

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: P1336883

Luminaire Tested: P3A05R209727DE010 E3A301GPH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1336883
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: P3A05R209727DE010 E3A301GPH
Description: 3in Adjustable LED luminaire with, R20 optic, 2700K CCT AND, 97CRI , E3A301GPH TRIM
Light Source: -
Ballast/Driver: -

Summary

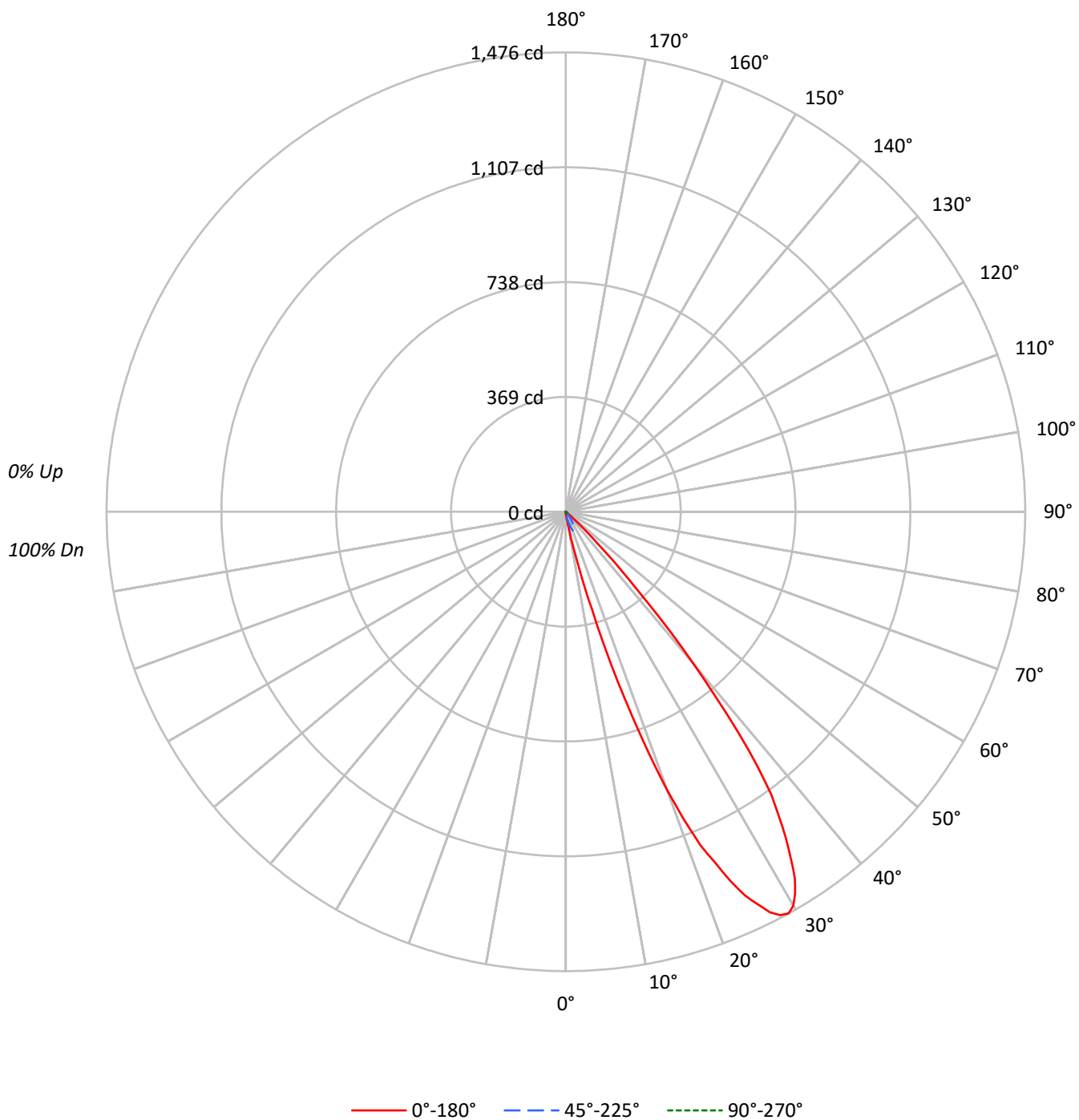
Lumens per Lamp: N/A
Luminaire Lumens: 207.1 lumens
Efficiency: N/A
Efficacy: 28.8 lumens/watt
Spacing Criteria (0/90/45): 2.3 / 0.53 / 1.19
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 7.2
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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	113	109	107	104	110	107	105	102	103	101	99		99	98	96		96
2	106	100	96	92	104	99	94	91	95	92	89		92	89	87		89
3	99	92	86	81	97	90	85	81	88	83	79		85	81	78		83
4	93	84	78	73	91	83	77	72	81	75	71		79	74	71		77
5	87	77	70	65	85	76	70	65	74	69	64		72	68	64		71
6	81	71	64	59	80	70	63	58	68	62	58		67	62	58		65
7	76	65	58	53	74	64	57	53	63	57	52		62	56	52		60
8	71	60	53	48	70	59	52	48	58	52	47		57	51	47		56
9	66	55	48	43	65	54	48	43	53	47	43		52	47	43		51
10	62	51	44	39	61	50	44	39	49	43	39		48	43	39		48

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	1557	1557	1557	1557	1557
5°	3588	2685	1497	902	792
10°	11334	4676	1202	512	379
15°	73417	8649	885	182	45
20°	221569	14818	607	0	0
25°	329051	14952	363	0	0
30°	370032	11369	152	0	0
35°	319277	6799	107	0	0
40°	183859	2319	0	0	0
45°	44842	930	62	0	62
50°	5390	273	68	68	205
55°	726	0	153	153	306
60°	88	0	263	263	395
65°	104	104	415	415	571
70°	128	128	513	513	577
75°	0	169	678	508	678
80°	0	253	758	505	758
85°	0	503	1510	503	503

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°

Vertical Angle: 45°

Luminance: 45121 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.0	0.5
10°-20°	19.2	9.3
20°-30°	83.6	40.4
30°-40°	84.2	40.7
40°-50°	16.9	8.2
50°-60°	0.9	0.4
60°-70°	0.6	0.3
70°-80°	0.5	0.3
80°-90°	0.3	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°	103.8	50.1
0°-40°	188.0	90.8
0°-60°	205.7	99.3
0°-90°	207.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	207.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	7	7	7	7	7	
5°	16	12	7	4	4	3
15°	323	38	4	1	0	127
25°	1360	62	2	0	0	613
35°	1193	25	0	0	0	710
45°	145	3	0	0	0	157
55°	2	0	0	0	1	3
65°	0	0	1	1	1	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°	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1
2.5°	10.7	10.7	10.5	10.5	10.3	10.5	10.1	10.3	10.3	10.1	9.2
5°	16.3	16.7	16.5	16.5	16.3	16.5	16.2	15.8	15.4	15.4	12.2
7.5°	26.9	26.7	26.3	26.5	25.9	25.5	25.2	25.0	23.9	23.3	16.0
10°	50.9	52.0	51.1	50.9	47.5	47.3	45.1	41.9	39.1	37.6	21.0
12.5°	140.1	146.1	136.7	132.2	129.6	119.4	115.1	104.0	93.3	85.3	26.7
15°	323.4	338.2	319.3	320.6	304.8	275.9	250.5	228.7	203.0	177.1	38.1
17.5°	633.6	621.6	611.3	593.8	561.7	519.3	464.6	409.2	361.3	311.2	53.1
20°	949.5	938.8	915.3	877.2	836.3	773.4	708.4	625.2	544.6	469.1	63.5
21°	1058.2	1054.7	1016.2	992.7	929.6	869.5	794.6	705.6	614.9	525.5	65.2
22°	1155.3	1133.9	1113.3	1078.5	1015.8	950.4	867.1	773.4	674.9	575.6	65.4
23°	1222.6	1212.8	1193.3	1154.0	1091.7	1014.9	927.0	828.9	725.3	611.1	64.8
24°	1296.9	1284.5	1256.0	1210.2	1147.3	1071.4	971.1	873.8	761.1	641.0	63.3
25°	1360.0	1340.7	1306.9	1257.5	1188.8	1110.4	1009.6	902.7	786.1	661.0	61.8
26°	1401.0	1390.5	1347.1	1293.4	1219.7	1139.0	1036.1	924.9	802.3	670.3	59.3
27°	1443.6	1424.3	1381.6	1319.8	1240.0	1157.6	1051.1	935.6	807.9	670.6	56.3
28°	1468.0	1447.0	1398.7	1333.7	1253.2	1167.9	1059.7	939.0	806.8	664.8	52.8
29°	1475.7	1449.2	1402.1	1336.0	1256.4	1168.7	1058.4	934.1	796.8	650.5	48.6
30°	1461.4	1434.4	1389.7	1325.3	1246.2	1159.3	1046.2	918.0	779.2	630.1	44.9
31°	1430.3	1407.4	1364.2	1299.6	1223.7	1137.3	1018.6	891.5	749.1	602.6	40.6
32°	1389.1	1366.6	1324.2	1265.8	1188.6	1101.4	980.9	850.2	713.8	561.7	36.2
33°	1327.4	1314.4	1276.3	1220.5	1143.3	1050.2	930.2	800.8	663.5	516.3	32.5
34°	1264.8	1248.5	1221.8	1160.8	1077.8	984.8	864.1	732.6	602.1	465.4	28.9
35°	1192.7	1182.9	1141.1	1092.2	1008.9	913.8	793.8	666.3	530.5	408.6	25.4
36°	1122.8	1107.8	1060.1	1008.5	927.5	824.8	706.3	586.5	468.7	355.5	21.6
37°	1021.4	998.5	964.5	910.1	815.4	727.9	619.7	508.6	392.7	298.0	17.5
38°	902.2	891.5	844.3	789.5	711.2	628.2	521.1	426.9	324.0	248.8	13.3
39°	761.5	761.3	716.3	676.6	600.0	525.3	428.7	346.5	267.4	200.4	10.3
40°	642.3	620.1	592.3	542.5	483.8	420.3	335.8	271.2	207.5	161.5	8.1
42.5°	336.7	334.8	318.5	281.1	248.3	210.9	167.7	139.7	109.3	89.0	5.1
45°	144.6	145.5	134.3	128.6	115.9	100.3	84.7	70.6	60.5	49.0	3.0
47.5°	36.6	35.1	34.7	36.1	36.1	34.9	31.4	29.5	27.2	25.0	1.7
50°	15.8	15.4	15.0	15.0	14.1	13.5	12.6	11.5	10.5	9.4	0.8
52.5°	5.8	6.0	6.2	6.0	6.0	5.8	5.8	5.6	5.1	4.5	0.4
55°	1.9	1.9	1.9	2.1	2.1	2.3	2.3	2.3	2.3	2.1	0.0
57.5°	0.4	0.4	0.6	0.6	0.6	0.6	0.6	0.6	0.8	0.8	0.0
60°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0
62.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
65°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
67.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
70°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
72.5°	0.2	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
75°	0.0	0.0	0.0	0.2	0.0	0.2	0.2	0.0	0.2	0.2	0.2
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2



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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	0.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
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°	7.1	7.1	7.1	7.1	7.1	7.1
2.5°	8.3	7.3	6.2	5.3	5.1	4.9
5°	9.2	6.8	5.1	4.1	3.8	3.6
7.5°	10.0	6.2	4.1	3.0	2.6	2.4
10°	10.3	5.4	3.4	2.3	1.7	1.7
12.5°	10.5	4.7	2.4	1.5	0.9	0.9
15°	10.3	3.9	1.9	0.8	0.2	0.2
17.5°	9.4	3.2	1.1	0.2	0.0	0.0
20°	8.1	2.6	0.8	0.0	0.0	0.0
21°	7.7	2.3	0.6	0.0	0.0	0.0
22°	7.1	2.1	0.4	0.0	0.0	0.0
23°	6.6	1.9	0.4	0.0	0.0	0.0
24°	6.0	1.7	0.2	0.0	0.0	0.0
25°	5.6	1.5	0.2	0.0	0.0	0.0
26°	5.3	1.3	0.2	0.0	0.0	0.0
27°	4.7	1.1	0.0	0.0	0.0	0.0
28°	4.3	0.9	0.0	0.0	0.0	0.0
29°	3.8	0.8	0.0	0.0	0.0	0.0
30°	3.2	0.6	0.0	0.0	0.0	0.0
31°	2.6	0.6	0.0	0.0	0.0	0.0
32°	2.3	0.4	0.0	0.0	0.0	0.0
33°	1.9	0.4	0.0	0.0	0.0	0.0
34°	1.7	0.4	0.0	0.0	0.0	0.0
35°	1.5	0.4	0.0	0.0	0.0	0.0
36°	1.1	0.2	0.0	0.0	0.0	0.0
37°	0.9	0.2	0.0	0.0	0.0	0.0
38°	0.8	0.2	0.0	0.0	0.0	0.0
39°	0.6	0.0	0.0	0.0	0.0	0.0
40°	0.6	0.0	0.0	0.0	0.0	0.0
42.5°	0.2	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.2	0.0	0.0	0.2	0.2
47.5°	0.0	0.2	0.0	0.0	0.2	0.4
50°	0.0	0.2	0.2	0.2	0.4	0.6
52.5°	0.0	0.4	0.2	0.2	0.6	0.6
55°	0.2	0.4	0.2	0.4	0.8	0.8
57.5°	0.2	0.4	0.4	0.6	0.8	0.9
60°	0.4	0.6	0.6	0.6	0.9	0.9
62.5°	0.4	0.6	0.8	0.8	0.9	1.1
65°	0.4	0.8	0.8	0.8	0.9	1.1
67.5°	0.6	0.8	0.8	0.8	0.9	1.1
70°	0.6	0.8	0.8	0.8	0.9	0.9
72.5°	0.6	0.8	0.6	0.8	0.8	0.9
75°	0.6	0.8	0.6	0.6	0.8	0.8
77.5°	0.4	0.6	0.6	0.4	0.6	0.6
80°	0.4	0.6	0.4	0.4	0.6	0.6



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.4	0.6	0.4	0.2	0.4	0.4
85°	0.4	0.6	0.4	0.2	0.2	0.2
87.5°	0.4	0.6	0.4	0.2	0.0	0.2
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)