

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: P1344023

Luminaire Tested: P3A13R209740DE010 E3A301GPH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1344023
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: P3A13R209740DE010 E3A301GPH
Description: 3in Adjustable LED luminaire with, R20 optic, 4000K CCT AND, 97CRI , E3A301GPH TRIM
Light Source: -
Ballast/Driver: -

Summary

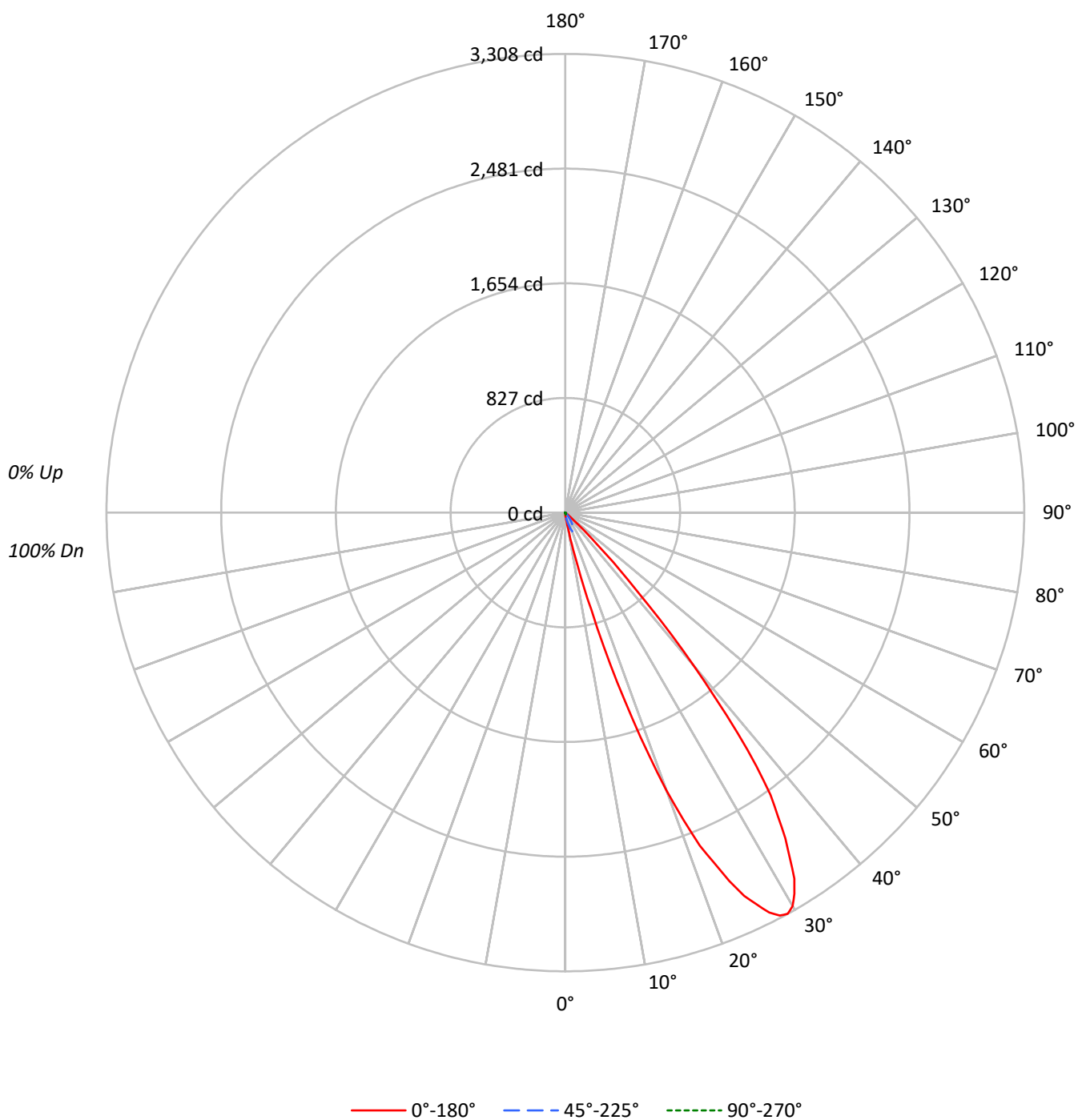
Lumens per Lamp: N/A
Luminaire Lumens: 464.0 lumens
Efficiency: N/A
Efficacy: 31.8 lumens/watt
Spacing Criteria (0/90/45): 2.3 / 0.53 / 1.19
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	8056	6031	3346	2047	1761
10°	25406	10487	2716	1136	846
15°	164564	19410	1998	386	91
20°	496670	33206	1377	0	0
25°	737607	33510	823	0	0
30°	829469	25472	329	0	0
35°	715675	15205	214	0	0
40°	412115	5181	0	0	0
45°	100507	2078	124	0	124
50°	12076	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: 101158 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.1	0.5
10°-20°	43.0	9.3
20°-30°	187.4	40.4
30°-40°	188.7	40.7
40°-50°	37.9	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°	232.6	50.1
0°-40°	421.3	90.8
0°-60°	461.1	99.4
0°-90°	464.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	464.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	16	16	16	16	16	
5°	37	27	15	9	8	6
15°	725	86	9	2	0	284
25°	3049	138	3	0	0	1375
35°	2674	57	1	0	0	1591
45°	324	7	0	0	0	353
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°	24.0	24.0	23.6	23.6	23.2	23.6	22.7	23.2	23.2	22.7	20.6
5°	36.6	37.5	37.0	37.0	36.6	37.0	36.2	35.4	34.5	34.5	27.4
7.5°	60.2	59.8	58.9	59.4	58.1	57.3	56.4	56.0	53.5	52.2	35.8
10°	114.1	116.6	114.5	114.1	106.5	106.1	101.0	93.9	87.6	84.2	47.1
12.5°	314.0	327.5	306.5	296.4	290.5	267.7	258.0	233.2	209.2	191.1	59.8
15°	724.9	758.1	715.6	718.6	683.2	618.4	561.6	512.7	455.1	397.0	85.5
17.5°	1420.3	1393.4	1370.2	1331.1	1259.1	1163.9	1041.5	917.3	809.9	697.5	119.1
20°	2128.4	2104.4	2051.7	1966.3	1874.5	1733.5	1587.9	1401.4	1220.8	1051.6	142.3
21°	2372.1	2364.1	2277.8	2225.2	2083.7	1949.0	1781.1	1581.5	1378.2	1177.8	146.1
22°	2589.7	2541.7	2495.4	2417.6	2277.0	2130.5	1943.6	1733.5	1512.9	1290.2	146.5
23°	2740.4	2718.5	2674.8	2586.8	2447.0	2274.9	2077.8	1858.1	1625.7	1369.8	145.2
24°	2907.1	2879.4	2815.4	2712.7	2571.6	2401.6	2176.8	1958.7	1706.1	1436.7	141.9
25°	3048.6	3005.2	2929.4	2818.7	2664.7	2489.1	2263.1	2023.5	1762.1	1481.8	138.5
26°	3140.3	3116.8	3019.5	2899.1	2734.1	2553.1	2322.4	2073.2	1798.3	1502.4	133.0
27°	3235.9	3192.5	3097.0	2958.5	2779.6	2594.8	2356.1	2097.2	1811.0	1503.2	126.3
28°	3290.6	3243.5	3135.3	2989.6	2809.1	2617.9	2375.5	2104.8	1808.4	1490.2	118.3
29°	3307.9	3248.5	3142.9	2994.7	2816.2	2619.6	2372.5	2093.8	1786.1	1458.2	109.0
30°	3275.9	3215.3	3115.1	2970.7	2793.5	2598.6	2345.2	2057.6	1746.6	1412.3	100.6
31°	3206.0	3154.7	3057.8	2913.0	2743.0	2549.3	2283.3	1998.3	1679.2	1350.9	90.9
32°	3113.8	3063.3	2968.2	2837.3	2664.2	2468.9	2198.7	1905.7	1600.1	1259.1	81.2
33°	2975.3	2946.3	2860.8	2735.8	2562.8	2354.0	2085.0	1795.0	1487.2	1157.2	72.8
34°	2835.2	2798.5	2738.8	2601.9	2415.9	2207.5	1936.8	1642.2	1349.6	1043.1	64.8
35°	2673.5	2651.6	2557.7	2448.3	2261.4	2048.4	1779.4	1493.6	1189.2	916.0	56.8
36°	2516.9	2483.2	2376.3	2260.5	2079.1	1848.8	1583.2	1314.7	1050.7	796.9	48.4
37°	2289.6	2238.2	2162.0	2040.0	1827.8	1631.6	1389.2	1140.0	880.2	668.1	39.1
38°	2022.3	1998.3	1892.6	1769.7	1594.2	1408.1	1168.2	956.8	726.2	557.8	29.9
39°	1707.0	1706.6	1605.5	1516.7	1345.0	1177.4	961.0	776.7	599.4	449.2	23.2
40°	1439.7	1390.0	1327.7	1216.1	1084.4	942.1	752.7	607.9	465.2	362.0	18.1
42.5°	754.8	750.6	713.9	630.2	556.5	472.7	375.9	313.2	245.0	199.5	11.4
45°	324.1	326.2	301.0	288.4	259.7	224.8	189.9	158.3	135.5	109.9	6.7
47.5°	82.1	78.7	77.9	80.8	80.8	78.3	70.3	66.1	61.0	56.0	3.8
50°	35.4	34.5	33.7	33.7	31.6	30.3	28.2	25.7	23.6	21.0	1.7
52.5°	13.0	13.5	13.9	13.5	13.5	13.0	13.0	12.6	11.4	10.1	0.8
55°	4.2	4.2	4.2	4.6	4.6	5.1	5.1	5.1	5.1	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	11.4	10.9
5°	20.6	15.2	11.4	9.3	8.4	8.0
7.5°	22.3	13.9	9.3	6.7	5.9	5.5
10°	23.2	12.2	7.6	5.1	3.8	3.8
12.5°	23.6	10.5	5.5	3.4	2.1	2.1
15°	23.2	8.8	4.2	1.7	0.4	0.4
17.5°	21.0	7.2	2.5	0.4	0.0	0.0
20°	18.1	5.9	1.7	0.0	0.0	0.0
21°	17.3	5.1	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°	13.5	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°	7.2	1.3	0.0	0.0	0.0	0.0
31°	5.9	1.3	0.0	0.0	0.0	0.0
32°	5.1	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)