

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: P1340541

Luminaire Tested: P3A09R209840DE010 E3A301GPH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1340541
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: P3A09R209840DE010 E3A301GPH
Description: 3in Adjustable LED luminaire with, R20 optic, 4000K CCT AND, 98CRI , E3A301GPH TRIM
Light Source: -
Ballast/Driver: -

Summary

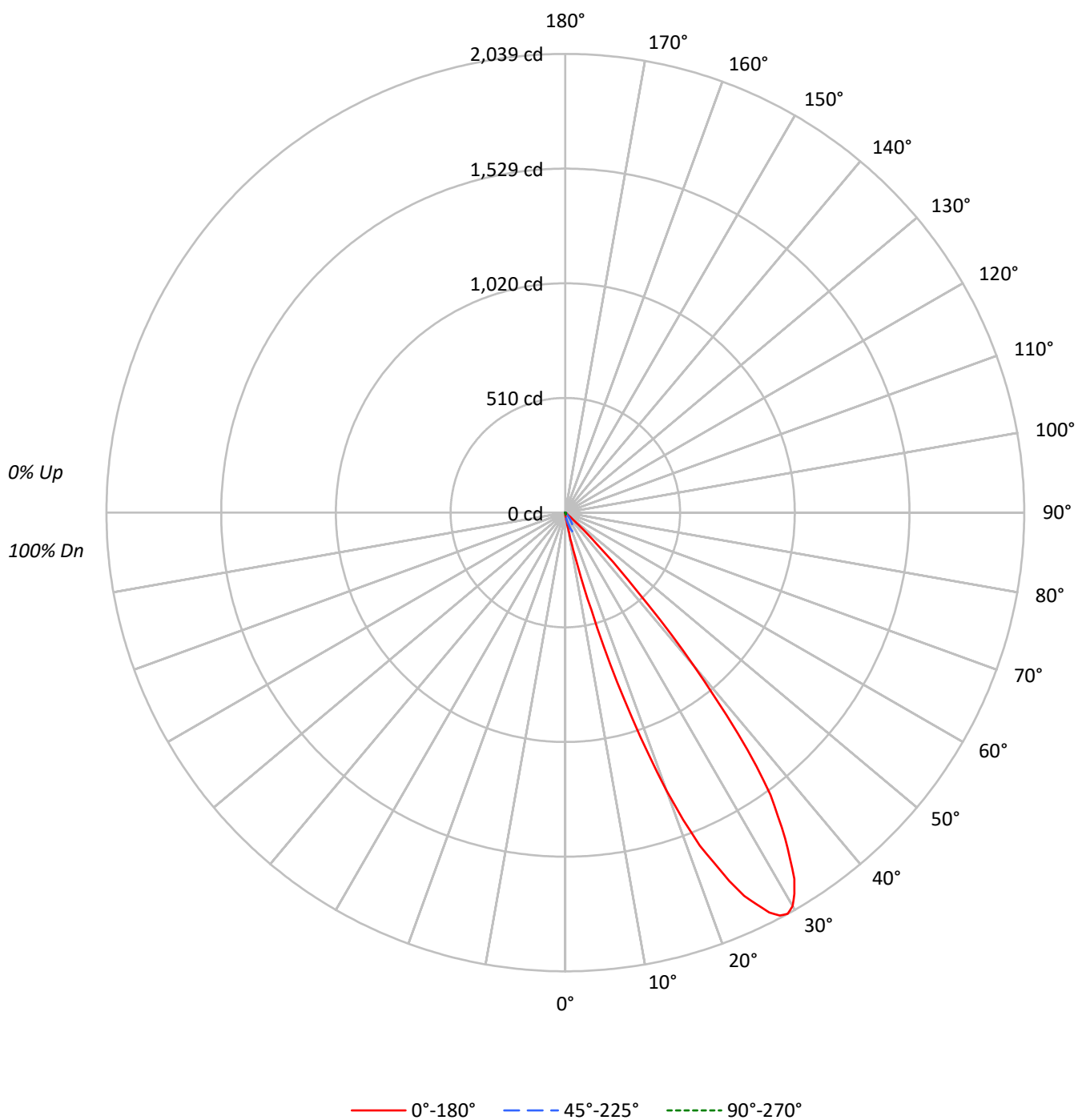
Lumens per Lamp: N/A
Luminaire Lumens: 286.0 lumens
Efficiency: N/A
Efficacy: 26.0 lumens/watt
Spacing Criteria (0/90/45): 2.29 / 0.53 / 1.19
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 11
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	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°	2171	2171	2171	2171	2171
5°	4975	3720	2047	1255	1079
10°	15653	6480	1670	690	512
15°	101431	11964	1226	227	68
20°	306137	20465	840	0	0
25°	454647	20662	508	0	0
30°	511269	15699	203	0	0
35°	441130	9369	134	0	0
40°	254019	3206	0	0	0
45°	61960	1302	93	0	93
50°	7437	341	102	102	273
55°	994	0	191	191	382
60°	132	0	351	351	570
65°	156	156	519	519	830
70°	192	192	641	641	833
75°	0	254	847	678	847
80°	0	379	1010	631	1010
85°	0	755	2013	755	755

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°

Vertical Angle: 45°

Luminance: 62363 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.3	0.5
10°-20°	26.5	9.3
20°-30°	115.5	40.4
30°-40°	116.3	40.7
40°-50°	23.3	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°	143.4	50.1
0°-40°	259.7	90.8
0°-60°	284.2	99.4
0°-90°	286.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	286.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	10	10	10	10	10	
5°	23	17	9	6	5	4
15°	447	53	5	1	0	175
25°	1879	85	2	0	0	847
35°	1648	35	0	0	0	980
45°	200	4	0	0	0	218
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	

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CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9
2.5°	14.8	14.8	14.5	14.5	14.3	14.5	14.0	14.3	14.3	14.0	12.7
5°	22.6	23.1	22.8	22.8	22.6	22.8	22.3	21.8	21.3	21.3	16.9
7.5°	37.1	36.8	36.3	36.6	35.8	35.3	34.8	34.5	33.0	32.2	22.1
10°	70.3	71.9	70.6	70.3	65.6	65.4	62.3	57.9	54.0	51.9	29.1
12.5°	193.6	201.9	188.9	182.7	179.0	165.0	159.1	143.7	129.0	117.8	36.8
15°	446.8	467.3	441.1	442.9	421.1	381.2	346.1	316.0	280.5	244.7	52.7
17.5°	875.5	858.8	844.6	820.4	776.1	717.4	641.9	565.4	499.2	429.9	73.4
20°	1311.9	1297.1	1264.7	1212.0	1155.4	1068.5	978.7	863.8	752.5	648.2	87.7
21°	1462.1	1457.2	1404.0	1371.6	1284.4	1201.3	1097.8	974.8	849.5	726.0	90.0
22°	1596.3	1566.7	1538.1	1490.1	1403.5	1313.2	1198.0	1068.5	932.5	795.3	90.3
23°	1689.1	1675.7	1648.7	1594.4	1508.3	1402.2	1280.7	1145.3	1002.1	844.3	89.5
24°	1791.9	1774.8	1735.3	1672.0	1585.1	1480.3	1341.7	1207.3	1051.6	885.6	87.4
25°	1879.1	1852.4	1805.7	1737.4	1642.4	1534.2	1394.9	1247.3	1086.1	913.3	85.4
26°	1935.6	1921.1	1861.2	1787.0	1685.3	1573.7	1431.5	1277.9	1108.5	926.0	82.0
27°	1994.5	1967.8	1908.9	1823.6	1713.3	1599.4	1452.3	1292.7	1116.2	926.6	77.8
28°	2028.3	1999.2	1932.5	1842.8	1731.4	1613.6	1464.2	1297.3	1114.7	918.5	72.9
29°	2038.9	2002.3	1937.2	1845.9	1735.9	1614.7	1462.4	1290.6	1100.9	898.8	67.2
30°	2019.2	1981.8	1920.1	1831.1	1721.8	1601.7	1445.5	1268.3	1076.5	870.5	62.0
31°	1976.1	1944.5	1884.8	1795.5	1690.7	1571.3	1407.4	1231.7	1035.0	832.6	56.0
32°	1919.3	1888.2	1829.5	1748.8	1642.2	1521.8	1355.2	1174.6	986.2	776.1	50.1
33°	1833.9	1816.0	1763.4	1686.3	1579.7	1451.0	1285.2	1106.4	916.7	713.3	44.9
34°	1747.5	1725.0	1688.1	1603.8	1489.1	1360.7	1193.8	1012.2	831.9	643.0	40.0
35°	1647.9	1634.4	1576.5	1509.1	1393.9	1262.6	1096.8	920.6	733.0	564.6	35.0
36°	1551.4	1530.6	1464.7	1393.4	1281.5	1139.6	975.9	810.3	647.6	491.2	29.8
37°	1411.3	1379.6	1332.6	1257.4	1126.6	1005.7	856.3	702.6	542.6	411.8	24.1
38°	1246.5	1231.7	1166.6	1090.8	982.6	867.9	720.0	589.8	447.6	343.8	18.4
39°	1052.1	1051.9	989.6	934.9	829.0	725.7	592.4	478.7	369.5	276.9	14.3
40°	887.4	856.8	818.4	749.6	668.4	580.7	463.9	374.7	286.7	223.1	11.2
42.5°	465.2	462.6	440.1	388.4	343.0	291.4	231.7	193.0	151.0	123.0	7.0
45°	199.8	201.1	185.5	177.7	160.1	138.6	117.0	97.6	83.5	67.7	4.2
47.5°	50.6	48.5	48.0	49.8	49.8	48.3	43.3	40.7	37.6	34.5	2.3
50°	21.8	21.3	20.8	20.8	19.5	18.7	17.4	15.8	14.5	13.0	1.0
52.5°	8.0	8.3	8.6	8.3	8.3	8.0	8.0	7.8	7.0	6.2	0.5
55°	2.6	2.6	2.6	2.9	2.9	3.1	3.1	3.1	3.1	2.9	0.0
57.5°	0.5	0.5	0.8	0.8	0.8	0.8	0.8	0.8	1.0	1.0	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°	9.9	9.9	9.9	9.9	9.9	9.9
2.5°	11.4	10.1	8.6	7.3	7.0	6.7
5°	12.7	9.3	7.0	5.7	5.2	4.9
7.5°	13.8	8.6	5.7	4.2	3.6	3.4
10°	14.3	7.5	4.7	3.1	2.3	2.3
12.5°	14.5	6.5	3.4	2.1	1.3	1.3
15°	14.3	5.4	2.6	1.0	0.3	0.3
17.5°	13.0	4.4	1.6	0.3	0.0	0.0
20°	11.2	3.6	1.0	0.0	0.0	0.0
21°	10.6	3.1	0.8	0.0	0.0	0.0
22°	9.9	2.9	0.5	0.0	0.0	0.0
23°	9.1	2.6	0.5	0.0	0.0	0.0
24°	8.3	2.3	0.3	0.0	0.0	0.0
25°	7.8	2.1	0.3	0.0	0.0	0.0
26°	7.3	1.8	0.3	0.0	0.0	0.0
27°	6.5	1.6	0.0	0.0	0.0	0.0
28°	6.0	1.3	0.0	0.0	0.0	0.0
29°	5.2	1.0	0.0	0.0	0.0	0.0
30°	4.4	0.8	0.0	0.0	0.0	0.0
31°	3.6	0.8	0.0	0.0	0.0	0.0
32°	3.1	0.5	0.0	0.0	0.0	0.0
33°	2.6	0.5	0.0	0.0	0.0	0.0
34°	2.3	0.5	0.0	0.0	0.0	0.0
35°	2.1	0.5	0.0	0.0	0.0	0.0
36°	1.6	0.3	0.0	0.0	0.0	0.0
37°	1.3	0.3	0.0	0.0	0.0	0.0
38°	1.0	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	1.0	1.0
57.5°	0.3	0.5	0.5	0.8	1.0	1.3
60°	0.5	0.8	0.8	0.8	1.3	1.3
62.5°	0.5	0.8	1.0	1.0	1.3	1.6
65°	0.5	1.0	1.0	1.0	1.3	1.6
67.5°	0.8	1.0	1.0	1.0	1.3	1.6
70°	0.8	1.0	1.0	1.0	1.3	1.3
72.5°	0.8	1.0	0.8	1.0	1.0	1.3
75°	0.8	1.0	0.8	0.8	1.0	1.0
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



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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)