

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: P1336984

Luminaire Tested: P3A05R209835DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1336984
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: P3A05R209835DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R20 optic, 3500K CCT AND, 98CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

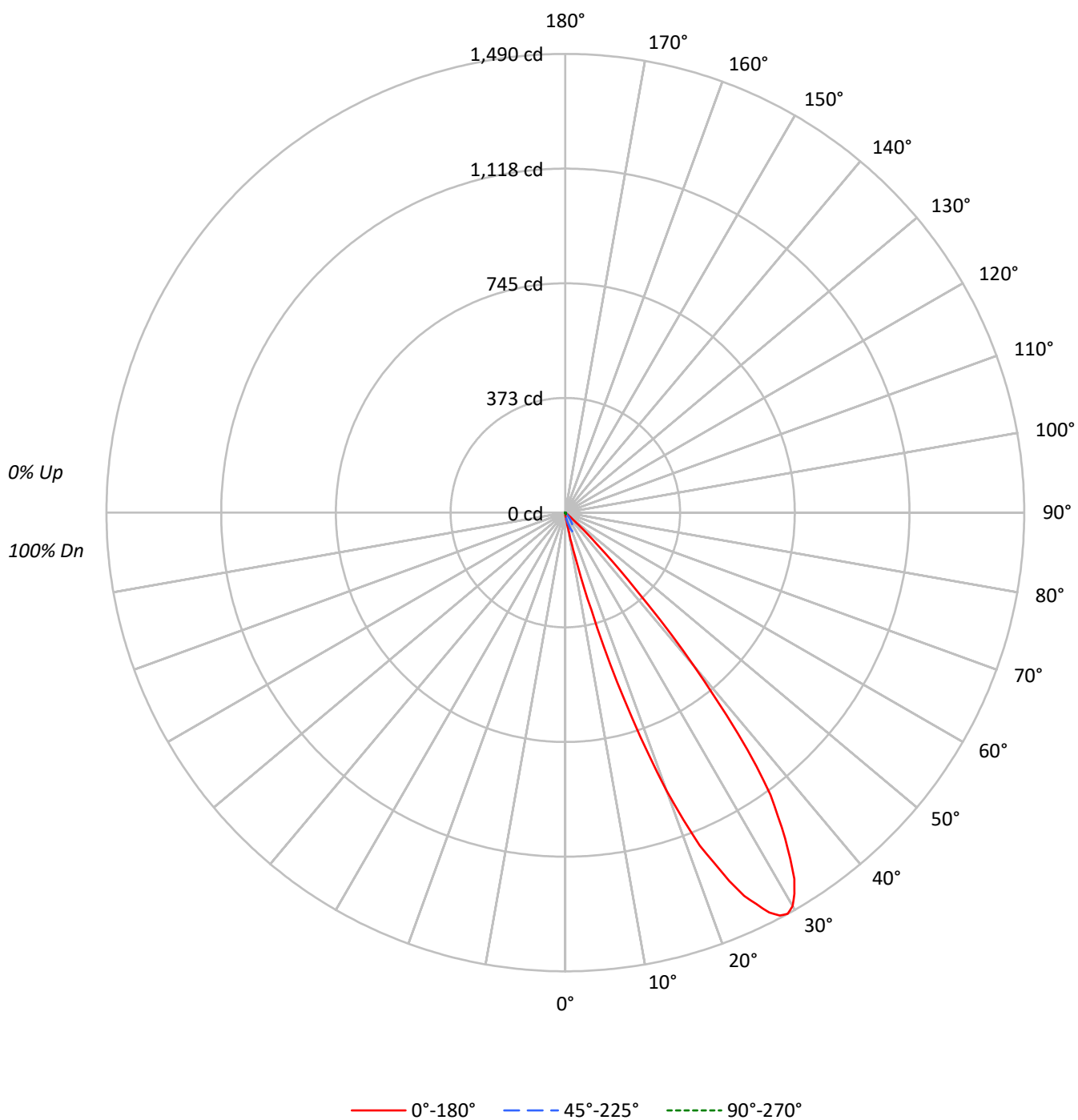
Lumens per Lamp: N/A
Luminaire Lumens: 209.1 lumens
Efficiency: N/A
Efficacy: 29.0 lumens/watt
Spacing Criteria (0/90/45): 2.3 / 0.54 / 1.19
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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

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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	75	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°	1579	1579	1579	1579	1579
5°	3632	2707	1497	924	792
10°	11445	4720	1225	512	379
15°	74121	8740	908	182	45
20°	223716	14958	630	0	0
25°	332245	15098	363	0	0
30°	373627	11470	152	0	0
35°	322355	6853	107	0	0
40°	185634	2347	0	0	0
45°	45276	930	62	0	62
50°	5424	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: 45555 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.0	0.5
10°-20°	19.4	9.3
20°-30°	84.4	40.4
30°-40°	85.0	40.7
40°-50°	17.1	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°	104.8	50.1
0°-40°	189.8	90.8
0°-60°	207.7	99.3
0°-90°	209.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	209.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	7	7	7	7	7	
5°	16	12	7	4	4	3
15°	326	38	4	1	0	128
25°	1373	62	2	0	0	619
35°	1204	26	0	0	0	717
45°	146	3	0	0	0	159
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	

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CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2
2.5°	10.8	10.8	10.6	10.6	10.4	10.6	10.2	10.4	10.4	10.2	9.3
5°	16.5	16.9	16.7	16.7	16.5	16.7	16.3	15.9	15.5	15.5	12.3
7.5°	27.1	26.9	26.5	26.7	26.2	25.8	25.4	25.2	24.1	23.5	16.1
10°	51.4	52.5	51.6	51.4	48.0	47.8	45.5	42.3	39.4	37.9	21.2
12.5°	141.5	147.5	138.0	133.5	130.8	120.6	116.2	105.0	94.2	86.1	26.9
15°	326.5	341.5	322.3	323.7	307.7	278.5	252.9	230.9	205.0	178.8	38.5
17.5°	639.8	627.6	617.2	599.6	567.1	524.3	469.1	413.2	364.8	314.2	53.7
20°	958.7	947.9	924.2	885.7	844.3	780.8	715.2	631.2	549.9	473.7	64.1
21°	1068.5	1064.9	1026.0	1002.3	938.6	877.9	802.3	712.4	620.8	530.5	65.8
22°	1166.5	1144.9	1124.0	1088.9	1025.6	959.6	875.4	780.8	681.5	581.2	66.0
23°	1234.4	1224.5	1204.8	1165.2	1102.2	1024.7	935.9	836.9	732.3	617.0	65.4
24°	1309.5	1296.9	1268.1	1221.9	1158.3	1081.7	980.5	882.3	768.5	647.1	63.9
25°	1373.2	1353.6	1319.5	1269.6	1200.2	1121.2	1019.4	911.5	793.7	667.4	62.4
26°	1414.5	1403.9	1360.1	1305.9	1231.5	1150.0	1046.1	933.8	810.0	676.7	59.9
27°	1457.6	1438.0	1395.0	1332.6	1252.0	1168.8	1061.3	944.6	815.7	677.1	56.9
28°	1482.2	1461.0	1412.2	1346.6	1265.3	1179.2	1070.0	948.1	814.6	671.2	53.3
29°	1490.0	1463.2	1415.6	1348.9	1268.5	1180.0	1068.7	943.1	804.5	656.8	49.1
30°	1475.6	1448.3	1403.1	1338.1	1258.3	1170.5	1056.3	926.8	786.7	636.2	45.3
31°	1444.1	1421.0	1377.3	1312.1	1235.5	1148.3	1028.5	900.1	756.4	608.5	41.0
32°	1402.6	1379.8	1337.0	1278.0	1200.1	1112.1	990.3	858.4	720.7	567.1	36.6
33°	1340.2	1327.1	1288.6	1232.3	1154.4	1060.3	939.2	808.5	669.9	521.2	32.8
34°	1277.0	1260.5	1233.6	1172.0	1088.2	994.3	872.4	739.7	607.9	469.9	29.2
35°	1204.2	1194.4	1152.1	1102.8	1018.6	922.7	801.5	672.7	535.7	412.6	25.6
36°	1133.7	1118.5	1070.4	1018.2	936.5	832.8	713.1	592.2	473.3	358.9	21.8
37°	1031.3	1008.2	973.8	918.9	823.3	734.9	625.7	513.5	396.5	300.9	17.6
38°	910.9	900.1	852.5	797.1	718.1	634.3	526.2	431.0	327.1	251.2	13.5
39°	768.9	768.7	723.2	683.2	605.8	530.3	432.9	349.8	270.0	202.3	10.4
40°	648.5	626.1	598.0	547.8	488.4	424.4	339.0	273.8	209.5	163.1	8.2
42.5°	340.0	338.1	321.6	283.8	250.7	212.9	169.3	141.1	110.4	89.9	5.1
45°	146.0	146.9	135.6	129.9	117.0	101.3	85.5	71.3	61.1	49.5	3.0
47.5°	37.0	35.5	35.1	36.4	36.4	35.3	31.7	29.8	27.5	25.2	1.7
50°	15.9	15.5	15.2	15.2	14.2	13.7	12.7	11.6	10.6	9.5	0.8
52.5°	5.9	6.1	6.3	6.1	6.1	5.9	5.9	5.7	5.1	4.6	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°	7.2	7.2	7.2	7.2	7.2	7.2
2.5°	8.3	7.4	6.3	5.3	5.1	4.9
5°	9.3	6.8	5.1	4.2	3.8	3.6
7.5°	10.0	6.3	4.2	3.0	2.7	2.5
10°	10.4	5.5	3.4	2.3	1.7	1.7
12.5°	10.6	4.7	2.5	1.5	0.9	0.9
15°	10.4	4.0	1.9	0.8	0.2	0.2
17.5°	9.5	3.2	1.1	0.2	0.0	0.0
20°	8.2	2.7	0.8	0.0	0.0	0.0
21°	7.8	2.3	0.6	0.0	0.0	0.0
22°	7.2	2.1	0.4	0.0	0.0	0.0
23°	6.6	1.9	0.4	0.0	0.0	0.0
24°	6.1	1.7	0.2	0.0	0.0	0.0
25°	5.7	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°	4.4	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°	2.7	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)