

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: P1340429

Luminaire Tested: P3A09R209727DE010 E3A301GPH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1340429
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: P3A09R209727DE010 E3A301GPH
Description: 3in Adjustable LED luminaire with, R20 optic, 2700K CCT AND, 97CRI , E3A301GPH TRIM
Light Source: -
Ballast/Driver: -

Summary

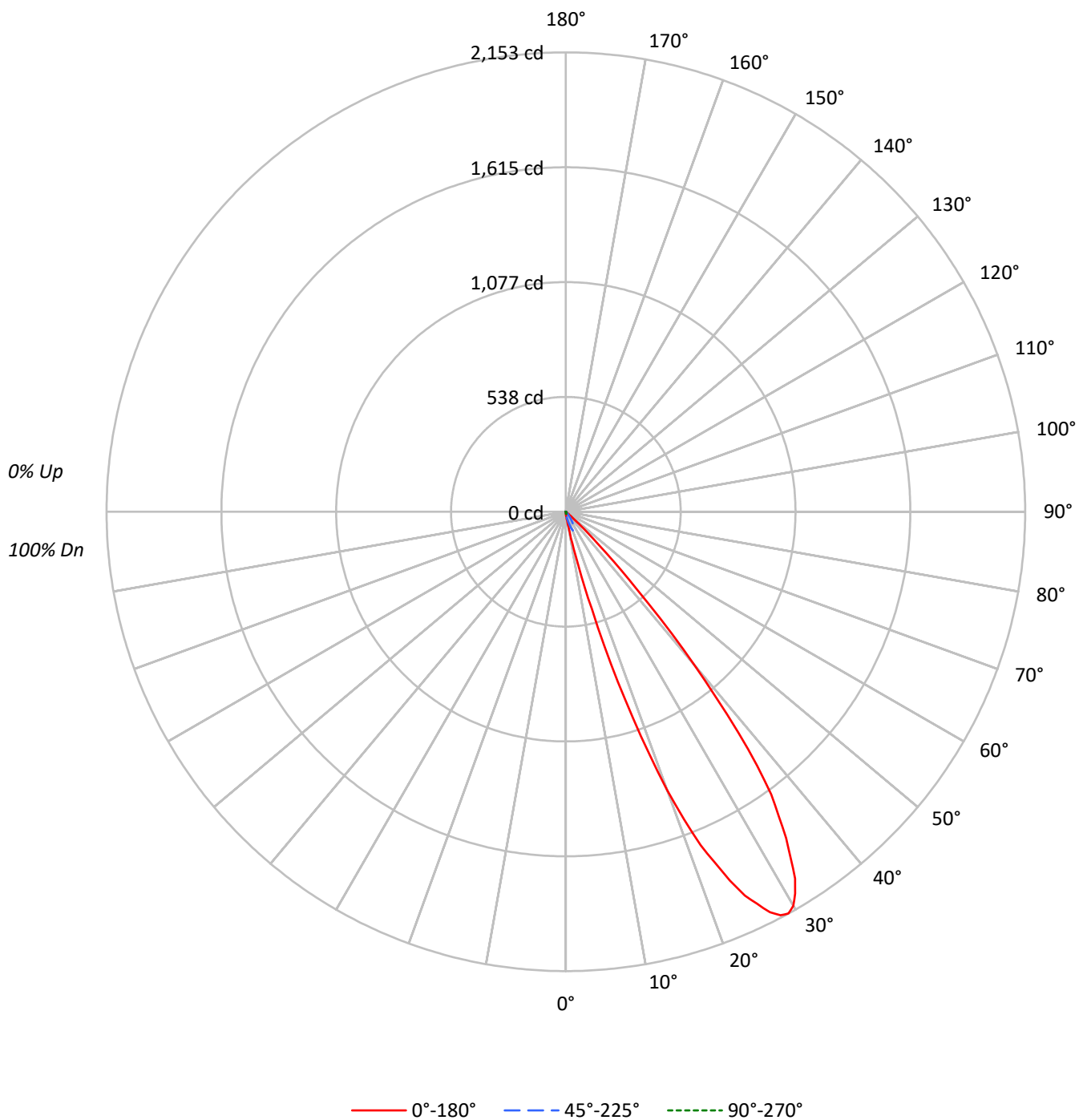
Lumens per Lamp: N/A
Luminaire Lumens: 302.0 lumens
Efficiency: N/A
Efficacy: 27.2 lumens/watt
Spacing Criteria (0/90/45): 2.29 / 0.54 / 1.19
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 11.1
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

TEST NUMBER: P1340429

CATALOG NUMBER: P3A09R209727DE010 E3A301GPH

Luminous Intensity Polar Plot



TEST NUMBER: P1340429

CATALOG NUMBER: P3A09R209727DE010 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	102	102	100
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	93	93	92
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	85	85	83
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	77	77	75
4	93	84	78	73	91	83	77	72	81	76	71	79	74	71	77	73	70	70	70	68
5	87	77	70	65	85	76	70	65	74	69	64	72	68	64	71	67	63	63	63	61
6	81	71	64	59	80	70	63	58	68	62	58	67	62	58	65	61	57	57	57	55
7	76	65	58	53	74	64	57	53	63	57	52	62	56	52	60	55	52	52	52	50
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	47	47	45
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	51	46	43	43	43	41
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	39	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	2281	2281	2281	2281	2281
5°	5239	3918	2179	1321	1145
10°	16544	6836	1759	735	557
15°	107106	12622	1317	250	68
20°	323265	21609	887	0	0
25°	480076	21800	532	0	0
30°	539881	16585	203	0	0
35°	465811	9905	134	0	0
40°	268217	3378	0	0	0
45°	65433	1364	93	0	93
50°	7846	375	102	102	273
55°	1032	0	191	191	421
60°	132	0	351	351	614
65°	156	156	571	571	830
70°	192	192	705	705	898
75°	0	254	932	678	932
80°	0	379	1010	631	1010
85°	0	755	2013	755	755

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°

Vertical Angle: 45°

Luminance: 65836 cd/sqm

TEST NUMBER: P1340429

CATALOG NUMBER: P3A09R209727DE010 E3A301GPH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.4	0.5
10°-20°	28.0	9.3
20°-30°	122.0	40.4
30°-40°	122.8	40.7
40°-50°	24.6	8.2
50°-60°	1.2	0.4
60°-70°	0.8	0.3
70°-80°	0.7	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°	151.4	50.1
0°-40°	274.2	90.8
0°-60°	300.1	99.4
0°-90°	302.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	302.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	10	10	10	10	10	
5°	24	18	10	6	5	4
15°	472	56	6	1	0	185
25°	1984	90	2	0	0	895
35°	1740	37	0	0	0	1035
45°	211	4	0	0	0	230
55°	3	0	0	0	1	5
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: P1340429

CATALOG NUMBER: P3A09R209727DE010 E3A301GPH

CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4
2.5°	15.6	15.6	15.3	15.3	15.1	15.3	14.8	15.1	15.1	14.8	13.4
5°	23.8	24.4	24.1	24.1	23.8	24.1	23.6	23.0	22.5	22.5	17.8
7.5°	39.2	38.9	38.4	38.6	37.8	37.3	36.7	36.4	34.8	34.0	23.3
10°	74.3	75.9	74.5	74.3	69.3	69.0	65.8	61.1	57.0	54.8	30.7
12.5°	204.4	213.2	199.5	192.9	189.1	174.3	168.0	151.8	136.2	124.4	38.9
15°	471.8	493.4	465.8	467.7	444.7	402.5	365.5	333.7	296.2	258.4	55.6
17.5°	924.4	906.9	891.8	866.3	819.5	757.6	677.8	597.0	527.1	454.0	77.5
20°	1385.3	1369.7	1335.4	1279.8	1220.1	1128.3	1033.5	912.1	794.6	684.4	92.6
21°	1543.9	1538.7	1482.5	1448.3	1356.2	1268.6	1159.2	1029.4	897.0	766.6	95.1
22°	1685.6	1654.3	1624.2	1573.5	1482.0	1386.6	1265.0	1128.3	984.7	839.8	95.3
23°	1783.6	1769.4	1740.9	1683.6	1592.7	1480.6	1352.4	1209.4	1058.1	891.5	94.5
24°	1892.1	1874.1	1832.4	1765.6	1673.8	1563.1	1416.8	1274.9	1110.5	935.1	92.3
25°	1984.2	1956.0	1906.7	1834.6	1734.3	1620.1	1472.9	1317.0	1146.9	964.4	90.1
26°	2043.9	2028.6	1965.3	1886.9	1779.5	1661.7	1511.6	1349.4	1170.5	977.9	86.6
27°	2106.1	2077.9	2015.7	1925.6	1809.1	1688.8	1533.5	1365.0	1178.7	978.4	82.2
28°	2141.7	2111.1	2040.6	1945.8	1828.3	1703.9	1546.1	1369.9	1177.0	969.9	77.0
29°	2153.0	2114.3	2045.6	1949.1	1833.0	1705.0	1544.2	1362.8	1162.5	949.1	71.0
30°	2132.2	2092.7	2027.5	1933.5	1818.2	1691.3	1526.4	1339.2	1136.8	919.2	65.5
31°	2086.7	2053.2	1990.2	1896.0	1785.3	1659.3	1486.1	1300.6	1092.9	879.2	59.2
32°	2026.7	1993.8	1931.9	1846.7	1734.1	1606.9	1431.0	1240.3	1041.4	819.5	52.9
33°	1936.5	1917.6	1862.0	1780.6	1668.0	1532.1	1357.1	1168.3	968.0	753.2	47.4
34°	1845.3	1821.5	1782.6	1693.5	1572.4	1436.8	1260.6	1068.8	878.4	678.9	42.2
35°	1740.1	1725.8	1664.7	1593.5	1471.9	1333.2	1158.1	972.1	774.0	596.2	37.0
36°	1638.2	1616.2	1546.6	1471.3	1353.2	1203.3	1030.5	855.7	683.9	518.7	31.5
37°	1490.2	1456.8	1407.2	1327.7	1189.6	1062.0	904.2	742.0	572.9	434.8	25.5
38°	1316.2	1300.6	1231.8	1151.8	1037.6	916.5	760.3	622.8	472.6	363.0	19.5
39°	1111.0	1110.7	1045.0	987.2	875.4	766.3	625.5	505.5	390.2	292.3	15.1
40°	937.0	904.7	864.2	791.5	705.8	613.2	489.9	395.6	302.8	235.6	11.8
42.5°	491.3	488.5	464.7	410.2	362.2	307.7	244.7	203.8	159.5	129.9	7.4
45°	211.0	212.3	195.9	187.7	169.0	146.3	123.6	103.0	88.2	71.5	4.4
47.5°	53.4	51.2	50.7	52.6	52.6	51.0	45.8	43.0	39.7	36.4	2.5
50°	23.0	22.5	21.9	21.9	20.5	19.7	18.4	16.7	15.3	13.7	1.1
52.5°	8.5	8.8	9.0	8.8	8.8	8.5	8.5	8.2	7.4	6.6	0.5
55°	2.7	2.7	2.7	3.0	3.0	3.3	3.3	3.3	3.3	3.0	0.0
57.5°	0.5	0.5	0.8	0.8	0.8	0.8	0.8	0.8	1.1	1.1	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



TEST NUMBER: P1340429

CATALOG NUMBER: P3A09R209727DE010 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	0.3
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

TEST NUMBER: P1340429

CATALOG NUMBER: P3A09R209727DE010 E3A301GPH

CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	10.4	10.4	10.4	10.4	10.4	10.4
2.5°	12.1	10.7	9.0	7.7	7.4	7.1
5°	13.4	9.9	7.4	6.0	5.5	5.2
7.5°	14.5	9.0	6.0	4.4	3.8	3.6
10°	15.1	7.9	4.9	3.3	2.5	2.5
12.5°	15.3	6.8	3.6	2.2	1.4	1.4
15°	15.1	5.8	2.7	1.1	0.3	0.3
17.5°	13.7	4.7	1.6	0.3	0.0	0.0
20°	11.8	3.8	1.1	0.0	0.0	0.0
21°	11.2	3.3	0.8	0.0	0.0	0.0
22°	10.4	3.0	0.5	0.0	0.0	0.0
23°	9.6	2.7	0.5	0.0	0.0	0.0
24°	8.8	2.5	0.3	0.0	0.0	0.0
25°	8.2	2.2	0.3	0.0	0.0	0.0
26°	7.7	1.9	0.3	0.0	0.0	0.0
27°	6.8	1.6	0.0	0.0	0.0	0.0
28°	6.3	1.4	0.0	0.0	0.0	0.0
29°	5.5	1.1	0.0	0.0	0.0	0.0
30°	4.7	0.8	0.0	0.0	0.0	0.0
31°	3.8	0.8	0.0	0.0	0.0	0.0
32°	3.3	0.5	0.0	0.0	0.0	0.0
33°	2.7	0.5	0.0	0.0	0.0	0.0
34°	2.5	0.5	0.0	0.0	0.0	0.0
35°	2.2	0.5	0.0	0.0	0.0	0.0
36°	1.6	0.3	0.0	0.0	0.0	0.0
37°	1.4	0.3	0.0	0.0	0.0	0.0
38°	1.1	0.3	0.0	0.0	0.0	0.0
39°	0.8	0.0	0.0	0.0	0.0	0.0
40°	0.8	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	0.5
50°	0.0	0.3	0.3	0.3	0.5	0.8
52.5°	0.0	0.5	0.3	0.3	0.8	0.8
55°	0.3	0.5	0.3	0.5	1.1	1.1
57.5°	0.3	0.5	0.5	0.8	1.1	1.4
60°	0.5	0.8	0.8	0.8	1.4	1.4
62.5°	0.5	0.8	1.1	1.1	1.4	1.6
65°	0.5	1.1	1.1	1.1	1.4	1.6
67.5°	0.8	1.1	1.1	1.1	1.4	1.6
70°	0.8	1.1	1.1	1.1	1.4	1.4
72.5°	0.8	1.1	0.8	1.1	1.1	1.4
75°	0.8	1.1	0.8	0.8	1.1	1.1
77.5°	0.5	0.8	0.8	0.5	0.8	0.8
80°	0.5	0.8	0.5	0.5	0.8	0.8



TEST NUMBER: P1340429

CATALOG NUMBER: P3A09R209727DE010 E3A301GPH

CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.5	0.8	0.5	0.3	0.5	0.5
85°	0.5	0.8	0.5	0.3	0.3	0.3
87.5°	0.5	0.8	0.5	0.3	0.0	0.3
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)