3289.7	3247.0	3117.0	2910.2	2629.6	2308.8	1959.6	1594.6	1250.4	936.0	72.3
32°	3172.5	3118.4	2991.7	2785.5	2508.6	2185.3	1839.6	1480.4	1149.6	861.6	66.2
33°	2981.7	2927.2	2791.2	2597.9	2344.8	2028.6	1680.4	1357.5	1035.0	772.9	61.2
34°	2742.8	2693.0	2575.8	2381.1	2138.3	1830.3	1497.4	1187.7	916.1	685.0	55.9
35°	2469.4	2390.0	2283.9	2129.7	1893.0	1583.2	1299.9	1029.6	793.6	592.8	50.2
36°	2099.5	2113.7	2001.2	1812.5	1616.4	1373.5	1101.5	858.4	663.6	505.2	45.2
37°	1771.6	1749.2	1677.6	1531.6	1360.7	1119.7	923.2	727.7	558.2	427.2	39.9
38°	1429.1	1434.1	1363.9	1251.8	1082.3	920.7	743.0	597.8	467.1	363.5	34.9
39°	1118.6	1114.7	1095.8	991.9	838.4	732.3	602.0	495.6	389.1	306.5	29.6
40°	842.7	849.1	805.0	742.3	653.0	565.7	479.6	395.2	321.8	258.5	23.1
42.5°	409.8	419.8	390.6	374.5	335.0	300.8	253.8	207.2	176.2	152.4	10.3
45°	199.7	194.0	191.5	183.7	174.5	155.9	138.1	118.6	103.6	89.4	6.4
47.5°	102.2	99.3	99.3	96.1	92.9	86.9	78.0	71.6	64.4	55.5	2.5
50°	30.6	30.3	29.9	30.3	29.2	30.3	31.0	31.3	28.5	28.1	0.7
52.5°	12.1	12.5	12.1	13.2	13.2	12.8	13.2	12.8	12.5	11.0	0.0
55°	3.6	3.6	3.6	3.6	3.6	3.6	3.9	4.3	3.9	4.3	0.0
57.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	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°	12.1	12.1	12.1	12.1	12.1	12.1
2.5°	14.2	12.5	10.3	8.5	7.8	7.5
5°	15.3	11.4	7.8	6.1	5.3	5.0
7.5°	16.4	10.3	6.1	4.3	3.2	2.8
10°	17.1	8.9	4.6	2.5	1.8	1.8
12.5°	17.1	7.1	3.2	1.4	1.1	1.1
15°	16.7	6.1	2.1	1.1	0.7	0.7
17.5°	16.4	4.6	1.4	0.7	0.4	0.7
20°	15.3	3.6	0.7	0.4	0.4	0.4
21°	15.0	3.2	0.7	0.4	0.4	0.4
22°	14.2	2.8	0.4	0.0	0.4	0.4
23°	13.5	2.1	0.4	0.0	0.0	0.0
24°	12.5	1.8	0.4	0.0	0.0	0.0
25°	11.7	1.8	0.4	0.0	0.0	0.0
26°	11.0	1.1	0.0	0.0	0.0	0.0
27°	10.0	0.7	0.0	0.0	0.0	0.0
28°	9.3	0.7	0.0	0.0	0.0	0.0
29°	8.2	0.7	0.0	0.0	0.0	0.0
30°	7.1	0.7	0.0	0.0	0.0	0.0
31°	5.7	0.4	0.0	0.0	0.0	0.0
32°	4.6	0.4	0.0	0.0	0.0	0.0
33°	3.2	0.4	0.0	0.0	0.0	0.0
34°	2.1	0.4	0.0	0.0	0.0	0.0
35°	1.8	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°	0.7	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	0.7
45°	0.0	0.4	0.0	0.0	0.4	0.7
47.5°	0.0	0.4	0.0	0.0	0.7	0.7
50°	0.0	0.4	0.4	0.4	0.7	1.1
52.5°	0.0	0.7	0.4	0.7	1.1	1.4
55°	0.4	0.7	0.7	1.1	1.4	1.8
57.5°	0.4	1.1	1.1	1.4	1.8	1.8
60°	0.7	1.1	1.4	1.4	2.1	2.1
62.5°	0.7	1.4	1.4	1.4	2.1	2.1
65°	0.7	1.4	1.4	1.8	2.1	2.1
67.5°	0.7	1.4	1.4	1.4	1.8	2.1
70°	0.7	1.4	1.1	1.4	1.8	1.8
72.5°	0.7	1.4	1.1	1.1	1.4	1.8
75°	0.7	1.4	1.1	1.1	1.4	1.4
77.5°	0.7	1.1	1.1	0.7	1.1	1.1
80°	0.7	1.1	0.7	0.7	1.1	1.1



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.7	1.1	0.7	0.4	0.7	0.7
85°	0.7	1.1	0.7	0.4	0.4	0.4
87.5°	0.7	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)