

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: P1344007

Luminaire Tested: P3A13R209735DE010 E3A301GPH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1344007
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: P3A13R209735DE010 E3A301GPH
Description: 3in Adjustable LED luminaire with, R20 optic, 3500K CCT AND, 97CRI , E3A301GPH TRIM
Light Source: -
Ballast/Driver: -

Summary

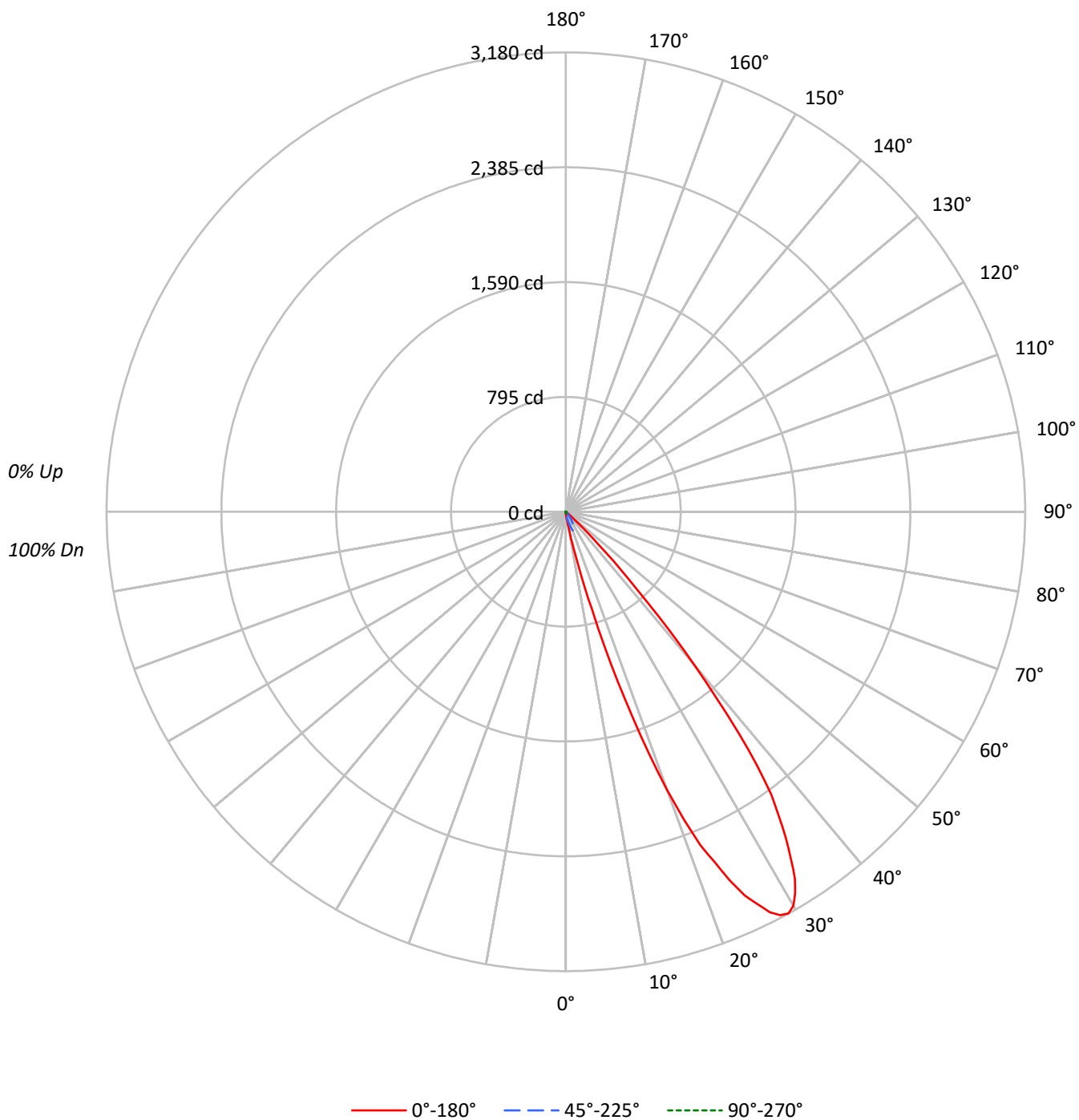
Lumens per Lamp: N/A
Luminaire Lumens: 446.0 lumens
Efficiency: N/A
Efficacy: 30.5 lumens/watt
Spacing Criteria (0/90/45): 2.29 / 0.53 / 1.19
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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

TEST NUMBER: P1344007

CATALOG NUMBER: P3A13R209735DE010 E3A301GPH

Luminous Intensity Polar Plot



TEST NUMBER: P1344007

CATALOG NUMBER: P3A13R209735DE010 E3A301GPH

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°	3377	3377	3377	3377	3377
5°	7748	5789	3214	1959	1695
10°	24426	10087	2605	1091	802
15°	158185	18638	1930	363	91
20°	477395	31923	1330	0	0
25°	708984	32203	774	0	0
30°	797287	24485	304	0	0
35°	687916	14616	214	0	0
40°	396114	4981	0	0	0
45°	96630	2016	124	0	124
50°	11599	546	136	136	409
55°	1529	0	306	306	612
60°	175	0	526	526	877
65°	208	208	830	830	1245
70°	256	256	1026	1026	1282
75°	0	339	1356	1017	1356
80°	0	505	1515	1010	1515
85°	0	1006	3019	1006	1006

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°

Vertical Angle: 45°

Luminance: 97250 cd/sqm

TEST NUMBER: P1344007

CATALOG NUMBER: P3A13R209735DE010 E3A301GPH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.1	0.5
10°-20°	41.3	9.3
20°-30°	180.2	40.4
30°-40°	181.4	40.7
40°-50°	36.4	8.2
50°-60°	1.8	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°	223.5	50.1
0°-40°	405.0	90.8
0°-60°	443.2	99.4
0°-90°	446.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	446.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	15	15	15	15	15	
5°	35	26	15	9	8	6
15°	697	82	8	2	0	273
25°	2930	133	3	0	0	1321
35°	2570	55	1	0	0	1529
45°	312	6	0	0	0	339
55°	4	0	1	1	2	7
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	

TEST NUMBER: P1344007

CATALOG NUMBER: P3A13R209735DE010 E3A301GPH

CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4
2.5°	23.1	23.1	22.7	22.7	22.3	22.7	21.8	22.3	22.3	21.8	19.8
5°	35.2	36.0	35.6	35.6	35.2	35.6	34.8	34.0	33.2	33.2	26.3
7.5°	57.9	57.5	56.6	57.1	55.8	55.0	54.2	53.8	51.4	50.2	34.4
10°	109.7	112.1	110.1	109.7	102.4	102.0	97.1	90.2	84.2	80.9	45.3
12.5°	301.9	314.8	294.6	284.9	279.2	257.3	248.0	224.2	201.1	183.7	57.5
15°	696.8	728.7	687.9	690.7	656.7	594.4	539.8	492.8	437.4	381.6	82.1
17.5°	1365.2	1339.3	1317.1	1279.4	1210.2	1118.8	1001.0	881.7	778.5	670.5	114.5
20°	2045.8	2022.7	1972.2	1890.0	1801.8	1666.3	1526.3	1347.0	1173.4	1010.8	136.8
21°	2280.1	2272.4	2189.4	2138.9	2002.9	1873.4	1712.0	1520.2	1324.8	1132.1	140.4
22°	2489.3	2443.1	2398.6	2323.8	2188.6	2047.8	1868.2	1666.3	1454.2	1240.2	140.8
23°	2634.1	2613.1	2571.0	2486.4	2352.1	2186.6	1997.2	1786.0	1562.7	1316.7	139.6
24°	2794.4	2767.7	2706.2	2607.4	2471.9	2308.4	2092.3	1882.7	1640.0	1381.0	136.4
25°	2930.3	2888.6	2815.8	2709.4	2561.3	2392.6	2175.3	1945.0	1693.8	1424.3	133.1
26°	3018.5	2995.9	2902.4	2786.7	2628.1	2454.1	2232.3	1992.8	1728.6	1444.1	127.9
27°	3110.4	3068.7	2976.8	2843.7	2671.8	2494.1	2264.7	2015.9	1740.7	1444.9	121.4
28°	3163.0	3117.7	3013.7	2873.7	2700.1	2516.4	2283.3	2023.1	1738.3	1432.4	113.7
29°	3179.6	3122.5	3021.0	2878.5	2707.0	2518.0	2280.5	2012.6	1716.8	1401.6	104.8
30°	3148.8	3090.5	2994.2	2855.5	2685.1	2497.8	2254.2	1977.8	1678.8	1357.5	96.7
31°	3081.6	3032.3	2939.2	2800.0	2636.6	2450.4	2194.7	1920.8	1614.1	1298.5	87.4
32°	2993.0	2944.5	2853.0	2727.2	2560.9	2373.1	2113.4	1831.7	1538.0	1210.2	78.1
33°	2859.9	2832.0	2749.8	2629.7	2463.4	2262.7	2004.1	1725.3	1429.5	1112.3	70.0
34°	2725.2	2690.0	2632.5	2501.0	2322.2	2121.9	1861.7	1578.5	1297.2	1002.7	62.3
35°	2569.8	2548.7	2458.5	2353.3	2173.7	1968.9	1710.4	1435.6	1143.1	880.5	54.6
36°	2419.3	2386.9	2284.1	2172.9	1998.5	1777.1	1521.8	1263.7	1010.0	766.0	46.5
37°	2200.8	2151.4	2078.2	1960.8	1756.9	1568.3	1335.3	1095.7	846.1	642.1	37.6
38°	1943.8	1920.8	1819.2	1701.1	1532.3	1353.5	1122.8	919.7	698.0	536.1	28.7
39°	1640.8	1640.4	1543.3	1457.9	1292.8	1131.7	923.8	746.5	576.2	431.7	22.3
40°	1383.8	1336.1	1276.2	1169.0	1042.3	905.6	723.5	584.3	447.1	348.0	17.4
42.5°	725.5	721.5	686.2	605.7	534.9	454.4	361.3	301.0	235.5	191.8	10.9
45°	311.6	313.6	289.3	277.2	249.7	216.1	182.5	152.1	130.3	105.6	6.5
47.5°	78.9	75.7	74.9	77.7	77.7	75.3	67.6	63.5	58.7	53.8	3.6
50°	34.0	33.2	32.4	32.4	30.3	29.1	27.1	24.7	22.7	20.2	1.6
52.5°	12.5	12.9	13.4	12.9	12.9	12.5	12.5	12.1	10.9	9.7	0.8
55°	4.0	4.0	4.0	4.5	4.5	4.9	4.9	4.9	4.9	4.5	0.0
57.5°	0.8	0.8	1.2	1.2	1.2	1.2	1.2	1.2	1.6	1.6	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



TEST NUMBER: P1344007

CATALOG NUMBER: P3A13R209735DE010 E3A301GPH

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

TEST NUMBER: P1344007

CATALOG NUMBER: P3A13R209735DE010 E3A301GPH

CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	15.4	15.4	15.4	15.4	15.4	15.4
2.5°	17.8	15.8	13.4	11.3	10.9	10.5
5°	19.8	14.6	10.9	8.9	8.1	7.7
7.5°	21.4	13.4	8.9	6.5	5.7	5.3
10°	22.3	11.7	7.3	4.9	3.6	3.6
12.5°	22.7	10.1	5.3	3.2	2.0	2.0
15°	22.3	8.5	4.0	1.6	0.4	0.4
17.5°	20.2	6.9	2.4	0.4	0.0	0.0
20°	17.4	5.7	1.6	0.0	0.0	0.0
21°	16.6	4.9	1.2	0.0	0.0	0.0
22°	15.4	4.5	0.8	0.0	0.0	0.0
23°	14.2	4.0	0.8	0.0	0.0	0.0
24°	12.9	3.6	0.4	0.0	0.0	0.0
25°	12.1	3.2	0.4	0.0	0.0	0.0
26°	11.3	2.8	0.4	0.0	0.0	0.0
27°	10.1	2.4	0.0	0.0	0.0	0.0
28°	9.3	2.0	0.0	0.0	0.0	0.0
29°	8.1	1.6	0.0	0.0	0.0	0.0
30°	6.9	1.2	0.0	0.0	0.0	0.0
31°	5.7	1.2	0.0	0.0	0.0	0.0
32°	4.9	0.8	0.0	0.0	0.0	0.0
33°	4.0	0.8	0.0	0.0	0.0	0.0
34°	3.6	0.8	0.0	0.0	0.0	0.0
35°	3.2	0.8	0.0	0.0	0.0	0.0
36°	2.4	0.4	0.0	0.0	0.0	0.0
37°	2.0	0.4	0.0	0.0	0.0	0.0
38°	1.6	0.4	0.0	0.0	0.0	0.0
39°	1.2	0.0	0.0	0.0	0.0	0.0
40°	1.2	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	1.2
52.5°	0.0	0.8	0.4	0.4	1.2	1.2
55°	0.4	0.8	0.4	0.8	1.6	1.6
57.5°	0.4	0.8	0.8	1.2	1.6	2.0
60°	0.8	1.2	1.2	1.2	2.0	2.0
62.5°	0.8	1.2	1.6	1.6	2.0	2.4
65°	0.8	1.6	1.6	1.6	2.0	2.4
67.5°	1.2	1.6	1.6	1.6	2.0	2.4
70°	1.2	1.6	1.6	1.6	2.0	2.0
72.5°	1.2	1.6	1.2	1.6	1.6	2.0
75°	1.2	1.6	1.2	1.2	1.6	1.6
77.5°	0.8	1.2	1.2	0.8	1.2	1.2
80°	0.8	1.2	0.8	0.8	1.2	1.2



TEST NUMBER: P1344007

CATALOG NUMBER: P3A13R209735DE010 E3A301GPH

CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.8	1.2	0.8	0.4	0.8	0.8
85°	0.8	1.2	0.8	0.4	0.4	0.4
87.5°	0.8	1.2	0.8	0.4	0.0	0.4
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)