

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: P1343879

Luminaire Tested: P3A13R209024DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1343879
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: P3A13R209024DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R20 optic, 2400K CCT AND, 90CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

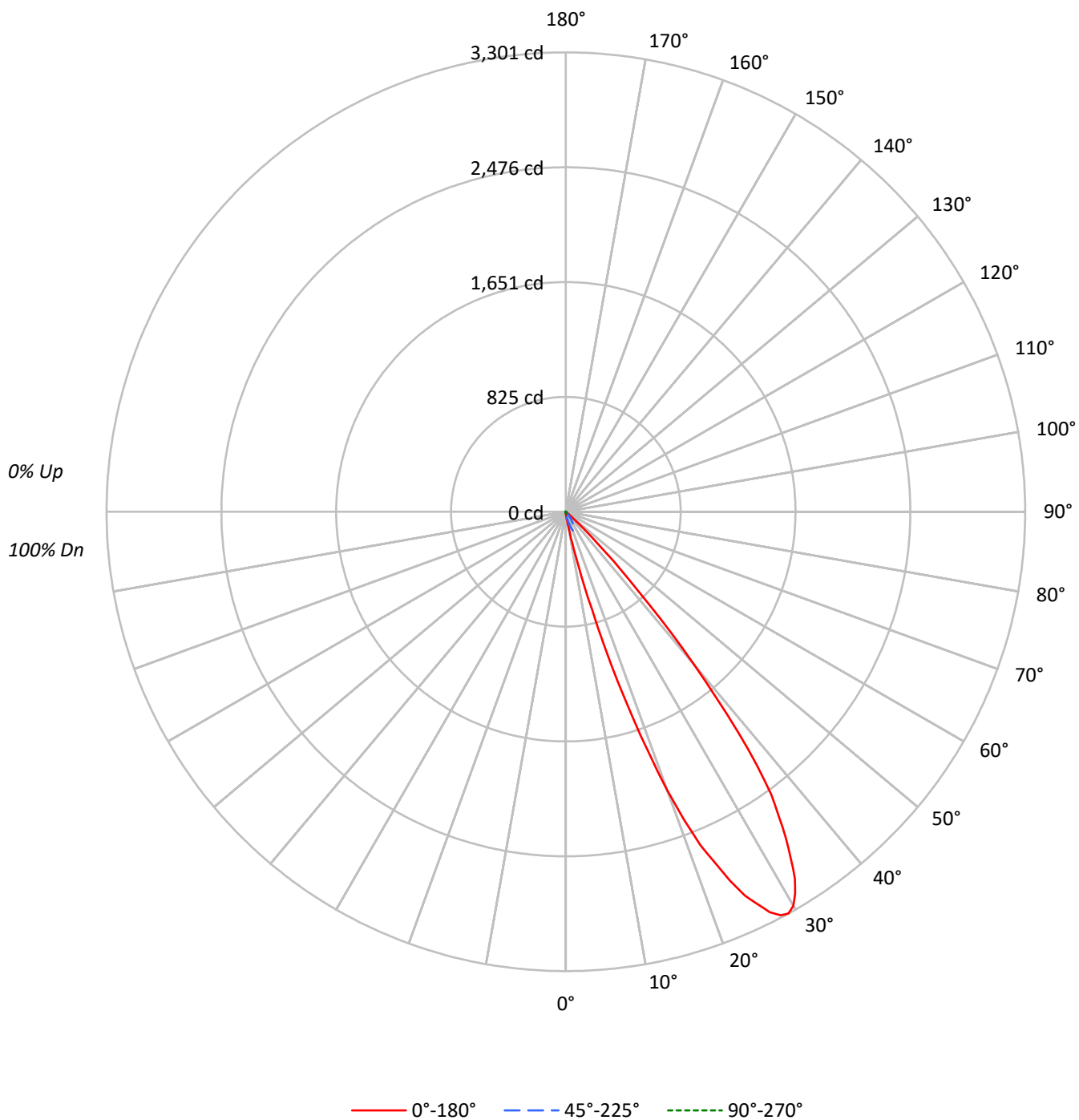
Lumens per Lamp: N/A
Luminaire Lumens: 463.0 lumens
Efficiency: N/A
Efficacy: 31.7 lumens/watt
Spacing Criteria (0/90/45): 2.29 / 0.53 / 1.19
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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°	3508	3508	3508	3508	3508
5°	8034	6009	3324	2025	1761
10°	25339	10465	2716	1113	846
15°	164201	19364	1998	386	91
20°	495596	33136	1377	0	0
25°	736010	33437	823	0	0
30°	827672	25422	329	0	0
35°	714123	15178	214	0	0
40°	411228	5181	0	0	0
45°	100289	2078	124	0	124
50°	12042	580	136	136	443
55°	1606	0	306	306	650
60°	175	0	570	570	921
65°	208	208	882	882	1297
70°	256	256	1090	1090	1346
75°	0	339	1440	1101	1440
80°	0	505	1642	1010	1642
85°	0	1006	3271	1006	1006

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°

Vertical Angle: 45°

Luminance: 100941 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.1	0.5
10°-20°	42.9	9.3
20°-30°	187.0	40.4
30°-40°	188.3	40.7
40°-50°	37.8	8.2
50°-60°	1.9	0.4
60°-70°	1.2	0.3
70°-80°	1.1	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°	232.1	50.1
0°-40°	420.4	90.8
0°-60°	460.1	99.4
0°-90°	463.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	463.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	16	16	16	16	16	
5°	36	27	15	9	8	6
15°	723	85	9	2	0	283
25°	3042	138	3	0	0	1372
35°	2668	57	1	0	0	1587
45°	323	7	0	0	0	352
55°	4	0	1	1	2	8
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°	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0
2.5°	23.9	23.9	23.5	23.5	23.1	23.5	22.7	23.1	23.1	22.7	20.6
5°	36.5	37.4	37.0	37.0	36.5	37.0	36.1	35.3	34.4	34.4	27.3
7.5°	60.1	59.6	58.8	59.2	58.0	57.1	56.3	55.9	53.3	52.1	35.7
10°	113.8	116.4	114.3	113.8	106.3	105.9	100.8	93.7	87.4	84.0	47.0
12.5°	313.4	326.8	305.8	295.7	289.8	267.2	257.5	232.7	208.8	190.7	59.6
15°	723.3	756.5	714.1	717.0	681.7	617.1	560.3	511.6	454.1	396.1	85.3
17.5°	1417.3	1390.4	1367.3	1328.2	1256.4	1161.4	1039.2	915.3	808.2	696.0	118.9
20°	2123.8	2099.8	2047.3	1962.1	1870.5	1729.8	1584.4	1398.3	1218.1	1049.3	142.0
21°	2367.0	2359.0	2272.9	2220.4	2079.3	1944.8	1777.2	1578.1	1375.2	1175.3	145.8
22°	2584.2	2536.3	2490.1	2412.4	2272.1	2125.9	1939.4	1729.8	1509.7	1287.5	146.2
23°	2734.5	2712.7	2669.0	2581.2	2441.8	2270.0	2073.4	1854.1	1622.2	1366.8	144.9
24°	2900.9	2873.1	2809.3	2706.8	2566.1	2396.4	2172.1	1954.5	1702.5	1433.6	141.6
25°	3042.0	2998.7	2923.1	2812.7	2658.9	2483.8	2258.2	2019.2	1758.3	1478.6	138.2
26°	3133.6	3110.1	3013.0	2892.9	2728.2	2547.6	2317.4	2068.7	1794.5	1499.2	132.7
27°	3228.9	3185.7	3090.3	2952.1	2773.6	2589.2	2351.0	2092.7	1807.1	1500.0	126.0
28°	3283.5	3236.5	3128.5	2983.2	2803.0	2612.3	2370.3	2100.3	1804.5	1487.0	118.0
29°	3300.8	3241.5	3136.1	2988.2	2810.1	2614.0	2367.4	2089.3	1782.3	1455.1	108.8
30°	3268.8	3208.3	3108.4	2964.3	2787.5	2593.0	2340.1	2053.2	1742.8	1409.3	100.4
31°	3199.1	3147.9	3051.2	2906.8	2737.1	2543.8	2278.4	1994.0	1675.6	1347.9	90.7
32°	3107.1	3056.7	2961.8	2831.1	2658.5	2463.6	2193.9	1901.6	1596.6	1256.4	81.1
33°	2968.9	2939.9	2854.7	2729.9	2557.3	2348.9	2080.5	1791.1	1484.0	1154.7	72.7
34°	2829.0	2792.5	2732.9	2596.3	2410.7	2202.7	1932.7	1638.6	1346.7	1040.9	64.7
35°	2667.7	2645.9	2552.2	2443.0	2256.5	2044.0	1775.6	1490.3	1186.6	914.0	56.7
36°	2511.5	2477.9	2371.2	2255.7	2074.6	1844.9	1579.8	1311.8	1048.4	795.2	48.3
37°	2284.7	2233.4	2157.4	2035.6	1823.9	1628.1	1386.2	1137.5	878.3	666.6	39.1
38°	2017.9	1994.0	1888.5	1765.9	1590.7	1405.1	1165.6	954.8	724.6	556.6	29.8
39°	1703.3	1702.9	1602.1	1513.4	1342.1	1174.9	959.0	775.0	598.2	448.2	23.1
40°	1436.6	1387.0	1324.8	1213.5	1082.1	940.1	751.1	606.6	464.2	361.2	18.1
42.5°	753.2	749.0	712.4	628.8	555.3	471.7	375.1	312.5	244.5	199.1	11.3
45°	323.4	325.5	300.3	287.7	259.2	224.3	189.4	157.9	135.3	109.6	6.7
47.5°	81.9	78.5	77.7	80.6	80.6	78.1	70.1	65.9	60.9	55.9	3.8
50°	35.3	34.4	33.6	33.6	31.5	30.2	28.1	25.6	23.5	21.0	1.7
52.5°	13.0	13.4	13.9	13.4	13.4	13.0	13.0	12.6	11.3	10.1	0.8
55°	4.2	4.2	4.2	4.6	4.6	5.0	5.0	5.0	5.0	4.6	0.0
57.5°	0.8	0.8	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°	16.0	16.0	16.0	16.0	16.0	16.0
2.5°	18.5	16.4	13.9	11.8	11.3	10.9
5°	20.6	15.1	11.3	9.2	8.4	8.0
7.5°	22.3	13.9	9.2	6.7	5.9	5.5
10°	23.1	12.2	7.6	5.0	3.8	3.8
12.5°	23.5	10.5	5.5	3.4	2.1	2.1
15°	23.1	8.8	4.2	1.7	0.4	0.4
17.5°	21.0	7.1	2.5	0.4	0.0	0.0
20°	18.1	5.9	1.7	0.0	0.0	0.0
21°	17.2	5.0	1.3	0.0	0.0	0.0
22°	16.0	4.6	0.8	0.0	0.0	0.0
23°	14.7	4.2	0.8	0.0	0.0	0.0
24°	13.4	3.8	0.4	0.0	0.0	0.0
25°	12.6	3.4	0.4	0.0	0.0	0.0
26°	11.8	2.9	0.4	0.0	0.0	0.0
27°	10.5	2.5	0.0	0.0	0.0	0.0
28°	9.7	2.1	0.0	0.0	0.0	0.0
29°	8.4	1.7	0.0	0.0	0.0	0.0
30°	7.1	1.3	0.0	0.0	0.0	0.0
31°	5.9	1.3	0.0	0.0	0.0	0.0
32°	5.0	0.8	0.0	0.0	0.0	0.0
33°	4.2	0.8	0.0	0.0	0.0	0.0
34°	3.8	0.8	0.0	0.0	0.0	0.0
35°	3.4	0.8	0.0	0.0	0.0	0.0
36°	2.5	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	0.8
50°	0.0	0.4	0.4	0.4	0.8	1.3
52.5°	0.0	0.8	0.4	0.4	1.3	1.3
55°	0.4	0.8	0.4	0.8	1.7	1.7
57.5°	0.4	0.8	0.8	1.3	1.7	2.1
60°	0.8	1.3	1.3	1.3	2.1	2.1
62.5°	0.8	1.3	1.7	1.7	2.1	2.5
65°	0.8	1.7	1.7	1.7	2.1	2.5
67.5°	1.3	1.7	1.7	1.7	2.1	2.5
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°	0.8	1.3	1.3	0.8	1.3	1.3
80°	0.8	1.3	0.8	0.8	1.3	1.3



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.8	1.3	0.8	0.4	0.8	0.8
85°	0.8	1.3	0.8	0.4	0.4	0.4
87.5°	0.8	1.3	0.8	0.4	0.0	0.4
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)