

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: P1336888

Luminaire Tested: P3A05R209727DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1336888
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 E3A301WMH
Description: 3in Adjustable LED luminaire with, R20 optic, 2700K CCT AND, 97CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

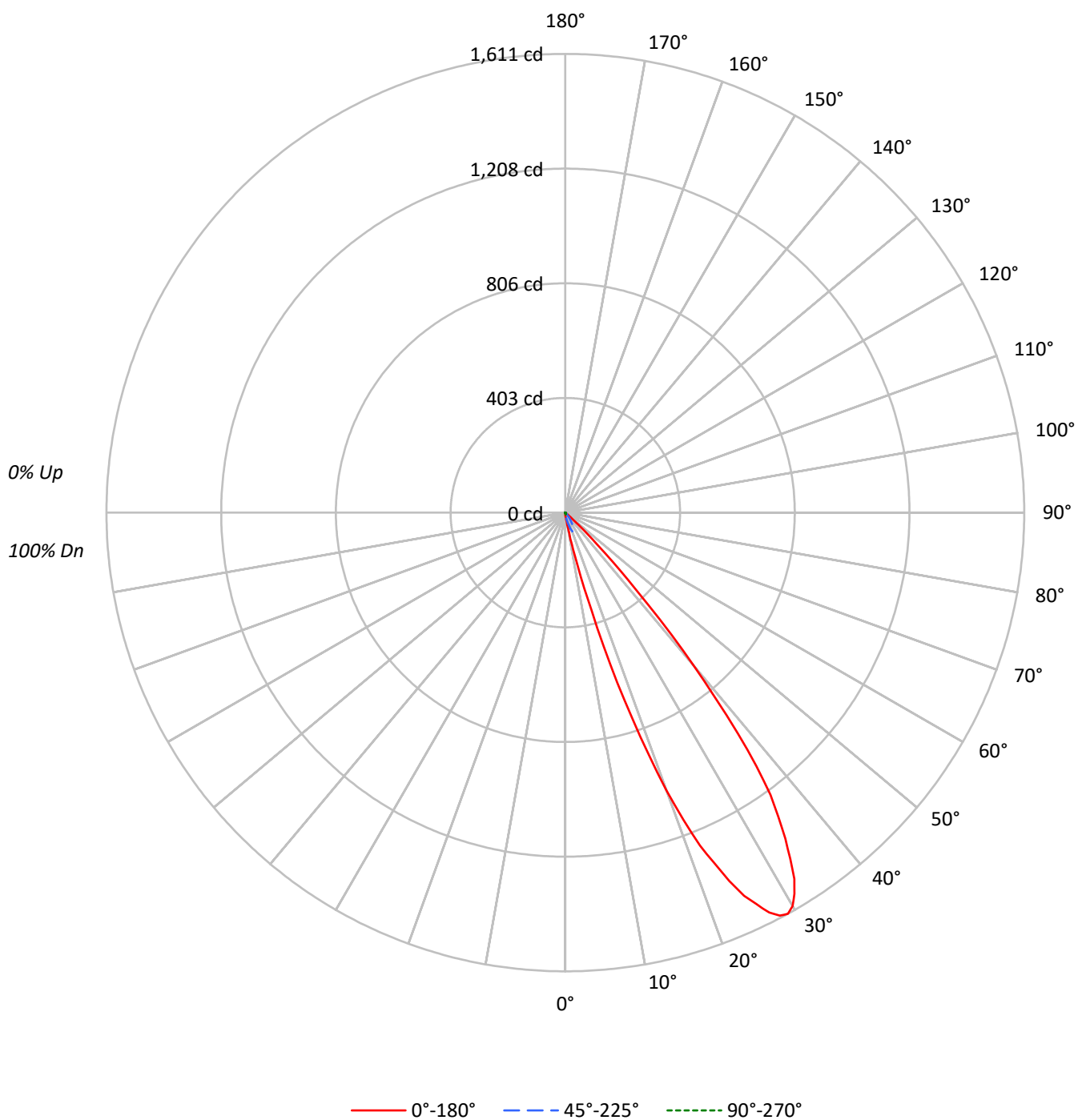
Lumens per Lamp: N/A
Luminaire Lumens: 226.0 lumens
Efficiency: N/A
Efficacy: 31.4 lumens/watt
Spacing Criteria (0/90/45): 2.29 / 0.53 / 1.19
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P1336888

CATALOG NUMBER: P3A05R209727DE010 E3A301WMH

Luminous Intensity Polar Plot



TEST NUMBER: P1336888

CATALOG NUMBER: P3A05R209727DE010 E3A301WMH

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°	1710	1710	1710	1710	1710
5°	3918	2928	1629	991	858
10°	12380	5121	1314	557	401
15°	80159	9444	976	182	45
20°	241918	16171	677	0	0
25°	359271	16332	387	0	0
30°	404012	12407	152	0	0
35°	348589	7415	107	0	0
40°	200719	2519	0	0	0
45°	48966	1023	62	0	62
50°	5868	273	68	68	205
55°	803	0	153	153	306
60°	88	0	263	263	439
65°	104	104	415	415	623
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: 49276 cd/sqm

TEST NUMBER: P1336888

CATALOG NUMBER: P3A05R209727DE010 E3A301WMH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.0	0.5
10°-20°	20.9	9.3
20°-30°	91.3	40.4
30°-40°	91.9	40.7
40°-50°	18.4	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°	113.3	50.1
0°-40°	205.2	90.8
0°-60°	224.6	99.4
0°-90°	226.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	226.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	8	8	8	8	8	
5°	18	13	7	4	4	3
15°	353	42	4	1	0	138
25°	1485	68	2	0	0	670
35°	1302	28	0	0	0	775
45°	158	3	0	0	0	172
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: P1336888

CATALOG NUMBER: P3A05R209727DE010 E3A301WMH

CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
2.5°	11.7	11.7	11.5	11.5	11.3	11.5	11.1	11.3	11.3	11.1	10.0
5°	17.8	18.2	18.0	18.0	17.8	18.0	17.6	17.2	16.8	16.8	13.3
7.5°	29.3	29.1	28.7	28.9	28.3	27.9	27.5	27.3	26.0	25.4	17.4
10°	55.6	56.8	55.8	55.6	51.9	51.7	49.2	45.7	42.6	41.0	23.0
12.5°	153.0	159.5	149.3	144.3	141.5	130.4	125.7	113.6	101.9	93.1	29.1
15°	353.1	369.3	348.6	350.0	332.8	301.2	273.5	249.7	221.6	193.3	41.6
17.5°	691.8	678.7	667.4	648.3	613.3	566.9	507.3	446.8	394.5	339.7	58.0
20°	1036.7	1025.0	999.3	957.7	913.0	844.3	773.4	682.6	594.6	512.2	69.3
21°	1155.4	1151.5	1109.4	1083.8	1014.9	949.3	867.5	770.3	671.3	573.7	71.1
22°	1261.4	1238.0	1215.5	1177.5	1109.0	1037.7	946.6	844.3	736.9	628.4	71.4
23°	1334.8	1324.1	1302.8	1259.9	1191.9	1108.0	1012.1	905.0	791.8	667.2	70.7
24°	1416.0	1402.4	1371.3	1321.2	1252.6	1169.7	1060.2	954.0	831.0	699.8	69.1
25°	1484.9	1463.7	1426.8	1372.9	1297.9	1212.4	1102.3	985.6	858.3	721.7	67.5
26°	1529.6	1518.1	1470.7	1412.1	1331.7	1243.5	1131.2	1009.8	875.9	731.8	64.8
27°	1576.1	1555.0	1508.4	1441.0	1353.8	1263.8	1147.6	1021.5	882.1	732.2	61.5
28°	1602.8	1579.8	1527.1	1456.2	1368.2	1275.1	1157.0	1025.2	880.8	725.8	57.6
29°	1611.2	1582.3	1530.8	1458.6	1371.7	1275.9	1155.6	1019.8	870.0	710.2	53.1
30°	1595.6	1566.1	1517.3	1446.9	1360.6	1265.7	1142.3	1002.2	850.7	687.9	49.0
31°	1561.6	1536.5	1489.4	1418.8	1336.0	1241.7	1112.1	973.3	817.9	658.0	44.3
32°	1516.6	1492.0	1445.7	1381.9	1297.7	1202.5	1070.9	928.2	779.3	613.3	39.6
33°	1449.2	1435.0	1393.4	1332.5	1248.3	1146.6	1015.5	874.3	724.4	563.6	35.5
34°	1380.9	1363.1	1334.0	1267.3	1176.7	1075.2	943.4	799.8	657.3	508.1	31.6
35°	1302.2	1291.5	1245.8	1192.5	1101.5	997.7	866.7	727.5	579.2	446.2	27.7
36°	1225.9	1209.5	1157.4	1101.0	1012.7	900.5	771.1	640.3	511.8	388.1	23.6
37°	1115.2	1090.2	1053.1	993.6	890.3	794.7	676.6	555.2	428.7	325.4	19.1
38°	985.0	973.3	921.8	862.0	776.5	685.8	569.0	466.0	353.7	271.7	14.6
39°	831.4	831.2	782.0	738.7	655.1	573.5	468.1	378.3	292.0	218.8	11.3
40°	701.2	677.0	646.7	592.3	528.2	458.9	366.6	296.1	226.6	176.3	8.8
42.5°	367.6	365.6	347.7	306.9	271.1	230.3	183.1	152.5	119.3	97.2	5.5
45°	157.9	158.9	146.6	140.4	126.5	109.5	92.5	77.1	66.0	53.5	3.3
47.5°	40.0	38.3	37.9	39.4	39.4	38.1	34.2	32.2	29.7	27.3	1.8
50°	17.2	16.8	16.4	16.4	15.4	14.8	13.7	12.5	11.5	10.3	0.8
52.5°	6.4	6.6	6.8	6.6	6.6	6.4	6.4	6.2	5.5	4.9	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: P1336888

CATALOG NUMBER: P3A05R209727DE010 E3A301WMH

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: P1336888

CATALOG NUMBER: P3A05R209727DE010 E3A301WMH

CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	7.8	7.8	7.8	7.8	7.8	7.8
2.5°	9.0	8.0	6.8	5.7	5.5	5.3
5°	10.0	7.4	5.5	4.5	4.1	3.9
7.5°	10.9	6.8	4.5	3.3	2.9	2.7
10°	11.3	5.9	3.7	2.5	1.8	1.8
12.5°	11.5	5.1	2.7	1.6	1.0	1.0
15°	11.3	4.3	2.1	0.8	0.2	0.2
17.5°	10.3	3.5	1.2	0.2	0.0	0.0
20°	8.8	2.9	0.8	0.0	0.0	0.0
21°	8.4	2.5	0.6	0.0	0.0	0.0
22°	7.8	2.3	0.4	0.0	0.0	0.0
23°	7.2	2.1	0.4	0.0	0.0	0.0
24°	6.6	1.8	0.2	0.0	0.0	0.0
25°	6.2	1.6	0.2	0.0	0.0	0.0
26°	5.7	1.4	0.2	0.0	0.0	0.0
27°	5.1	1.2	0.0	0.0	0.0	0.0
28°	4.7	1.0	0.0	0.0	0.0	0.0
29°	4.1	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°	1.8	0.4	0.0	0.0	0.0	0.0
35°	1.6	0.4	0.0	0.0	0.0	0.0
36°	1.2	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	1.2
65°	0.4	0.8	0.8	0.8	1.0	1.2
67.5°	0.6	0.8	0.8	0.8	1.0	1.2
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: P1336888

CATALOG NUMBER: P3A05R209727DE010 E3A301WMH

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)