

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: P1334485

Luminaire Tested: P3A02R209830DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1334485
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: P3A02R209830DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R20 optic, 3000K CCT AND, 98CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

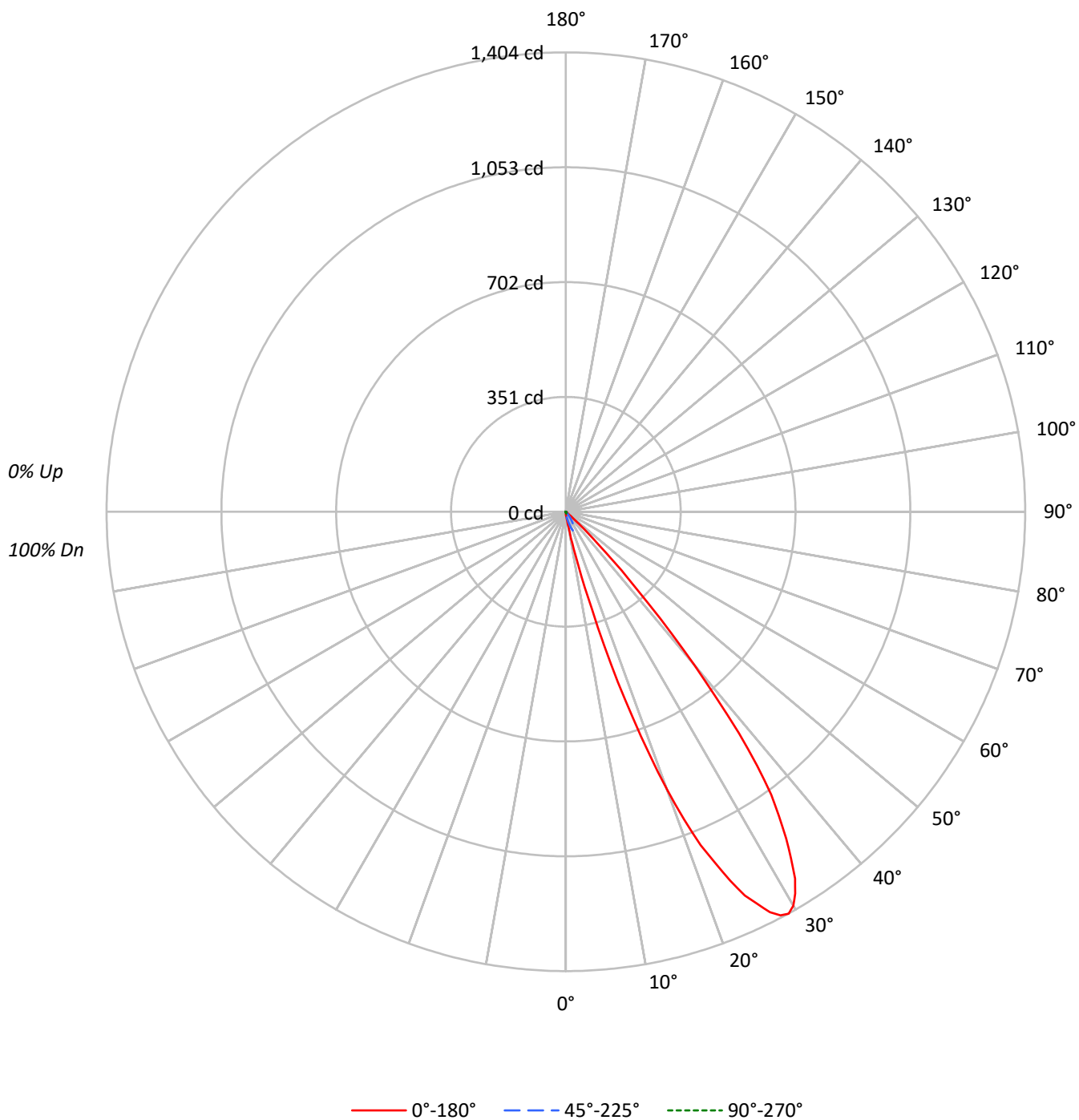
Lumens per Lamp: N/A
Luminaire Lumens: 197.0 lumens
Efficiency: N/A
Efficacy: 54.7 lumens/watt
Spacing Criteria (0/90/45): 2.29 / 0.54 / 1.19
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 3.6
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	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°	1491	1491	1491	1491	1491
5°	3412	2553	1409	858	748
10°	10777	4453	1158	468	356
15°	69876	8241	863	159	45
20°	210858	14095	583	0	0
25°	313155	14227	339	0	0
30°	352155	10812	127	0	0
35°	303858	6451	107	0	0
40°	174956	2204	0	0	0
45°	42671	899	62	0	62
50°	5117	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: 42950 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.9	0.5
10°-20°	18.3	9.3
20°-30°	79.6	40.4
30°-40°	80.1	40.7
40°-50°	16.1	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°	98.7	50.1
0°-40°	178.9	90.8
0°-60°	195.8	99.4
0°-90°	197.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	197.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	7	7	7	7	7	
5°	16	12	6	4	3	2
15°	308	36	4	1	0	121
25°	1294	59	1	0	0	584
35°	1135	24	0	0	0	675
45°	138	3	0	0	0	150
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	

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CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
2.5°	10.2	10.2	10.0	10.0	9.8	10.0	9.7	9.8	9.8	9.7	8.8
5°	15.5	15.9	15.7	15.7	15.5	15.7	15.4	15.0	14.7	14.7	11.6
7.5°	25.6	25.4	25.0	25.2	24.7	24.3	23.9	23.8	22.7	22.2	15.2
10°	48.4	49.5	48.6	48.4	45.2	45.0	42.9	39.9	37.2	35.7	20.0
12.5°	133.3	139.0	130.1	125.8	123.3	113.7	109.6	99.0	88.8	81.1	25.4
15°	307.8	321.9	303.8	305.1	290.1	262.5	238.4	217.7	193.2	168.5	36.3
17.5°	603.0	591.6	581.8	565.1	534.6	494.2	442.2	389.4	343.9	296.1	50.6
20°	903.6	893.4	871.1	834.8	795.9	736.0	674.2	595.0	518.3	446.5	60.4
21°	1007.1	1003.7	967.1	944.7	884.7	827.5	756.2	671.5	585.1	500.1	62.0
22°	1099.5	1079.1	1059.5	1026.4	966.7	904.5	825.2	736.0	642.3	547.8	62.2
23°	1163.5	1154.2	1135.6	1098.3	1038.9	965.8	882.2	788.9	690.2	581.6	61.7
24°	1234.3	1222.5	1195.3	1151.7	1091.8	1019.6	924.2	831.6	724.4	610.0	60.2
25°	1294.3	1275.9	1243.8	1196.7	1131.3	1056.8	960.8	859.1	748.1	629.1	58.8
26°	1333.3	1323.3	1282.0	1230.9	1160.8	1084.0	986.0	880.2	763.5	637.9	56.5
27°	1373.9	1355.5	1314.9	1256.1	1180.1	1101.7	1000.3	890.4	768.9	638.2	53.6
28°	1397.1	1377.1	1331.1	1269.3	1192.6	1111.5	1008.5	893.6	767.8	632.7	50.2
29°	1404.4	1379.2	1334.4	1271.5	1195.7	1112.2	1007.3	889.0	758.3	619.1	46.3
30°	1390.8	1365.1	1322.6	1261.3	1186.0	1103.3	995.7	873.6	741.5	599.6	42.7
31°	1361.2	1339.4	1298.3	1236.8	1164.6	1082.4	969.4	848.4	712.9	573.5	38.6
32°	1322.0	1300.6	1260.2	1204.6	1131.2	1048.2	933.5	809.1	679.3	534.6	34.5
33°	1263.2	1250.9	1214.6	1161.5	1088.1	999.4	885.2	762.1	631.4	491.3	30.9
34°	1203.7	1188.2	1162.8	1104.7	1025.7	937.2	822.3	697.2	573.0	442.9	27.5
35°	1135.1	1125.8	1085.9	1039.5	960.1	869.7	755.5	634.1	504.9	388.9	24.1
36°	1068.6	1054.3	1008.9	959.8	882.7	785.0	672.2	558.2	446.1	338.3	20.6
37°	972.1	950.3	917.9	866.1	776.0	692.7	589.8	484.0	373.7	283.6	16.6
38°	858.6	848.4	803.6	751.4	676.8	597.8	496.0	406.2	308.3	236.8	12.7
39°	724.7	724.6	681.7	643.9	571.0	499.9	408.0	329.7	254.5	190.7	9.8
40°	611.2	590.2	563.7	516.3	460.4	400.0	319.6	258.1	197.5	153.7	7.7
42.5°	320.5	318.7	303.1	267.6	236.3	200.7	159.6	133.0	104.0	84.7	4.8
45°	137.6	138.5	127.8	122.4	110.3	95.4	80.6	67.2	57.5	46.6	2.9
47.5°	34.9	33.4	33.1	34.3	34.3	33.2	29.8	28.1	25.9	23.8	1.6
50°	15.0	14.7	14.3	14.3	13.4	12.9	12.0	10.9	10.0	8.9	0.7
52.5°	5.5	5.7	5.9	5.7	5.7	5.5	5.5	5.4	4.8	4.3	0.4
55°	1.8	1.8	1.8	2.0	2.0	2.1	2.1	2.1	2.1	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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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	6.8	6.8	6.8	6.8	6.8	6.8
2.5°	7.9	7.0	5.9	5.0	4.8	4.6
5°	8.8	6.4	4.8	3.9	3.6	3.4
7.5°	9.5	5.9	3.9	2.9	2.5	2.3
10°	9.8	5.2	3.2	2.1	1.6	1.6
12.5°	10.0	4.5	2.3	1.4	0.9	0.9
15°	9.8	3.8	1.8	0.7	0.2	0.2
17.5°	8.9	3.0	1.1	0.2	0.0	0.0
20°	7.7	2.5	0.7	0.0	0.0	0.0
21°	7.3	2.1	0.5	0.0	0.0	0.0
22°	6.8	2.0	0.4	0.0	0.0	0.0
23°	6.3	1.8	0.4	0.0	0.0	0.0
24°	5.7	1.6	0.2	0.0	0.0	0.0
25°	5.4	1.4	0.2	0.0	0.0	0.0
26°	5.0	1.3	0.2	0.0	0.0	0.0
27°	4.5	1.1	0.0	0.0	0.0	0.0
28°	4.1	0.9	0.0	0.0	0.0	0.0
29°	3.6	0.7	0.0	0.0	0.0	0.0
30°	3.0	0.5	0.0	0.0	0.0	0.0
31°	2.5	0.5	0.0	0.0	0.0	0.0
32°	2.1	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°	1.4	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)