

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: P1343937

Luminaire Tested: P3A13R209035DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1343937
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: P3A13R209035DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R20 optic, 3500K CCT AND, 90CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

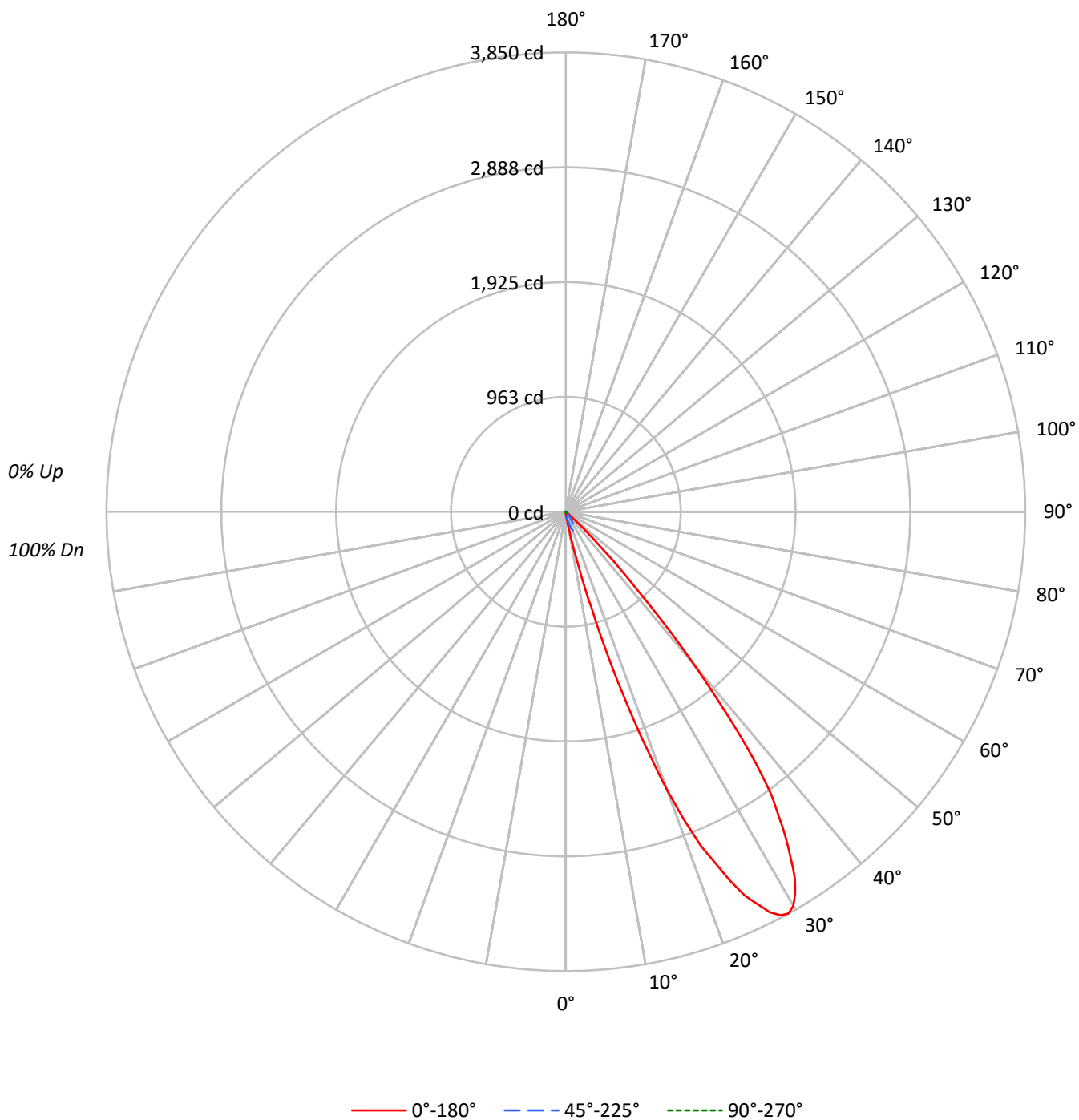
Lumens per Lamp: N/A
Luminaire Lumens: 540.1 lumens
Efficiency: N/A
Efficacy: 37.0 lumens/watt
Spacing Criteria (0/90/45): 2.3 / 0.54 / 1.19
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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			0
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°	4079	4079	4079	4079	4079
5°	9377	7000	3874	2377	2047
10°	29570	12224	3162	1314	980
15°	191511	22588	2338	454	114
20°	578017	38643	1610	0	0
25°	858412	39002	944	0	0
30°	965338	29650	380	0	0
35°	832898	17694	268	0	0
40°	479613	6040	0	0	0
45°	116973	2419	155	0	155
50°	14055	682	171	171	512
55°	1873	0	382	382	765
60°	219	0	658	658	1053
65°	259	259	1038	1038	1505
70°	321	321	1282	1282	1539
75°	0	424	1694	1271	1694
80°	0	631	1894	1263	1894
85°	0	1258	3774	1258	1258

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°

Vertical Angle: 45°

Luminance: 117749 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.5	0.5
10°-20°	50.0	9.3
20°-30°	218.1	40.4
30°-40°	219.7	40.7
40°-50°	44.1	8.2
50°-60°	2.2	0.4
60°-70°	1.5	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°	270.7	50.1
0°-40°	490.3	90.8
0°-60°	536.6	99.4
0°-90°	540.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	540.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	19	19	19	19	19	
5°	43	32	18	11	9	7
15°	844	100	10	2	0	330
25°	3548	161	4	0	0	1600
35°	3111	66	1	0	0	1851
45°	377	8	0	0	0	411
55°	5	0	1	1	2	9
65°	0	0	2	2	3	0
75°	0	0	2	2	2	0
85°	0	0	2	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°	18.6	18.6	18.6	18.6	18.6	18.6	18.6	18.6	18.6	18.6	18.6
2.5°	27.9	27.9	27.4	27.4	26.9	27.4	26.5	26.9	26.9	26.5	24.0
5°	42.6	43.6	43.1	43.1	42.6	43.1	42.1	41.2	40.2	40.2	31.8
7.5°	70.1	69.6	68.6	69.1	67.6	66.6	65.6	65.2	62.2	60.7	41.6
10°	132.8	135.7	133.3	132.8	123.9	123.5	117.6	109.2	101.9	98.0	54.9
12.5°	365.5	381.1	356.7	344.9	338.0	311.6	300.3	271.4	243.5	222.4	69.6
15°	843.6	882.3	832.8	836.3	795.1	719.7	653.5	596.7	529.6	462.0	99.5
17.5°	1652.9	1621.6	1594.7	1549.1	1465.3	1354.6	1212.0	1067.5	942.6	811.8	138.6
20°	2477.0	2449.0	2387.8	2288.4	2181.6	2017.4	1847.9	1630.9	1420.7	1223.8	165.6
21°	2760.6	2751.3	2650.9	2589.7	2425.0	2268.3	2072.8	1840.6	1604.0	1370.8	170.0
22°	3013.9	2958.1	2904.2	2813.5	2649.9	2479.4	2261.9	2017.4	1760.7	1501.6	170.5
23°	3189.3	3163.8	3112.9	3010.5	2847.8	2647.5	2418.2	2162.5	1892.0	1594.2	169.0
24°	3383.3	3351.0	3276.5	3157.0	2992.8	2794.9	2533.3	2279.5	1985.6	1672.1	165.1
25°	3547.9	3497.5	3409.3	3280.4	3101.1	2896.8	2633.7	2355.0	2050.8	1724.5	161.2
26°	3654.7	3627.3	3514.1	3374.0	3182.0	2971.3	2702.8	2412.8	2092.9	1748.5	154.8
27°	3765.9	3715.5	3604.3	3443.1	3234.9	3019.8	2742.0	2440.7	2107.6	1749.5	147.0
28°	3829.6	3774.7	3648.8	3479.3	3269.2	3046.7	2764.6	2449.5	2104.6	1734.3	137.7
29°	3849.7	3780.6	3657.7	3485.2	3277.5	3048.7	2761.1	2436.8	2078.7	1697.0	126.9
30°	3812.5	3741.9	3625.3	3457.3	3251.0	3024.2	2729.3	2394.7	2032.6	1643.6	117.1
31°	3731.1	3671.4	3558.7	3390.2	3192.2	2966.9	2657.3	2325.6	1954.2	1572.1	105.8
32°	3623.8	3565.1	3454.3	3302.0	3100.6	2873.3	2558.8	2217.8	1862.1	1465.3	94.6
33°	3462.7	3428.9	3329.4	3183.9	2982.6	2739.6	2426.5	2089.0	1730.8	1346.8	84.8
34°	3299.5	3256.9	3187.3	3028.1	2811.6	2569.1	2254.1	1911.1	1570.6	1214.0	75.4
35°	3111.4	3085.9	2976.7	2849.3	2631.8	2383.9	2070.8	1738.2	1384.0	1066.0	66.1
36°	2929.2	2890.0	2765.5	2630.8	2419.7	2151.7	1842.5	1530.0	1222.8	927.4	56.3
37°	2664.6	2604.8	2516.2	2374.1	2127.2	1898.9	1616.7	1326.7	1024.4	777.5	45.6
38°	2353.5	2325.6	2202.6	2059.6	1855.3	1638.7	1359.5	1113.6	845.1	649.1	34.8
39°	1986.6	1986.1	1868.5	1765.1	1565.3	1370.3	1118.5	903.9	697.6	522.7	26.9
40°	1675.5	1617.7	1545.2	1415.3	1262.0	1096.4	876.0	707.4	541.3	421.3	21.1
42.5°	878.4	873.5	830.9	733.4	647.7	550.2	437.5	364.5	285.1	232.2	13.2
45°	377.2	379.7	350.3	335.6	302.3	261.6	220.9	184.2	157.8	127.9	7.8
47.5°	95.5	91.6	90.6	94.1	94.1	91.1	81.8	76.9	71.0	65.2	4.4
50°	41.2	40.2	39.2	39.2	36.7	35.3	32.8	29.9	27.4	24.5	2.0
52.5°	15.2	15.7	16.2	15.7	15.7	15.2	15.2	14.7	13.2	11.8	1.0
55°	4.9	4.9	4.9	5.4	5.4	5.9	5.9	5.9	5.9	5.4	0.0
57.5°	1.0	1.0	1.5	1.5	1.5	1.5	1.5	1.5	2.0	2.0	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°	18.6	18.6	18.6	18.6	18.6	18.6
2.5°	21.6	19.1	16.2	13.7	13.2	12.7
5°	24.0	17.6	13.2	10.8	9.8	9.3
7.5°	26.0	16.2	10.8	7.8	6.9	6.4
10°	26.9	14.2	8.8	5.9	4.4	4.4
12.5°	27.4	12.2	6.4	3.9	2.4	2.4
15°	26.9	10.3	4.9	2.0	0.5	0.5
17.5°	24.5	8.3	2.9	0.5	0.0	0.0
20°	21.1	6.9	2.0	0.0	0.0	0.0
21°	20.1	5.9	1.5	0.0	0.0	0.0
22°	18.6	5.4	1.0	0.0	0.0	0.0
23°	17.1	4.9	1.0	0.0	0.0	0.0
24°	15.7	4.4	0.5	0.0	0.0	0.0
25°	14.7	3.9	0.5	0.0	0.0	0.0
26°	13.7	3.4	0.5	0.0	0.0	0.0
27°	12.2	2.9	0.0	0.0	0.0	0.0
28°	11.3	2.4	0.0	0.0	0.0	0.0
29°	9.8	2.0	0.0	0.0	0.0	0.0
30°	8.3	1.5	0.0	0.0	0.0	0.0
31°	6.9	1.5	0.0	0.0	0.0	0.0
32°	5.9	1.0	0.0	0.0	0.0	0.0
33°	4.9	1.0	0.0	0.0	0.0	0.0
34°	4.4	1.0	0.0	0.0	0.0	0.0
35°	3.9	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°	2.0	0.5	0.0	0.0	0.0	0.0
39°	1.5	0.0	0.0	0.0	0.0	0.0
40°	1.5	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	1.5
52.5°	0.0	1.0	0.5	0.5	1.5	1.5
55°	0.5	1.0	0.5	1.0	2.0	2.0
57.5°	0.5	1.0	1.0	1.5	2.0	2.4
60°	1.0	1.5	1.5	1.5	2.4	2.4
62.5°	1.0	1.5	2.0	2.0	2.4	2.9
65°	1.0	2.0	2.0	2.0	2.4	2.9
67.5°	1.5	2.0	2.0	2.0	2.4	2.9
70°	1.5	2.0	2.0	2.0	2.4	2.4
72.5°	1.5	2.0	1.5	2.0	2.0	2.4
75°	1.5	2.0	1.5	1.5	2.0	2.0
77.5°	1.0	1.5	1.5	1.0	1.5	1.5
80°	1.0	1.5	1.0	1.0	1.5	1.5



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	1.0	1.5	1.0	0.5	1.0	1.0
85°	1.0	1.5	1.0	0.5	0.5	0.5
87.5°	1.0	1.5	1.0	0.5	0.0	0.5
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)