

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: P1344071

Luminaire Tested: P3A13R209835DE010 E3A301GPH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1344071
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: P3A13R209835DE010 E3A301GPH
Description: 3in Adjustable LED luminaire with, R20 optic, 3500K CCT AND, 98CRI , E3A301GPH TRIM
Light Source: -
Ballast/Driver: -

Summary

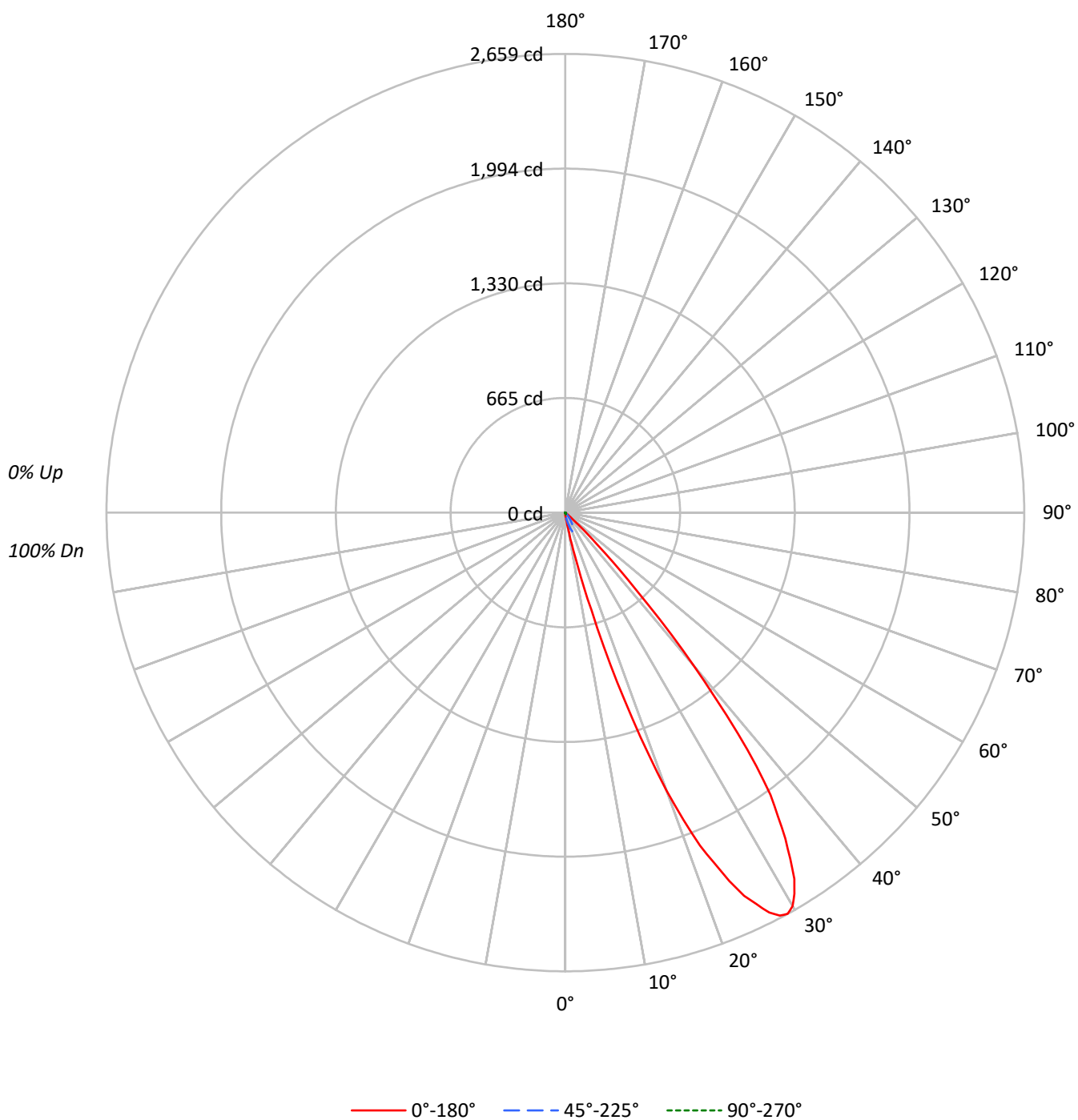
Lumens per Lamp: N/A
Luminaire Lumens: 373.0 lumens
Efficiency: N/A
Efficacy: 25.7 lumens/watt
Spacing Criteria (0/90/45): 2.29 / 0.53 / 1.19
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.5
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: P1344071

CATALOG NUMBER: P3A13R209835DE010 E3A301GPH

Luminous Intensity Polar Plot



TEST NUMBER: P1344071

CATALOG NUMBER: P3A13R209835DE010 E3A301GPH

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	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°	2829	2829	2829	2829	2829
5°	6471	4843	2685	1629	1409
10°	20418	8439	2182	913	668
15°	132282	15596	1612	318	68
20°	399245	26696	1097	0	0
25°	592946	26929	653	0	0
30°	666786	20484	253	0	0
35°	575324	12234	187	0	0
40°	331278	4179	0	0	0
45°	80815	1675	93	0	93
50°	9688	478	102	102	341
55°	1300	0	268	268	535
60°	132	0	439	439	746
65°	156	156	726	726	1038
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: 81342 cd/sqm

TEST NUMBER: P1344071

CATALOG NUMBER: P3A13R209835DE010 E3A301GPH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.7	0.5
10°-20°	34.6	9.3
20°-30°	150.7	40.4
30°-40°	151.7	40.7
40°-50°	30.4	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°	187.0	50.1
0°-40°	338.7	90.8
0°-60°	370.6	99.4
0°-90°	373.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	373.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	13	13	13	13	13	
5°	29	22	12	7	6	5
15°	583	69	7	1	0	228
25°	2451	111	3	0	0	1105
35°	2149	46	1	0	0	1279
45°	261	5	0	0	0	284
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	

TEST NUMBER: P1344071

CATALOG NUMBER: P3A13R209835DE010 E3A301GPH

CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9
2.5°	19.3	19.3	19.0	19.0	18.6	19.0	18.3	18.6	18.6	18.3	16.6
5°	29.4	30.1	29.8	29.8	29.4	29.8	29.1	28.4	27.7	27.7	22.0
7.5°	48.4	48.1	47.4	47.7	46.7	46.0	45.3	45.0	43.0	42.0	28.8
10°	91.7	93.7	92.0	91.7	85.6	85.3	81.2	75.5	70.4	67.7	37.9
12.5°	252.4	263.3	246.4	238.2	233.5	215.2	207.4	187.5	168.2	153.6	48.1
15°	582.7	609.5	575.3	577.6	549.2	497.1	451.4	412.2	365.8	319.1	68.7
17.5°	1141.8	1120.1	1101.5	1070.0	1012.2	935.7	837.2	737.4	651.1	560.7	95.8
20°	1710.9	1691.7	1649.4	1580.7	1506.9	1393.5	1276.4	1126.5	981.4	845.3	114.4
21°	1906.9	1900.5	1831.1	1788.8	1675.1	1566.8	1431.8	1271.4	1107.9	946.8	117.4
22°	2081.8	2043.3	2006.0	1943.4	1830.4	1712.6	1562.4	1393.5	1216.2	1037.2	117.8
23°	2203.0	2185.4	2150.2	2079.5	1967.1	1828.7	1670.3	1493.7	1306.9	1101.2	116.7
24°	2337.0	2314.7	2263.2	2180.6	2067.3	1930.6	1749.9	1574.6	1371.5	1155.0	114.0
25°	2450.7	2415.8	2354.9	2265.9	2142.1	2001.0	1819.2	1626.7	1416.5	1191.2	111.3
26°	2524.5	2505.5	2427.3	2330.6	2197.9	2052.4	1866.9	1666.6	1445.6	1207.7	106.9
27°	2601.3	2566.4	2489.6	2378.3	2234.5	2085.9	1894.0	1685.9	1455.8	1208.4	101.5
28°	2645.3	2607.4	2520.4	2403.3	2258.1	2104.5	1909.6	1692.0	1453.8	1197.9	95.1
29°	2659.1	2611.4	2526.5	2407.4	2263.9	2105.9	1907.2	1683.2	1435.8	1172.2	87.6
30°	2633.4	2584.7	2504.2	2388.1	2245.6	2088.9	1885.2	1654.1	1404.0	1135.3	80.9
31°	2577.2	2536.0	2458.1	2341.7	2205.0	2049.3	1835.5	1606.4	1349.9	1085.9	73.1
32°	2503.1	2462.5	2386.1	2280.8	2141.7	1984.7	1767.5	1531.9	1286.3	1012.2	65.3
33°	2391.8	2368.5	2299.8	2199.3	2060.2	1892.3	1676.1	1442.9	1195.6	930.3	58.5
34°	2279.1	2249.7	2201.6	2091.6	1942.1	1774.6	1557.0	1320.1	1084.9	838.6	52.1
35°	2149.2	2131.6	2056.1	1968.1	1817.9	1646.7	1430.4	1200.6	956.0	736.4	45.7
36°	2023.3	1996.2	1910.3	1817.2	1671.4	1486.3	1272.7	1056.8	844.6	640.6	38.9
37°	1840.6	1799.3	1738.0	1639.9	1469.3	1311.6	1116.7	916.4	707.6	537.0	31.5
38°	1625.7	1606.4	1521.4	1422.6	1281.5	1131.9	939.1	769.2	583.7	448.4	24.0
39°	1372.2	1371.9	1290.7	1219.3	1081.2	946.5	772.6	624.3	481.9	361.1	18.6
40°	1157.3	1117.4	1067.3	977.6	871.7	757.3	605.1	488.6	373.9	291.0	14.6
42.5°	606.8	603.4	573.9	506.6	447.4	380.0	302.2	251.8	196.9	160.4	9.1
45°	260.6	262.3	242.0	231.8	208.8	180.7	152.6	127.2	109.0	88.3	5.4
47.5°	66.0	63.3	62.6	65.0	65.0	62.9	56.5	53.1	49.1	45.0	3.0
50°	28.4	27.7	27.1	27.1	25.4	24.4	22.7	20.6	19.0	16.9	1.4
52.5°	10.5	10.8	11.2	10.8	10.8	10.5	10.5	10.2	9.1	8.1	0.7
55°	3.4	3.4	3.4	3.7	3.7	4.1	4.1	4.1	4.1	3.7	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°	12.9	12.9	12.9	12.9	12.9	12.9
2.5°	14.9	13.2	11.2	9.5	9.1	8.8
5°	16.6	12.2	9.1	7.4	6.8	6.4
7.5°	17.9	11.2	7.4	5.4	4.7	4.4
10°	18.6	9.8	6.1	4.1	3.0	3.0
12.5°	19.0	8.5	4.4	2.7	1.7	1.7
15°	18.6	7.1	3.4	1.4	0.3	0.3
17.5°	16.9	5.8	2.0	0.3	0.0	0.0
20°	14.6	4.7	1.4	0.0	0.0	0.0
21°	13.9	4.1	1.0	0.0	0.0	0.0
22°	12.9	3.7	0.7	0.0	0.0	0.0
23°	11.8	3.4	0.7	0.0	0.0	0.0
24°	10.8	3.0	0.3	0.0	0.0	0.0
25°	10.2	2.7	0.3	0.0	0.0	0.0
26°	9.5	2.4	0.3	0.0	0.0	0.0
27°	8.5	2.0	0.0	0.0	0.0	0.0
28°	7.8	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°	4.7	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°	3.0	0.7	0.0	0.0	0.0	0.0
35°	2.7	0.7	0.0	0.0	0.0	0.0
36°	2.0	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	2.0
65°	0.7	1.4	1.4	1.4	1.7	2.0
67.5°	1.0	1.4	1.4	1.4	1.7	2.0
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)