

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: P1344201

Luminaire Tested: P3A13R20W2N902750DE010 E3A301GPH_3500K

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1344201
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: P3A13R20W2N902750DE010 E3A301GPH_3500K
Description: 3in Adjustable Tunable White LED luminaire with, R20 optic, 3500K CCT AND, 90CRI , E3A301GPH TRIM
Light Source: -
Ballast/Driver: -

Summary

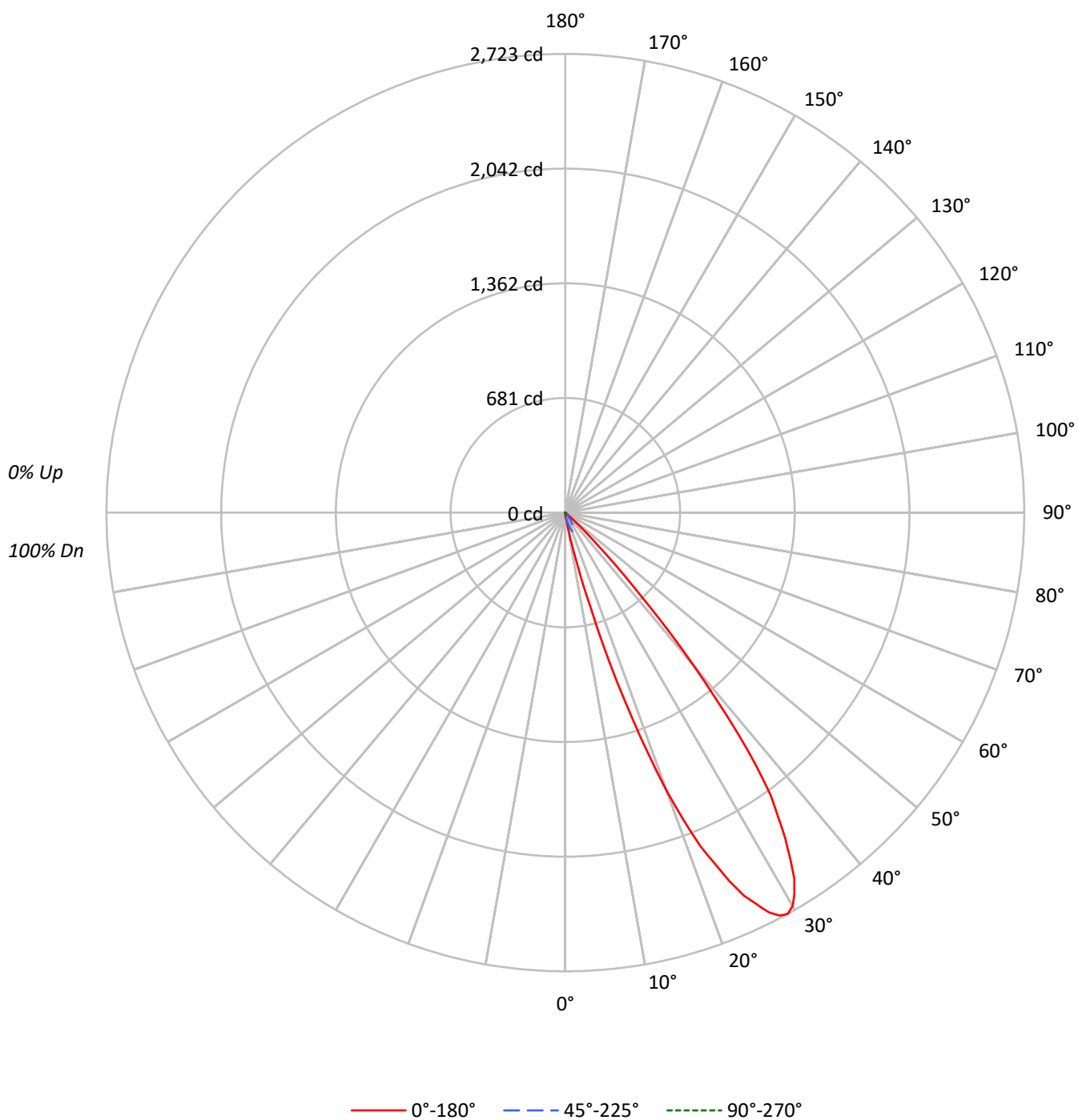
Lumens per Lamp: N/A
Luminaire Lumens: 381.9 lumens
Efficiency: N/A
Efficacy: 31.1 lumens/watt
Spacing Criteria (0/90/45): 2.29 / 0.53 / 1.19
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 12.3
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				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	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°	2895	2895	2895	2895	2895
5°	6648	4953	2751	1673	1453
10°	20908	8639	2249	935	690
15°	135483	15982	1657	318	68
20°	408882	27326	1143	0	0
25°	607245	27582	677	0	0
30°	682890	20965	253	0	0
35°	589191	12528	187	0	0
40°	339293	4265	0	0	0
45°	82768	1706	93	0	93
50°	9927	478	102	102	341
55°	1338	0	268	268	535
60°	132	0	439	439	746
65°	156	156	726	726	1090
70°	192	192	898	898	1090
75°	0	254	1186	847	1186
80°	0	379	1263	884	1263
85°	0	755	2516	755	755

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°

Vertical Angle: 45°

Luminance: 83295 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.8	0.5
10°-20°	35.4	9.3
20°-30°	154.3	40.4
30°-40°	155.4	40.7
40°-50°	31.2	8.2
50°-60°	1.6	0.4
60°-70°	1.0	0.3
70°-80°	0.9	0.2
80°-90°	0.4	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°	191.5	50.1
0°-40°	346.9	90.8
0°-60°	379.6	99.4
0°-90°	381.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	381.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	13	13	13	13	13	
5°	30	22	12	8	7	5
15°	597	70	7	1	0	234
25°	2510	114	3	0	0	1132
35°	2201	47	1	0	0	1310
45°	267	6	0	0	0	291
55°	4	0	1	1	1	6
65°	0	0	1	1	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°	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2
2.5°	19.8	19.8	19.4	19.4	19.1	19.4	18.7	19.1	19.1	18.7	17.0
5°	30.2	30.8	30.5	30.5	30.2	30.5	29.8	29.1	28.4	28.4	22.5
7.5°	49.6	49.2	48.5	48.9	47.8	47.1	46.4	46.1	44.0	43.0	29.5
10°	93.9	96.0	94.3	93.9	87.7	87.3	83.2	77.3	72.1	69.3	38.8
12.5°	258.5	269.6	252.3	244.0	239.1	220.4	212.4	192.0	172.2	157.3	49.2
15°	596.8	624.2	589.2	591.6	562.5	509.1	462.3	422.1	374.6	326.8	70.4
17.5°	1169.3	1147.1	1128.1	1095.8	1036.6	958.3	857.4	755.2	666.8	574.3	98.1
20°	1752.2	1732.5	1689.2	1618.8	1543.3	1427.2	1307.2	1153.7	1005.0	865.7	117.1
21°	1952.9	1946.3	1875.3	1831.9	1715.5	1604.6	1466.3	1302.0	1134.7	969.7	120.3
22°	2132.1	2092.6	2054.4	1990.3	1874.6	1754.0	1600.1	1427.2	1245.6	1062.2	120.6
23°	2256.1	2238.1	2202.1	2129.6	2014.6	1872.8	1710.6	1529.7	1338.4	1127.7	119.6
24°	2393.4	2370.5	2317.8	2233.3	2117.2	1977.2	1792.1	1612.6	1404.6	1182.8	116.8
25°	2509.8	2474.1	2411.7	2320.6	2193.8	2049.2	1863.1	1665.9	1450.7	1219.9	114.0
26°	2585.4	2566.0	2485.9	2386.8	2250.9	2101.9	1912.0	1706.8	1480.5	1236.9	109.5
27°	2664.0	2628.3	2549.7	2435.7	2288.4	2136.2	1939.7	1726.6	1490.9	1237.6	104.0
28°	2709.1	2670.3	2581.2	2461.3	2312.6	2155.3	1955.7	1732.8	1488.8	1226.8	97.4
29°	2723.3	2674.4	2587.5	2465.5	2318.5	2156.7	1953.2	1723.8	1470.5	1200.5	89.8
30°	2697.0	2647.1	2564.6	2445.7	2299.8	2139.3	1930.7	1694.0	1437.9	1162.7	82.8
31°	2639.4	2597.2	2517.4	2398.2	2258.2	2098.8	1879.8	1645.1	1382.4	1112.1	74.9
32°	2563.5	2522.0	2443.6	2335.8	2193.4	2032.6	1810.1	1568.9	1317.3	1036.6	66.9
33°	2449.5	2425.6	2355.3	2252.3	2109.9	1938.0	1716.5	1477.8	1224.4	952.7	60.0
34°	2334.1	2304.0	2254.7	2142.1	1988.9	1817.4	1594.5	1351.9	1111.1	858.8	53.4
35°	2201.0	2183.0	2105.7	2015.6	1861.7	1686.4	1464.9	1229.6	979.0	754.1	46.8
36°	2072.1	2044.4	1956.4	1861.1	1711.7	1522.1	1303.4	1082.3	865.0	656.0	39.9
37°	1885.0	1842.7	1780.0	1679.5	1504.8	1343.3	1143.7	938.5	724.7	550.0	32.2
38°	1664.9	1645.1	1558.2	1457.0	1312.4	1159.3	961.7	787.7	597.8	459.2	24.6
39°	1405.3	1405.0	1321.8	1248.7	1107.3	969.3	791.2	639.4	493.5	369.8	19.1
40°	1185.3	1144.4	1093.1	1001.2	892.8	775.6	619.7	500.4	383.0	298.0	14.9
42.5°	621.4	617.9	587.8	518.8	458.2	389.2	309.5	257.8	201.7	164.3	9.4
45°	266.9	268.6	247.8	237.4	213.8	185.1	156.3	130.3	111.6	90.5	5.5
47.5°	67.6	64.8	64.1	66.5	66.5	64.5	57.9	54.4	50.3	46.1	3.1
50°	29.1	28.4	27.7	27.7	26.0	25.0	23.2	21.1	19.4	17.3	1.4
52.5°	10.7	11.1	11.4	11.1	11.1	10.7	10.7	10.4	9.4	8.3	0.7
55°	3.5	3.5	3.5	3.8	3.8	4.2	4.2	4.2	4.2	3.8	0.0
57.5°	0.7	0.7	1.0	1.0	1.0	1.0	1.0	1.0	1.4	1.4	0.0
60°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0
62.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
65°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
67.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
70°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
72.5°	0.3	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
75°	0.0	0.0	0.0	0.3	0.0	0.3	0.3	0.0	0.3	0.3	0.3
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3



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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	0.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
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°	13.2	13.2	13.2	13.2	13.2	13.2
2.5°	15.2	13.5	11.4	9.7	9.4	9.0
5°	17.0	12.5	9.4	7.6	6.9	6.6
7.5°	18.4	11.4	7.6	5.5	4.9	4.5
10°	19.1	10.1	6.2	4.2	3.1	3.1
12.5°	19.4	8.7	4.5	2.8	1.7	1.7
15°	19.1	7.3	3.5	1.4	0.3	0.3
17.5°	17.3	5.9	2.1	0.3	0.0	0.0
20°	14.9	4.9	1.4	0.0	0.0	0.0
21°	14.2	4.2	1.0	0.0	0.0	0.0
22°	13.2	3.8	0.7	0.0	0.0	0.0
23°	12.1	3.5	0.7	0.0	0.0	0.0
24°	11.1	3.1	0.3	0.0	0.0	0.0
25°	10.4	2.8	0.3	0.0	0.0	0.0
26°	9.7	2.4	0.3	0.0	0.0	0.0
27°	8.7	2.1	0.0	0.0	0.0	0.0
28°	8.0	1.7	0.0	0.0	0.0	0.0
29°	6.9	1.4	0.0	0.0	0.0	0.0
30°	5.9	1.0	0.0	0.0	0.0	0.0
31°	4.9	1.0	0.0	0.0	0.0	0.0
32°	4.2	0.7	0.0	0.0	0.0	0.0
33°	3.5	0.7	0.0	0.0	0.0	0.0
34°	3.1	0.7	0.0	0.0	0.0	0.0
35°	2.8	0.7	0.0	0.0	0.0	0.0
36°	2.1	0.3	0.0	0.0	0.0	0.0
37°	1.7	0.3	0.0	0.0	0.0	0.0
38°	1.4	0.3	0.0	0.0	0.0	0.0
39°	1.0	0.0	0.0	0.0	0.0	0.0
40°	1.0	0.0	0.0	0.0	0.0	0.0
42.5°	0.3	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.3	0.0	0.0	0.3	0.3
47.5°	0.0	0.3	0.0	0.0	0.3	0.7
50°	0.0	0.3	0.3	0.3	0.7	1.0
52.5°	0.0	0.7	0.3	0.3	1.0	1.0
55°	0.3	0.7	0.3	0.7	1.4	1.4
57.5°	0.3	0.7	0.7	1.0	1.4	1.7
60°	0.7	1.0	1.0	1.0	1.7	1.7
62.5°	0.7	1.0	1.4	1.4	1.7	2.1
65°	0.7	1.4	1.4	1.4	1.7	2.1
67.5°	1.0	1.4	1.4	1.4	1.7	2.1
70°	1.0	1.4	1.4	1.4	1.7	1.7
72.5°	1.0	1.4	1.0	1.4	1.4	1.7
75°	1.0	1.4	1.0	1.0	1.4	1.4
77.5°	0.7	1.0	1.0	0.7	1.0	1.0
80°	0.7	1.0	0.7	0.7	1.0	1.0



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.7	1.0	0.7	0.3	0.7	0.7
85°	0.7	1.0	0.7	0.3	0.3	0.3
87.5°	0.7	1.0	0.7	0.3	0.0	0.3
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)