

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: P1344280

Luminaire Tested: P3A13R20W2N902765DE010 E3A301GPH_3000K

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1344280
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: P3A13R20W2N902765DE010 E3A301GPH_3000K
Description: 3in Adjustable Tunable White LED luminaire with, R20 optic, 3000K CCT AND, 90CRI ,
E3A301GPH TRIM
Light Source: -
Ballast/Driver: -

Summary

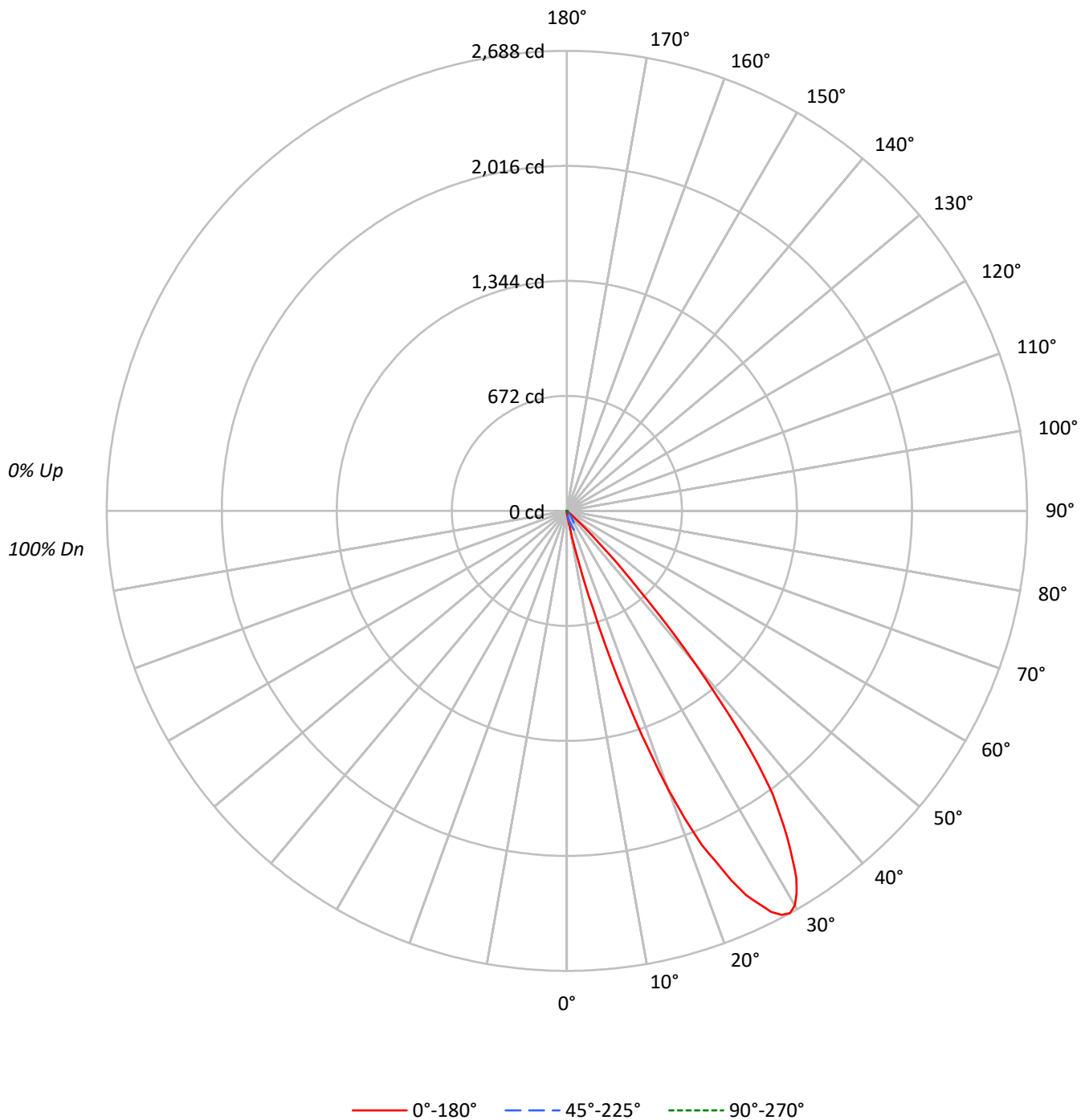
Lumens per Lamp: N/A
Luminaire Lumens: 377.0 lumens
Efficiency: N/A
Efficacy: 30.6 lumens/watt
Spacing Criteria (0/90/45): 2.29 / 0.54 / 1.19
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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
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	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°	2851	2851	2851	2851	2851
5°	6560	4887	2707	1651	1431
10°	20641	8528	2204	913	690
15°	133712	15755	1635	318	68
20°	403538	26976	1120	0	0
25°	599309	27219	653	0	0
30°	673952	20687	253	0	0
35°	581481	12367	187	0	0
40°	334827	4208	0	0	0
45°	81683	1706	93	0	93
50°	9791	478	102	102	341
55°	1300	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: 82210 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.7	0.5
10°-20°	34.9	9.3
20°-30°	152.3	40.4
30°-40°	153.4	40.7
40°-50°	30.8	8.2
50°-60°	1.5	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°	189.0	50.1
0°-40°	342.3	90.8
0°-60°	374.6	99.4
0°-90°	377.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	377.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	13	13	13	13	13	
5°	30	22	12	8	6	5
15°	589	69	7	1	0	231
25°	2477	112	3	0	0	1117
35°	2172	46	1	0	0	1292
45°	263	6	0	0	0	287
55°	3	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°	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0
2.5°	19.5	19.5	19.2	19.2	18.8	19.2	18.5	18.8	18.8	18.5	16.8
5°	29.8	30.4	30.1	30.1	29.8	30.1	29.4	28.7	28.0	28.0	22.2
7.5°	48.9	48.6	47.9	48.2	47.2	46.5	45.8	45.5	43.4	42.4	29.1
10°	92.7	94.7	93.0	92.7	86.5	86.2	82.1	76.3	71.1	68.4	38.3
12.5°	255.2	266.1	249.0	240.8	236.0	217.5	209.7	189.5	170.0	155.3	48.6
15°	589.0	616.0	581.4	583.8	555.1	502.4	456.3	416.6	369.7	322.5	69.4
17.5°	1154.0	1132.1	1113.3	1081.5	1023.0	945.7	846.2	745.3	658.1	566.7	96.8
20°	1729.3	1709.8	1667.0	1597.6	1523.1	1408.5	1290.1	1138.6	991.9	854.4	115.6
21°	1927.3	1920.8	1850.7	1808.0	1693.0	1583.6	1447.1	1285.0	1119.8	957.0	118.7
22°	2104.2	2065.2	2027.5	1964.3	1850.0	1731.0	1579.1	1408.5	1229.2	1048.3	119.0
23°	2226.6	2208.8	2173.2	2101.8	1988.2	1848.3	1688.3	1509.7	1320.9	1113.0	118.0
24°	2362.0	2339.5	2287.5	2204.0	2089.5	1951.3	1768.6	1591.5	1386.2	1167.3	115.3
25°	2477.0	2441.7	2380.2	2290.2	2165.0	2022.4	1838.7	1644.1	1431.7	1203.9	112.5
26°	2551.5	2532.4	2453.4	2355.5	2221.5	2074.4	1887.0	1684.5	1461.1	1220.7	108.1
27°	2629.2	2593.9	2516.3	2403.8	2258.4	2108.3	1914.3	1704.0	1471.4	1221.4	102.6
28°	2673.6	2635.3	2547.4	2429.1	2282.4	2127.1	1930.1	1710.1	1469.4	1210.8	96.1
29°	2687.7	2639.4	2553.6	2433.2	2288.2	2128.4	1927.7	1701.2	1451.2	1184.8	88.6
30°	2661.7	2612.4	2531.0	2413.7	2269.7	2111.3	1905.4	1671.8	1419.1	1147.5	81.7
31°	2604.9	2563.2	2484.5	2366.8	2228.7	2071.3	1855.2	1623.6	1364.4	1097.6	73.9
32°	2530.0	2488.9	2411.6	2305.3	2164.7	2006.0	1786.4	1548.4	1300.0	1023.0	66.0
33°	2417.5	2393.9	2324.4	2222.8	2082.3	1912.6	1694.1	1458.4	1208.4	940.2	59.2
34°	2303.6	2273.8	2225.2	2114.1	1962.9	1793.6	1573.7	1334.3	1096.5	847.5	52.7
35°	2172.2	2154.4	2078.2	1989.2	1837.4	1664.3	1445.8	1213.5	966.2	744.3	46.2
36°	2045.0	2017.6	1930.8	1836.7	1689.3	1502.2	1286.4	1068.2	853.7	647.5	39.3
37°	1860.3	1818.6	1756.7	1657.5	1485.1	1325.7	1128.7	926.2	715.2	542.8	31.8
38°	1643.1	1623.6	1537.8	1437.9	1295.3	1144.1	949.1	777.4	590.0	453.2	24.3
39°	1386.9	1386.6	1304.5	1232.3	1092.8	956.7	780.9	631.0	487.0	364.9	18.8
40°	1169.7	1129.4	1078.8	988.1	881.1	765.5	611.5	493.9	377.9	294.1	14.7
42.5°	613.3	609.8	580.1	512.0	452.2	384.1	305.4	254.5	199.1	162.1	9.2
45°	263.4	265.1	244.6	234.3	211.0	182.6	154.3	128.6	110.1	89.3	5.5
47.5°	66.7	64.0	63.3	65.7	65.7	63.6	57.1	53.7	49.6	45.5	3.1
50°	28.7	28.0	27.4	27.4	25.7	24.6	22.9	20.9	19.2	17.1	1.4
52.5°	10.6	10.9	11.3	10.9	10.9	10.6	10.6	10.3	9.2	8.2	0.7
55°	3.4	3.4	3.4	3.8	3.8	4.1	4.1	4.1	4.1	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°	13.0	13.0	13.0	13.0	13.0	13.0
2.5°	15.0	13.3	11.3	9.6	9.2	8.9
5°	16.8	12.3	9.2	7.5	6.8	6.5
7.5°	18.1	11.3	7.5	5.5	4.8	4.4
10°	18.8	9.9	6.2	4.1	3.1	3.1
12.5°	19.2	8.6	4.4	2.7	1.7	1.7
15°	18.8	7.2	3.4	1.4	0.3	0.3
17.5°	17.1	5.8	2.1	0.3	0.0	0.0
20°	14.7	4.8	1.4	0.0	0.0	0.0
21°	14.0	4.1	1.0	0.0	0.0	0.0
22°	13.0	3.8	0.7	0.0	0.0	0.0
23°	12.0	3.4	0.7	0.0	0.0	0.0
24°	10.9	3.1	0.3	0.0	0.0	0.0
25°	10.3	2.7	0.3	0.0	0.0	0.0
26°	9.6	2.4	0.3	0.0	0.0	0.0
27°	8.6	2.1	0.0	0.0	0.0	0.0
28°	7.9	1.7	0.0	0.0	0.0	0.0
29°	6.8	1.4	0.0	0.0	0.0	0.0
30°	5.8	1.0	0.0	0.0	0.0	0.0
31°	4.8	1.0	0.0	0.0	0.0	0.0
32°	4.1	0.7	0.0	0.0	0.0	0.0
33°	3.4	0.7	0.0	0.0	0.0	0.0
34°	3.1	0.7	0.0	0.0	0.0	0.0
35°	2.7	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)