

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: P1336915

Luminaire Tested: P3A05R209735DE010 E3A301GPH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1336915
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: P3A05R209735DE010 E3A301GPH
Description: 3in Adjustable LED luminaire with, R20 optic, 3500K CCT AND, 97CRI , E3A301GPH TRIM
Light Source: -
Ballast/Driver: -

Summary

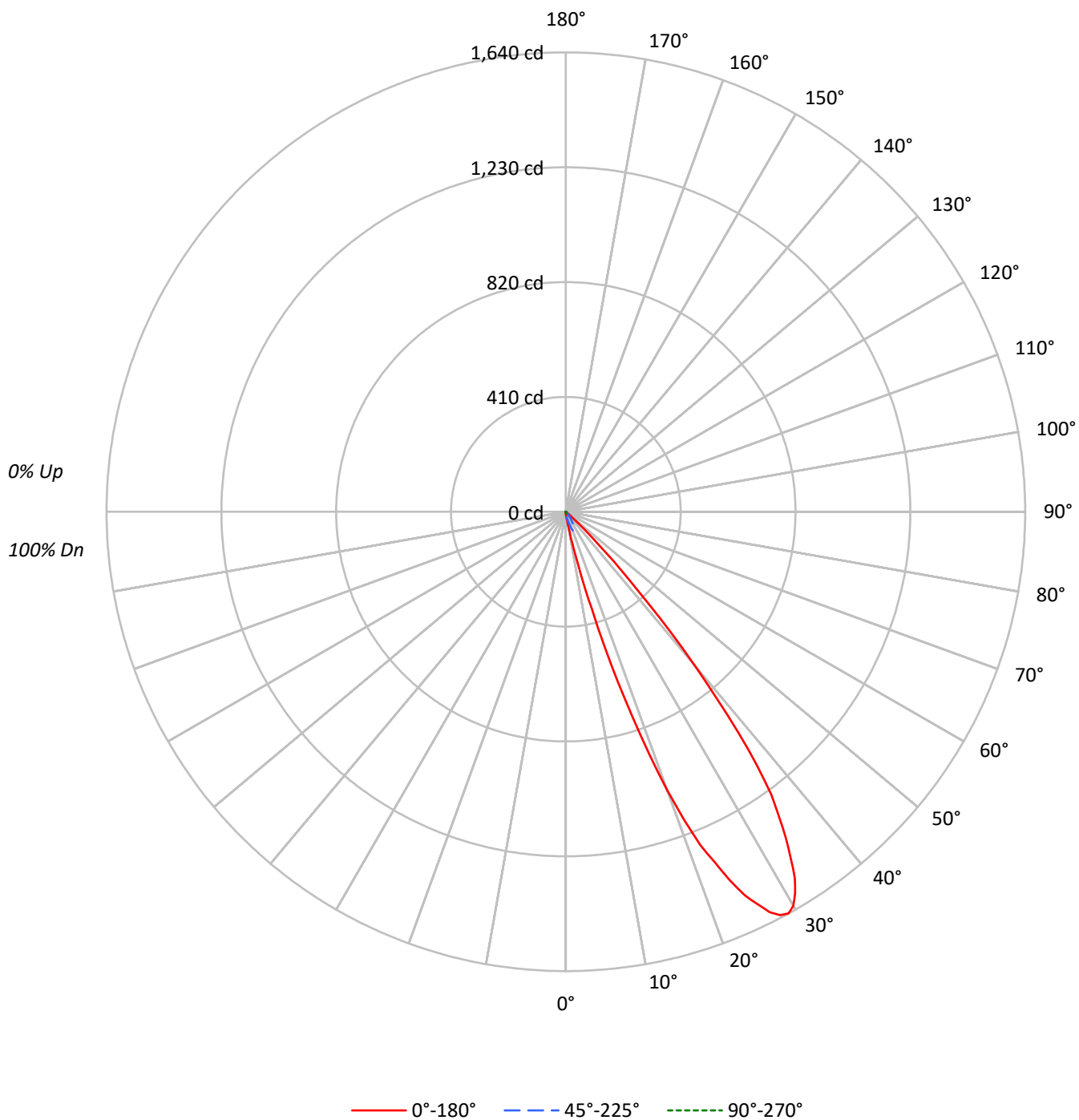
Lumens per Lamp: N/A
Luminaire Lumens: 229.9 lumens
Efficiency: N/A
Efficacy: 31.9 lumens/watt
Spacing Criteria (0/90/45): 2.3 / 0.54 / 1.19
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1336915

CATALOG NUMBER: P3A05R209735DE010 E3A301GPH

Luminous Intensity Polar Plot



TEST NUMBER: P1336915

CATALOG NUMBER: P3A05R209735DE010 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°	1732	1732	1732	1732	1732
5°	4006	2994	1651	1013	880
10°	12580	5210	1358	557	423
15°	81567	9625	999	182	45
20°	246188	16451	677	0	0
25°	365610	16622	411	0	0
30°	411152	12635	152	0	0
35°	354746	7549	107	0	0
40°	204268	2576	0	0	0
45°	49835	1023	62	0	62
50°	5970	273	68	68	205
55°	803	0	153	153	306
60°	88	0	263	263	439
65°	104	104	415	415	675
70°	128	128	513	513	641
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: 50145 cd/sqm

TEST NUMBER: P1336915

CATALOG NUMBER: P3A05R209735DE010 E3A301GPH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.1	0.5
10°-20°	21.3	9.3
20°-30°	92.9	40.4
30°-40°	93.6	40.7
40°-50°	18.8	8.2
50°-60°	0.9	0.4
60°-70°	0.6	0.3
70°-80°	0.5	0.2
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°	115.3	50.1
0°-40°	208.8	90.8
0°-60°	228.5	99.4
0°-90°	229.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	229.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	8	8	8	8	8	
5°	18	14	8	5	4	3
15°	359	42	4	1	0	141
25°	1511	69	2	0	0	681
35°	1325	28	0	0	0	789
45°	161	3	0	0	0	175
55°	2	0	0	0	1	4
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	

TEST NUMBER: P1336915

CATALOG NUMBER: P3A05R209735DE010 E3A301GPH

CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9
2.5°	11.9	11.9	11.7	11.7	11.5	11.7	11.3	11.5	11.5	11.3	10.2
5°	18.2	18.6	18.4	18.4	18.2	18.4	17.9	17.5	17.1	17.1	13.6
7.5°	29.8	29.6	29.2	29.4	28.8	28.4	28.0	27.8	26.5	25.9	17.7
10°	56.5	57.8	56.8	56.5	52.8	52.6	50.1	46.5	43.4	41.7	23.4
12.5°	155.7	162.3	151.9	146.9	144.0	132.7	127.9	115.6	103.7	94.7	29.6
15°	359.3	375.8	354.7	356.2	338.7	306.5	278.4	254.2	225.6	196.8	42.4
17.5°	704.0	690.7	679.2	659.8	624.1	577.0	516.2	454.7	401.5	345.8	59.1
20°	1055.0	1043.1	1017.0	974.7	929.2	859.3	787.1	694.6	605.1	521.2	70.5
21°	1175.8	1171.9	1129.1	1103.0	1032.9	966.1	882.9	784.0	683.2	583.8	72.4
22°	1283.7	1259.9	1237.0	1198.4	1128.7	1056.1	963.4	859.3	749.9	639.6	72.6
23°	1358.4	1347.6	1325.9	1282.2	1213.0	1127.6	1030.0	921.0	805.9	679.0	72.0
24°	1441.0	1427.3	1395.5	1344.6	1274.7	1190.4	1079.0	970.9	845.7	712.2	70.3
25°	1511.1	1489.7	1452.1	1397.2	1320.8	1233.8	1121.8	1003.1	873.5	734.5	68.7
26°	1556.6	1545.0	1496.8	1437.1	1355.3	1265.6	1151.2	1027.7	891.4	744.7	65.9
27°	1604.0	1582.5	1535.1	1466.5	1377.8	1286.2	1167.9	1039.6	897.7	745.1	62.6
28°	1631.1	1607.8	1554.1	1481.9	1392.4	1297.7	1177.5	1043.3	896.4	738.7	58.6
29°	1639.7	1610.3	1557.9	1484.4	1396.0	1298.5	1176.0	1037.9	885.4	722.8	54.0
30°	1623.8	1593.8	1544.1	1472.5	1384.7	1288.1	1162.5	1020.0	865.7	700.1	49.9
31°	1589.2	1563.7	1515.7	1444.0	1359.7	1263.7	1131.8	990.5	832.4	669.6	45.1
32°	1543.5	1518.5	1471.3	1406.4	1320.6	1223.8	1089.9	944.6	793.1	624.1	40.3
33°	1474.8	1460.4	1418.1	1356.1	1270.3	1166.9	1033.5	889.7	737.2	573.6	36.1
34°	1405.4	1387.2	1357.6	1289.8	1197.5	1094.2	960.1	814.0	669.0	517.1	32.1
35°	1325.2	1314.4	1267.8	1213.6	1120.9	1015.4	882.0	740.3	589.5	454.1	28.2
36°	1247.6	1230.9	1177.9	1120.5	1030.6	916.5	784.8	651.7	520.8	395.0	24.0
37°	1134.9	1109.5	1071.7	1011.2	906.0	808.8	688.6	565.1	436.3	331.2	19.4
38°	1002.4	990.5	938.2	877.2	790.2	698.0	579.0	474.3	359.9	276.5	14.8
39°	846.1	845.9	795.8	751.8	666.7	583.6	476.4	385.0	297.1	222.6	11.5
40°	713.6	689.0	658.1	602.8	537.5	467.0	373.1	301.3	230.6	179.5	9.0
42.5°	374.1	372.0	353.9	312.4	275.9	234.3	186.3	155.2	121.4	98.9	5.6
45°	160.7	161.7	149.2	142.9	128.7	111.4	94.1	78.5	67.2	54.5	3.3
47.5°	40.7	39.0	38.6	40.1	40.1	38.8	34.8	32.8	30.3	27.8	1.9
50°	17.5	17.1	16.7	16.7	15.6	15.0	14.0	12.7	11.7	10.4	0.8
52.5°	6.5	6.7	6.9	6.7	6.7	6.5	6.5	6.3	5.6	5.0	0.4
55°	2.1	2.1	2.1	2.3	2.3	2.5	2.5	2.5	2.5	2.3	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

TEST NUMBER: P1336915

CATALOG NUMBER: P3A05R209735DE010 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	0.2
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

TEST NUMBER: P1336915

CATALOG NUMBER: P3A05R209735DE010 E3A301GPH

CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	7.9	7.9	7.9	7.9	7.9	7.9
2.5°	9.2	8.1	6.9	5.8	5.6	5.4
5°	10.2	7.5	5.6	4.6	4.2	4.0
7.5°	11.1	6.9	4.6	3.3	2.9	2.7
10°	11.5	6.1	3.8	2.5	1.9	1.9
12.5°	11.7	5.2	2.7	1.7	1.0	1.0
15°	11.5	4.4	2.1	0.8	0.2	0.2
17.5°	10.4	3.5	1.3	0.2	0.0	0.0
20°	9.0	2.9	0.8	0.0	0.0	0.0
21°	8.6	2.5	0.6	0.0	0.0	0.0
22°	7.9	2.3	0.4	0.0	0.0	0.0
23°	7.3	2.1	0.4	0.0	0.0	0.0
24°	6.7	1.9	0.2	0.0	0.0	0.0
25°	6.3	1.7	0.2	0.0	0.0	0.0
26°	5.8	1.5	0.2	0.0	0.0	0.0
27°	5.2	1.3	0.0	0.0	0.0	0.0
28°	4.8	1.0	0.0	0.0	0.0	0.0
29°	4.2	0.8	0.0	0.0	0.0	0.0
30°	3.5	0.6	0.0	0.0	0.0	0.0
31°	2.9	0.6	0.0	0.0	0.0	0.0
32°	2.5	0.4	0.0	0.0	0.0	0.0
33°	2.1	0.4	0.0	0.0	0.0	0.0
34°	1.9	0.4	0.0	0.0	0.0	0.0
35°	1.7	0.4	0.0	0.0	0.0	0.0
36°	1.3	0.2	0.0	0.0	0.0	0.0
37°	1.0	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	1.0
60°	0.4	0.6	0.6	0.6	1.0	1.0
62.5°	0.4	0.6	0.8	0.8	1.0	1.3
65°	0.4	0.8	0.8	0.8	1.0	1.3
67.5°	0.6	0.8	0.8	0.8	1.0	1.3
70°	0.6	0.8	0.8	0.8	1.0	1.0
72.5°	0.6	0.8	0.6	0.8	0.8	1.0
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



TEST NUMBER: P1336915

CATALOG NUMBER: P3A05R209735DE010 E3A301GPH

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)