

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: P1340357

Luminaire Tested: P3A09R209030D2WDE010 E3A301GPH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1340357
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: P3A09R209030D2WDE010 E3A301GPH
Description: 3in Adjustable Dim to Warm LED luminaire with, R20 optic, 3000K CCT AND, 90CRI ,
E3A301GPH TRIM
Light Source: -
Ballast/Driver: -

Summary

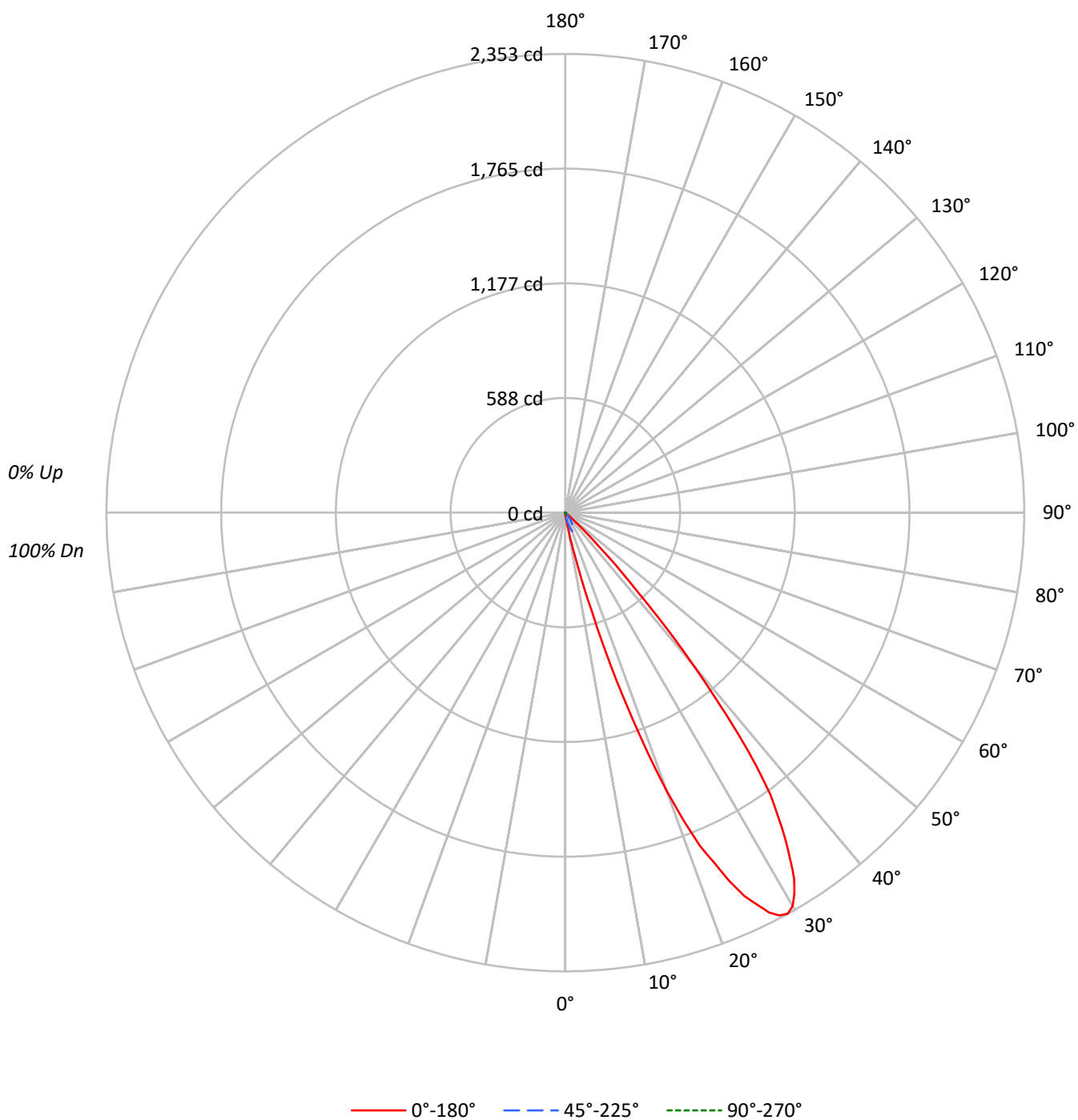
Lumens per Lamp: N/A
Luminaire Lumens: 330.0 lumens
Efficiency: N/A
Efficacy: 22.4 lumens/watt
Spacing Criteria (0/90/45): 2.29 / 0.53 / 1.19
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.7
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	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°	2500	2500	2500	2500	2500
5°	5723	4292	2377	1453	1255
10°	18058	7459	1937	802	601
15°	117027	13803	1430	272	68
20°	353227	23615	980	0	0
25°	524595	23832	581	0	0
30°	589914	18129	228	0	0
35°	508990	10815	161	0	0
40°	293092	3693	0	0	0
45°	71480	1489	93	0	93
50°	8563	409	102	102	307
55°	1147	0	229	229	459
60°	132	0	395	395	658
65°	156	156	623	623	934
70°	192	192	769	769	962
75°	0	254	1017	763	1017
80°	0	379	1137	758	1137
85°	0	755	2264	755	755

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°

Vertical Angle: 45°

Luminance: 71945 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.5	0.5
10°-20°	30.6	9.3
20°-30°	133.3	40.4
30°-40°	134.2	40.7
40°-50°	26.9	8.2
50°-60°	1.4	0.4
60°-70°	0.9	0.3
70°-80°	0.8	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°	165.4	50.1
0°-40°	299.6	90.8
0°-60°	327.9	99.4
0°-90°	330.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	330.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	11	11	11	11	11	
5°	26	20	11	7	6	4
15°	516	61	6	1	0	202
25°	2168	98	2	0	0	978
35°	1901	40	1	0	0	1131
45°	230	5	0	0	0	251
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	

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CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4
2.5°	17.1	17.1	16.8	16.8	16.5	16.8	16.2	16.5	16.5	16.2	14.7
5°	26.0	26.6	26.3	26.3	26.0	26.3	25.7	25.1	24.5	24.5	19.5
7.5°	42.8	42.5	41.9	42.2	41.3	40.7	40.1	39.8	38.0	37.1	25.4
10°	81.1	82.9	81.4	81.1	75.7	75.4	71.9	66.8	62.3	59.9	33.5
12.5°	223.3	232.9	218.0	210.8	206.6	190.4	183.5	165.9	148.8	135.9	42.5
15°	515.5	539.2	509.0	511.1	485.9	439.8	399.4	364.7	323.6	282.3	60.8
17.5°	1010.1	991.0	974.5	946.7	895.5	827.8	740.7	652.4	576.0	496.1	84.7
20°	1513.7	1496.6	1459.2	1398.4	1333.2	1232.9	1129.3	996.7	868.2	747.9	101.2
21°	1687.1	1681.4	1620.0	1582.6	1482.0	1386.2	1266.7	1124.8	980.2	837.7	103.9
22°	1841.8	1807.7	1774.8	1719.4	1619.4	1515.2	1382.3	1232.9	1076.0	917.6	104.2
23°	1949.0	1933.4	1902.3	1839.7	1740.3	1617.9	1477.8	1321.5	1156.2	974.2	103.3
24°	2067.6	2047.8	2002.3	1929.3	1829.0	1708.0	1548.1	1393.1	1213.4	1021.8	100.9
25°	2168.2	2137.3	2083.4	2004.7	1895.1	1770.3	1609.5	1439.2	1253.2	1053.8	98.5
26°	2233.4	2216.7	2147.5	2061.9	1944.5	1815.8	1651.7	1474.5	1279.0	1068.5	94.6
27°	2301.4	2270.6	2202.6	2104.1	1976.9	1845.4	1675.7	1491.6	1288.0	1069.1	89.8
28°	2340.3	2306.8	2229.8	2126.3	1997.8	1861.9	1689.4	1496.9	1286.2	1059.8	84.1
29°	2352.6	2310.4	2235.2	2129.8	2002.9	1863.1	1687.4	1489.2	1270.3	1037.1	77.5
30°	2329.8	2286.7	2215.5	2112.8	1986.7	1848.1	1667.9	1463.4	1242.2	1004.4	71.6
31°	2280.1	2243.6	2174.8	2071.8	1950.8	1813.1	1623.9	1421.2	1194.3	960.7	64.7
32°	2214.6	2178.6	2111.0	2017.9	1894.8	1755.9	1563.7	1355.3	1138.0	895.5	57.8
33°	2116.1	2095.4	2034.6	1945.7	1822.7	1674.2	1482.9	1276.6	1057.7	823.0	51.8
34°	2016.4	1990.3	1947.8	1850.5	1718.2	1570.0	1377.5	1167.9	959.8	741.9	46.1
35°	1901.4	1885.8	1819.1	1741.2	1608.3	1456.8	1265.5	1062.2	845.8	651.5	40.4
36°	1790.0	1766.1	1690.0	1607.7	1478.7	1314.9	1126.0	935.0	747.3	566.7	34.4
37°	1628.4	1591.8	1537.7	1450.8	1299.9	1160.4	988.0	810.7	626.0	475.1	27.8
38°	1438.3	1421.2	1346.0	1258.6	1133.8	1001.5	830.8	680.5	516.4	396.7	21.3
39°	1214.0	1213.7	1141.9	1078.7	956.5	837.4	683.5	552.4	426.3	319.4	16.5
40°	1023.9	988.6	944.3	864.9	771.2	670.0	535.3	432.3	330.8	257.5	12.9
42.5°	536.8	533.8	507.8	448.2	395.8	336.2	267.4	222.7	174.2	141.9	8.1
45°	230.5	232.0	214.1	205.1	184.7	159.9	135.0	112.6	96.4	78.1	4.8
47.5°	58.4	56.0	55.4	57.5	57.5	55.7	50.0	47.0	43.4	39.8	2.7
50°	25.1	24.5	24.0	24.0	22.5	21.6	20.1	18.3	16.8	15.0	1.2
52.5°	9.3	9.6	9.9	9.6	9.6	9.3	9.3	9.0	8.1	7.2	0.6
55°	3.0	3.0	3.0	3.3	3.3	3.6	3.6	3.6	3.6	3.3	0.0
57.5°	0.6	0.6	0.9	0.9	0.9	0.9	0.9	0.9	1.2	1.2	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°	11.4	11.4	11.4	11.4	11.4	11.4
2.5°	13.2	11.7	9.9	8.4	8.1	7.8
5°	14.7	10.8	8.1	6.6	6.0	5.7
7.5°	15.9	9.9	6.6	4.8	4.2	3.9
10°	16.5	8.7	5.4	3.6	2.7	2.7
12.5°	16.8	7.5	3.9	2.4	1.5	1.5
15°	16.5	6.3	3.0	1.2	0.3	0.3
17.5°	15.0	5.1	1.8	0.3	0.0	0.0
20°	12.9	4.2	1.2	0.0	0.0	0.0
21°	12.3	3.6	0.9	0.0	0.0	0.0
22°	11.4	3.3	0.6	0.0	0.0	0.0
23°	10.5	3.0	0.6	0.0	0.0	0.0
24°	9.6	2.7	0.3	0.0	0.0	0.0
25°	9.0	2.4	0.3	0.0	0.0	0.0
26°	8.4	2.1	0.3	0.0	0.0	0.0
27°	7.5	1.8	0.0	0.0	0.0	0.0
28°	6.9	1.5	0.0	0.0	0.0	0.0
29°	6.0	1.2	0.0	0.0	0.0	0.0
30°	5.1	0.9	0.0	0.0	0.0	0.0
31°	4.2	0.9	0.0	0.0	0.0	0.0
32°	3.6	0.6	0.0	0.0	0.0	0.0
33°	3.0	0.6	0.0	0.0	0.0	0.0
34°	2.7	0.6	0.0	0.0	0.0	0.0
35°	2.4	0.6	0.0	0.0	0.0	0.0
36°	1.8	0.3	0.0	0.0	0.0	0.0
37°	1.5	0.3	0.0	0.0	0.0	0.0
38°	1.2	0.3	0.0	0.0	0.0	0.0
39°	0.9	0.0	0.0	0.0	0.0	0.0
40°	0.9	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	0.6
50°	0.0	0.3	0.3	0.3	0.6	0.9
52.5°	0.0	0.6	0.3	0.3	0.9	0.9
55°	0.3	0.6	0.3	0.6	1.2	1.2
57.5°	0.3	0.6	0.6	0.9	1.2	1.5
60°	0.6	0.9	0.9	0.9	1.5	1.5
62.5°	0.6	0.9	1.2	1.2	1.5	1.8
65°	0.6	1.2	1.2	1.2	1.5	1.8
67.5°	0.9	1.2	1.2	1.2	1.5	1.8
70°	0.9	1.2	1.2	1.2	1.5	1.5
72.5°	0.9	1.2	0.9	1.2	1.2	1.5
75°	0.9	1.2	0.9	0.9	1.2	1.2
77.5°	0.6	0.9	0.9	0.6	0.9	0.9
80°	0.6	0.9	0.6	0.6	0.9	0.9



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.6	0.9	0.6	0.3	0.6	0.6
85°	0.6	0.9	0.6	0.3	0.3	0.3
87.5°	0.6	0.9	0.6	0.3	0.0	0.3
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)