

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: P1343903

Luminaire Tested: P3A13R209030D2WDE010 E3A301GPH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1343903
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: P3A13R209030D2WDE010 E3A301GPH
Description: 3in Adjustable Dim to Warm LED luminaire with, R20 optic, 3000K CCT AND, 90CRI ,
E3A301GPH TRIM
Light Source: -
Ballast/Driver: -

Summary

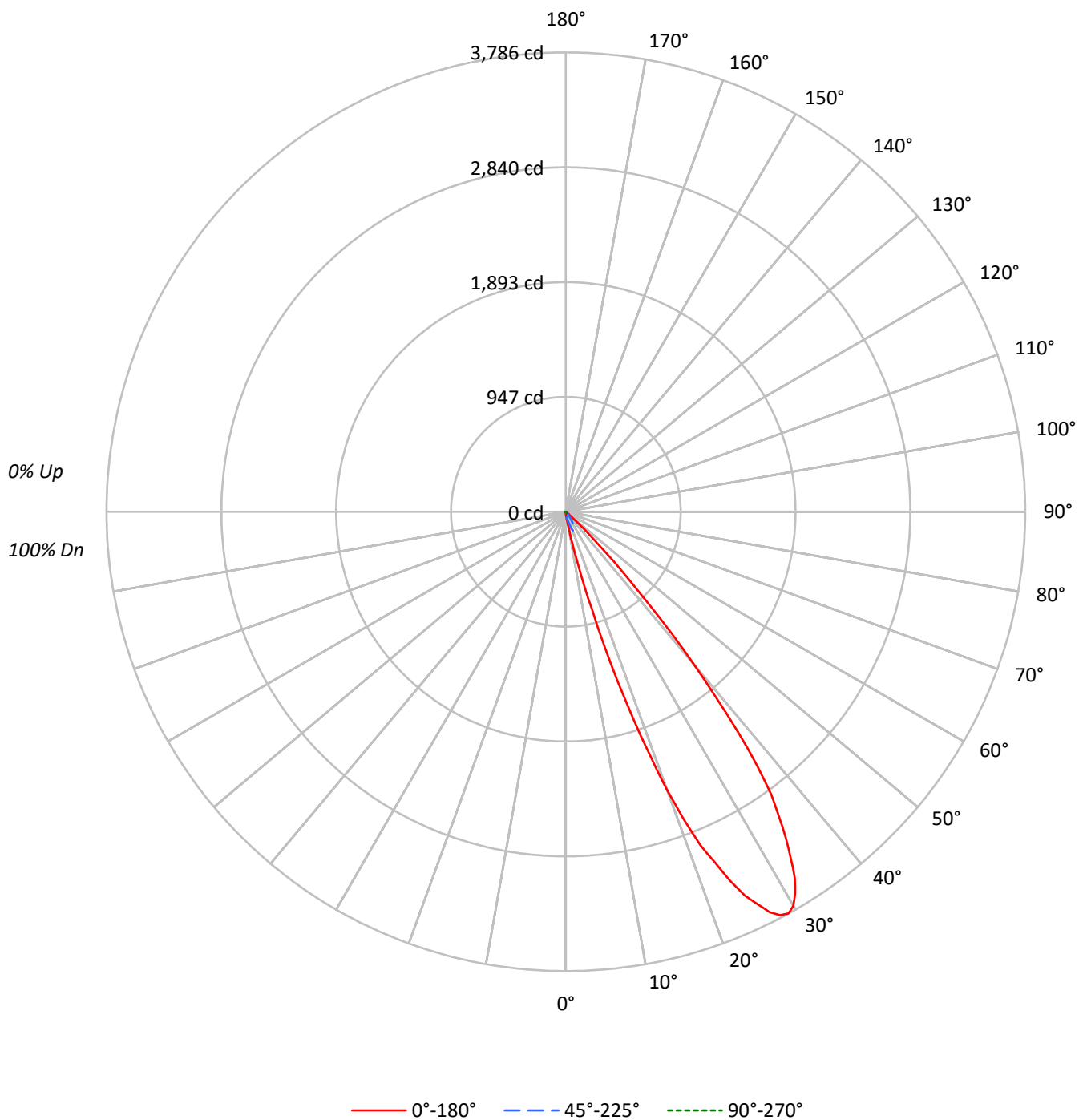
Lumens per Lamp: N/A
Luminaire Lumens: 531.0 lumens
Efficiency: N/A
Efficacy: 26.4 lumens/watt
Spacing Criteria (0/90/45): 2.3 / 0.53 / 1.19
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 20.1
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
RCR																			
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92	92
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	83	83
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75	75
4	93	84	78	73	91	83	77	72	81	76	71	79	74	71	77	73	70	68	68
5	87	77	70	65	85	76	70	65	74	69	64	72	68	64	71	67	63	61	61
6	81	71	64	59	80	70	63	58	68	62	58	67	62	58	65	61	57	55	55
7	76	65	58	53	74	64	57	53	63	57	52	62	56	52	60	55	52	50	50
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45	45
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	51	46	43	41	41
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	4013	4013	4013	4013	4013
5°	9223	6890	3808	2333	2025
10°	29080	12024	3117	1291	957
15°	188333	22202	2293	431	114
20°	568379	37990	1563	0	0
25°	844113	38349	944	0	0
30°	949235	29144	354	0	0
35°	819005	17400	268	0	0
40°	471626	5925	0	0	0
45°	115020	2388	155	0	155
50°	13816	648	171	171	478
55°	1835	0	382	382	726
60°	219	0	614	614	1053
65°	259	259	986	986	1505
70°	321	321	1218	1218	1539
75°	0	424	1610	1186	1610
80°	0	631	1768	1263	1768
85°	0	1258	3522	1258	1258

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°

Vertical Angle: 45°

Luminance: 115795 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.5	0.5
10°-20°	49.2	9.3
20°-30°	214.5	40.4
30°-40°	216.0	40.7
40°-50°	43.3	8.2
50°-60°	2.2	0.4
60°-70°	1.4	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°	266.2	50.1
0°-40°	482.2	90.8
0°-60°	527.7	99.4
0°-90°	531.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	531.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	18	18	18	18	18	
5°	42	31	17	11	9	7
15°	830	98	10	2	0	325
25°	3489	158	4	0	0	1573
35°	3060	65	1	0	0	1820
45°	371	8	0	0	0	404
55°	5	0	1	1	2	9
65°	0	0	2	2	3	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°	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3
2.5°	27.5	27.5	27.0	27.0	26.5	27.0	26.0	26.5	26.5	26.0	23.6
5°	41.9	42.9	42.4	42.4	41.9	42.4	41.4	40.5	39.5	39.5	31.3
7.5°	68.9	68.4	67.4	67.9	66.5	65.5	64.6	64.1	61.2	59.7	40.9
10°	130.6	133.4	131.0	130.6	121.9	121.4	115.6	107.4	100.2	96.3	54.0
12.5°	359.4	374.8	350.7	339.1	332.4	306.4	295.3	266.9	239.4	218.7	68.4
15°	829.6	867.6	819.0	822.3	781.9	707.7	642.6	586.8	520.8	454.3	97.8
17.5°	1625.4	1594.6	1568.1	1523.3	1440.9	1332.0	1191.8	1049.7	926.9	798.2	136.3
20°	2435.7	2408.2	2348.0	2250.2	2145.2	1983.8	1817.1	1603.7	1397.1	1203.4	162.8
21°	2714.6	2705.5	2606.7	2546.5	2384.6	2230.5	2038.3	1809.9	1577.2	1347.9	167.2
22°	2963.7	2908.8	2855.8	2766.6	2605.7	2438.1	2224.2	1983.8	1731.4	1476.5	167.6
23°	3136.1	3111.1	3061.0	2960.3	2800.4	2603.3	2377.9	2126.4	1860.5	1567.6	166.2
24°	3326.9	3295.1	3221.9	3104.4	2943.0	2748.3	2491.1	2241.5	1952.5	1644.2	162.3
25°	3488.8	3439.2	3352.4	3225.8	3049.4	2848.5	2589.8	2315.7	2016.6	1695.7	158.5
26°	3593.8	3566.8	3455.5	3317.8	3128.9	2921.8	2657.8	2372.6	2058.0	1719.3	152.2
27°	3703.2	3653.5	3544.2	3385.7	3180.9	2969.5	2696.3	2400.0	2072.5	1720.3	144.5
28°	3765.8	3711.8	3588.0	3421.3	3214.7	2996.0	2718.5	2408.7	2069.6	1705.4	135.4
29°	3785.5	3717.6	3596.7	3427.1	3222.9	2997.9	2715.1	2396.2	2044.0	1668.8	124.8
30°	3748.9	3679.6	3564.9	3399.7	3196.8	2973.8	2683.8	2354.8	1998.8	1616.2	115.1
31°	3669.0	3610.2	3499.4	3333.7	3139.0	2917.4	2613.0	2286.8	1921.7	1545.9	104.1
32°	3563.5	3505.6	3396.8	3246.9	3049.0	2825.4	2516.1	2180.8	1831.1	1440.9	93.0
33°	3405.0	3371.7	3273.9	3130.8	2932.9	2693.9	2386.1	2054.2	1702.0	1324.3	83.3
34°	3244.5	3202.6	3134.2	2977.7	2764.7	2526.3	2216.5	1879.3	1544.5	1193.8	74.2
35°	3059.5	3034.5	2927.1	2801.8	2587.9	2344.2	2036.3	1709.2	1360.9	1048.3	65.0
36°	2880.3	2841.8	2719.4	2587.0	2379.3	2115.8	1811.8	1504.5	1202.4	911.9	55.4
37°	2620.2	2561.4	2474.2	2334.5	2091.7	1867.2	1589.8	1304.6	1007.3	764.5	44.8
38°	2314.3	2286.8	2165.9	2025.2	1824.4	1611.4	1336.8	1095.0	831.0	638.3	34.2
39°	1953.5	1953.0	1837.4	1735.7	1539.2	1347.4	1099.8	888.8	686.0	514.0	26.5
40°	1647.6	1590.7	1519.4	1391.8	1241.0	1078.1	861.4	695.6	532.3	414.3	20.7
42.5°	863.8	858.9	817.0	721.2	636.9	541.0	430.2	358.4	280.4	228.3	13.0
45°	370.9	373.4	344.4	330.0	297.2	257.3	217.3	181.1	155.1	125.7	7.7
47.5°	93.9	90.1	89.1	92.5	92.5	89.6	80.5	75.6	69.9	64.1	4.3
50°	40.5	39.5	38.5	38.5	36.1	34.7	32.3	29.4	27.0	24.1	1.9
52.5°	14.9	15.4	15.9	15.4	15.4	14.9	14.9	14.5	13.0	11.6	1.0
55°	4.8	4.8	4.8	5.3	5.3	5.8	5.8	5.8	5.8	5.3	0.0
57.5°	1.0	1.0	1.4	1.4	1.4	1.4	1.4	1.4	1.9	1.9	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°	18.3	18.3	18.3	18.3	18.3	18.3
2.5°	21.2	18.8	15.9	13.5	13.0	12.5
5°	23.6	17.3	13.0	10.6	9.6	9.2
7.5°	25.5	15.9	10.6	7.7	6.7	6.3
10°	26.5	14.0	8.7	5.8	4.3	4.3
12.5°	27.0	12.0	6.3	3.9	2.4	2.4
15°	26.5	10.1	4.8	1.9	0.5	0.5
17.5°	24.1	8.2	2.9	0.5	0.0	0.0
20°	20.7	6.7	1.9	0.0	0.0	0.0
21°	19.8	5.8	1.4	0.0	0.0	0.0
22°	18.3	5.3	1.0	0.0	0.0	0.0
23°	16.9	4.8	1.0	0.0	0.0	0.0
24°	15.4	4.3	0.5	0.0	0.0	0.0
25°	14.5	3.9	0.5	0.0	0.0	0.0
26°	13.5	3.4	0.5	0.0	0.0	0.0
27°	12.0	2.9	0.0	0.0	0.0	0.0
28°	11.1	2.4	0.0	0.0	0.0	0.0
29°	9.6	1.9	0.0	0.0	0.0	0.0
30°	8.2	1.4	0.0	0.0	0.0	0.0
31°	6.7	1.4	0.0	0.0	0.0	0.0
32°	5.8	1.0	0.0	0.0	0.0	0.0
33°	4.8	1.0	0.0	0.0	0.0	0.0
34°	4.3	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°	1.9	0.5	0.0	0.0	0.0	0.0
39°	1.4	0.0	0.0	0.0	0.0	0.0
40°	1.4	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	1.4
52.5°	0.0	1.0	0.5	0.5	1.4	1.4
55°	0.5	1.0	0.5	1.0	1.9	1.9
57.5°	0.5	1.0	1.0	1.4	1.9	2.4
60°	1.0	1.4	1.4	1.4	2.4	2.4
62.5°	1.0	1.4	1.9	1.9	2.4	2.9
65°	1.0	1.9	1.9	1.9	2.4	2.9
67.5°	1.4	1.9	1.9	1.9	2.4	2.9
70°	1.4	1.9	1.9	1.9	2.4	2.4
72.5°	1.4	1.9	1.4	1.9	1.9	2.4
75°	1.4	1.9	1.4	1.4	1.9	1.9
77.5°	1.0	1.4	1.4	1.0	1.4	1.4
80°	1.0	1.4	1.0	1.0	1.4	1.4



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	1.0	1.4	1.0	0.5	1.0	1.0
85°	1.0	1.4	1.0	0.5	0.5	0.5
87.5°	1.0	1.4	1.0	0.5	0.0	0.5
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)