

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: P1336968

Luminaire Tested: P3A05R209830DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1336968
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: P3A05R209830DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R20 optic, 3000K CCT AND, 98CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

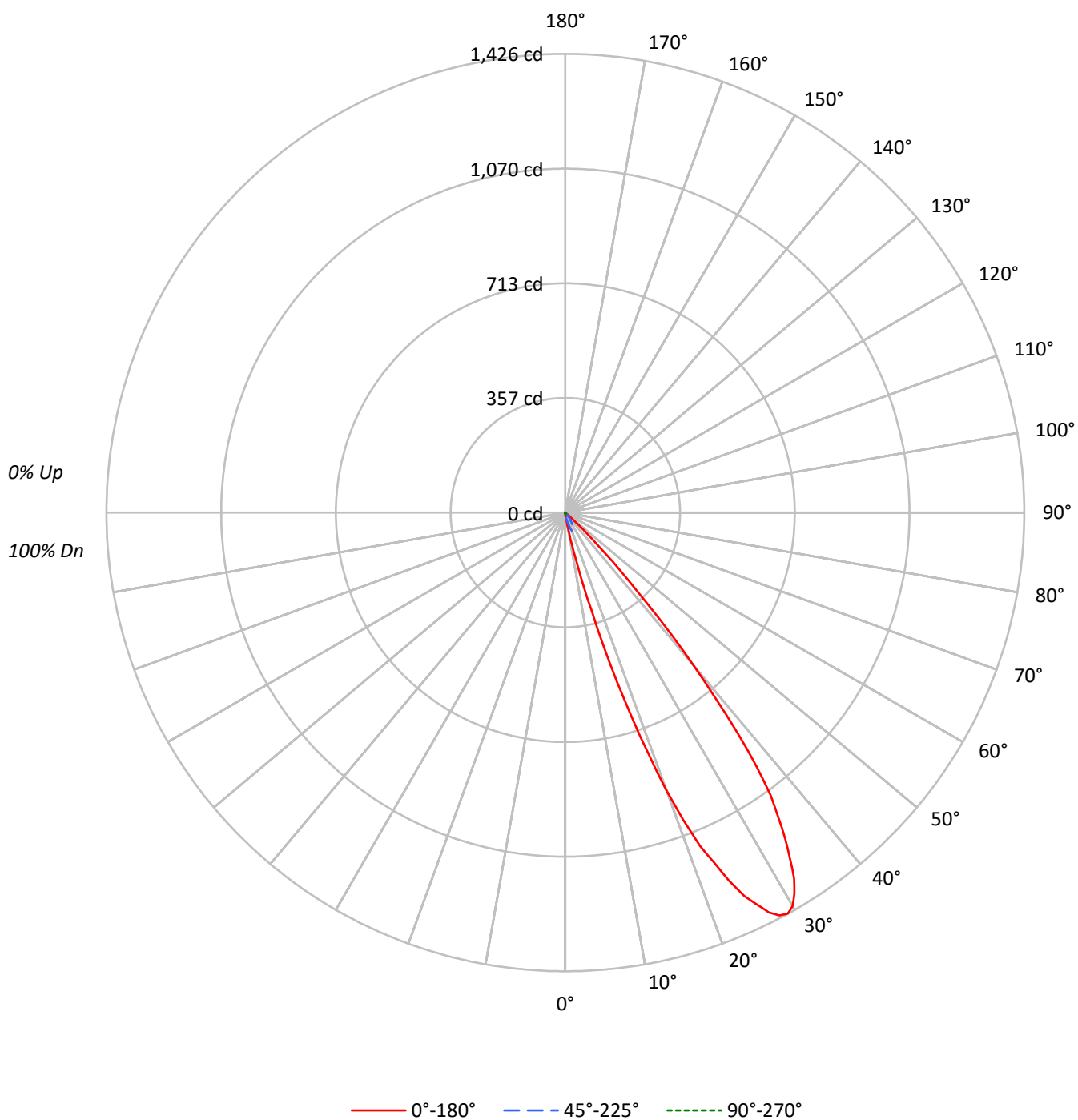
Lumens per Lamp: N/A
Luminaire Lumens: 200.0 lumens
Efficiency: N/A
Efficacy: 27.8 lumens/watt
Spacing Criteria (0/90/45): 2.29 / 0.53 / 1.19
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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: P1336968

CATALOG NUMBER: P3A05R209830DE010 E3A301WMH

Luminous Intensity Polar Plot



TEST NUMBER: P1336968

CATALOG NUMBER: P3A05R209830DE010 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	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°	1513	1513	1513	1513	1513
5°	3478	2597	1431	880	748
10°	10955	4520	1180	490	356
15°	70943	8354	863	159	45
20°	214079	14305	583	0	0
25°	317922	14444	363	0	0
30°	357523	10989	127	0	0
35°	308489	6558	107	0	0
40°	177647	2233	0	0	0
45°	43322	899	62	0	62
50°	5185	239	68	68	171
55°	688	0	153	153	268
60°	88	0	219	219	395
65°	104	104	363	363	571
70°	128	128	449	449	577
75°	0	169	593	424	593
80°	0	253	631	505	631
85°	0	503	1258	503	503

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°

Vertical Angle: 45°

Luminance: 43601 cd/sqm

TEST NUMBER: P1336968

CATALOG NUMBER: P3A05R209830DE010 E3A301WMH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.9	0.5
10°-20°	18.5	9.3
20°-30°	80.8	40.4
30°-40°	81.4	40.7
40°-50°	16.3	8.2
50°-60°	0.8	0.4
60°-70°	0.5	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°	100.2	50.1
0°-40°	181.6	90.8
0°-60°	198.7	99.4
0°-90°	200.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	200.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	7	7	7	7	7	
5°	16	12	6	4	3	2
15°	312	37	4	1	0	122
25°	1314	60	2	0	0	592
35°	1152	24	0	0	0	686
45°	140	3	0	0	0	152
55°	2	0	0	0	1	3
65°	0	0	1	1	1	0
75°	0	0	1	0	1	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	

TEST NUMBER: P1336968

CATALOG NUMBER: P3A05R209830DE010 E3A301WMH

CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9
2.5°	10.3	10.3	10.2	10.2	10.0	10.2	9.8	10.0	10.0	9.8	8.9
5°	15.8	16.1	16.0	16.0	15.8	16.0	15.6	15.2	14.9	14.9	11.8
7.5°	25.9	25.8	25.4	25.6	25.0	24.7	24.3	24.1	23.0	22.5	15.4
10°	49.2	50.3	49.4	49.2	45.9	45.7	43.5	40.5	37.7	36.3	20.3
12.5°	135.4	141.2	132.1	127.7	125.2	115.4	111.2	100.5	90.2	82.4	25.8
15°	312.5	326.8	308.5	309.7	294.5	266.5	242.1	221.0	196.1	171.1	36.8
17.5°	612.2	600.6	590.6	573.7	542.7	501.7	448.9	395.4	349.1	300.7	51.3
20°	917.4	907.1	884.4	847.5	808.0	747.2	684.4	604.0	526.2	453.3	61.3
21°	1022.5	1019.0	981.8	959.1	898.2	840.1	767.7	681.7	594.1	507.7	63.0
22°	1116.3	1095.6	1075.6	1042.1	981.4	918.3	837.7	747.2	652.1	556.1	63.1
23°	1181.2	1171.8	1152.9	1115.0	1054.8	980.5	895.6	800.9	700.7	590.4	62.6
24°	1253.1	1241.1	1213.5	1169.2	1108.5	1035.2	938.3	844.3	735.4	619.3	61.1
25°	1314.0	1295.4	1262.7	1215.0	1148.6	1072.9	975.5	872.2	759.5	638.7	59.7
26°	1353.6	1343.4	1301.5	1249.6	1178.5	1100.5	1001.0	893.6	775.1	647.6	57.3
27°	1394.8	1376.1	1334.9	1275.2	1198.1	1118.4	1015.6	904.0	780.6	647.9	54.4
28°	1418.4	1398.1	1351.4	1288.6	1210.8	1128.4	1023.9	907.2	779.5	642.3	51.0
29°	1425.8	1400.2	1354.7	1290.8	1213.9	1129.1	1022.6	902.5	769.9	628.5	47.0
30°	1412.0	1385.9	1342.7	1280.5	1204.1	1120.1	1010.8	886.9	752.8	608.8	43.4
31°	1381.9	1359.8	1318.0	1255.6	1182.3	1098.8	984.2	861.3	723.8	582.3	39.2
32°	1342.2	1320.4	1279.4	1223.0	1148.4	1064.2	947.7	821.4	689.7	542.7	35.0
33°	1282.5	1270.0	1233.1	1179.2	1104.7	1014.7	898.7	773.7	641.1	498.8	31.4
34°	1222.0	1206.3	1180.5	1121.5	1041.3	951.5	834.8	707.8	581.7	449.6	27.9
35°	1152.4	1142.9	1102.5	1055.3	974.7	882.9	767.0	643.8	512.6	394.8	24.5
36°	1084.9	1070.4	1024.3	974.4	896.2	796.9	682.4	566.7	452.9	343.5	20.9
37°	986.9	964.8	931.9	879.3	787.8	703.3	598.8	491.4	379.4	288.0	16.9
38°	871.7	861.3	815.8	762.8	687.1	606.9	503.5	412.4	313.0	240.4	12.9
39°	735.8	735.6	692.0	653.8	579.7	507.5	414.2	334.8	258.4	193.6	10.0
40°	620.6	599.1	572.3	524.2	467.4	406.1	324.4	262.0	200.5	156.0	7.8
42.5°	325.3	323.5	307.7	271.6	239.9	203.8	162.0	135.0	105.6	86.0	4.9
45°	139.7	140.6	129.7	124.3	112.0	96.9	81.8	68.2	58.4	47.4	2.9
47.5°	35.4	33.9	33.6	34.8	34.8	33.7	30.3	28.5	26.3	24.1	1.6
50°	15.2	14.9	14.5	14.5	13.6	13.1	12.2	11.1	10.2	9.1	0.7
52.5°	5.6	5.8	6.0	5.8	5.8	5.6	5.6	5.4	4.9	4.4	0.4
55°	1.8	1.8	1.8	2.0	2.0	2.2	2.2	2.2	2.2	2.0	0.0
57.5°	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.7	0.7	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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CATALOG NUMBER: P3A05R209830DE010 E3A301WMH

CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	6.9	6.9	6.9	6.9	6.9	6.9
2.5°	8.0	7.1	6.0	5.1	4.9	4.7
5°	8.9	6.5	4.9	4.0	3.6	3.4
7.5°	9.6	6.0	4.0	2.9	2.5	2.4
10°	10.0	5.3	3.3	2.2	1.6	1.6
12.5°	10.2	4.5	2.4	1.5	0.9	0.9
15°	10.0	3.8	1.8	0.7	0.2	0.2
17.5°	9.1	3.1	1.1	0.2	0.0	0.0
20°	7.8	2.5	0.7	0.0	0.0	0.0
21°	7.4	2.2	0.5	0.0	0.0	0.0
22°	6.9	2.0	0.4	0.0	0.0	0.0
23°	6.4	1.8	0.4	0.0	0.0	0.0
24°	5.8	1.6	0.2	0.0	0.0	0.0
25°	5.4	1.5	0.2	0.0	0.0	0.0
26°	5.1	1.3	0.2	0.0	0.0	0.0
27°	4.5	1.1	0.0	0.0	0.0	0.0
28°	4.2	0.9	0.0	0.0	0.0	0.0
29°	3.6	0.7	0.0	0.0	0.0	0.0
30°	3.1	0.5	0.0	0.0	0.0	0.0
31°	2.5	0.5	0.0	0.0	0.0	0.0
32°	2.2	0.4	0.0	0.0	0.0	0.0
33°	1.8	0.4	0.0	0.0	0.0	0.0
34°	1.6	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°	0.7	0.2	0.0	0.0	0.0	0.0
39°	0.5	0.0	0.0	0.0	0.0	0.0
40°	0.5	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	0.5
52.5°	0.0	0.4	0.2	0.2	0.5	0.5
55°	0.2	0.4	0.2	0.4	0.7	0.7
57.5°	0.2	0.4	0.4	0.5	0.7	0.9
60°	0.4	0.5	0.5	0.5	0.9	0.9
62.5°	0.4	0.5	0.7	0.7	0.9	1.1
65°	0.4	0.7	0.7	0.7	0.9	1.1
67.5°	0.5	0.7	0.7	0.7	0.9	1.1
70°	0.5	0.7	0.7	0.7	0.9	0.9
72.5°	0.5	0.7	0.5	0.7	0.7	0.9
75°	0.5	0.7	0.5	0.5	0.7	0.7
77.5°	0.4	0.5	0.5	0.4	0.5	0.5
80°	0.4	0.5	0.4	0.4	0.5	0.5



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.4	0.5	0.4	0.2	0.4	0.4
85°	0.4	0.5	0.4	0.2	0.2	0.2
87.5°	0.4	0.5	0.4	0.2	0.0	0.2
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)