

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: P1334161

Luminaire Tested: P3A02R159830DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1334161
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-59)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A02R159830DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R15 optic, 3000K CCT AND, 98CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

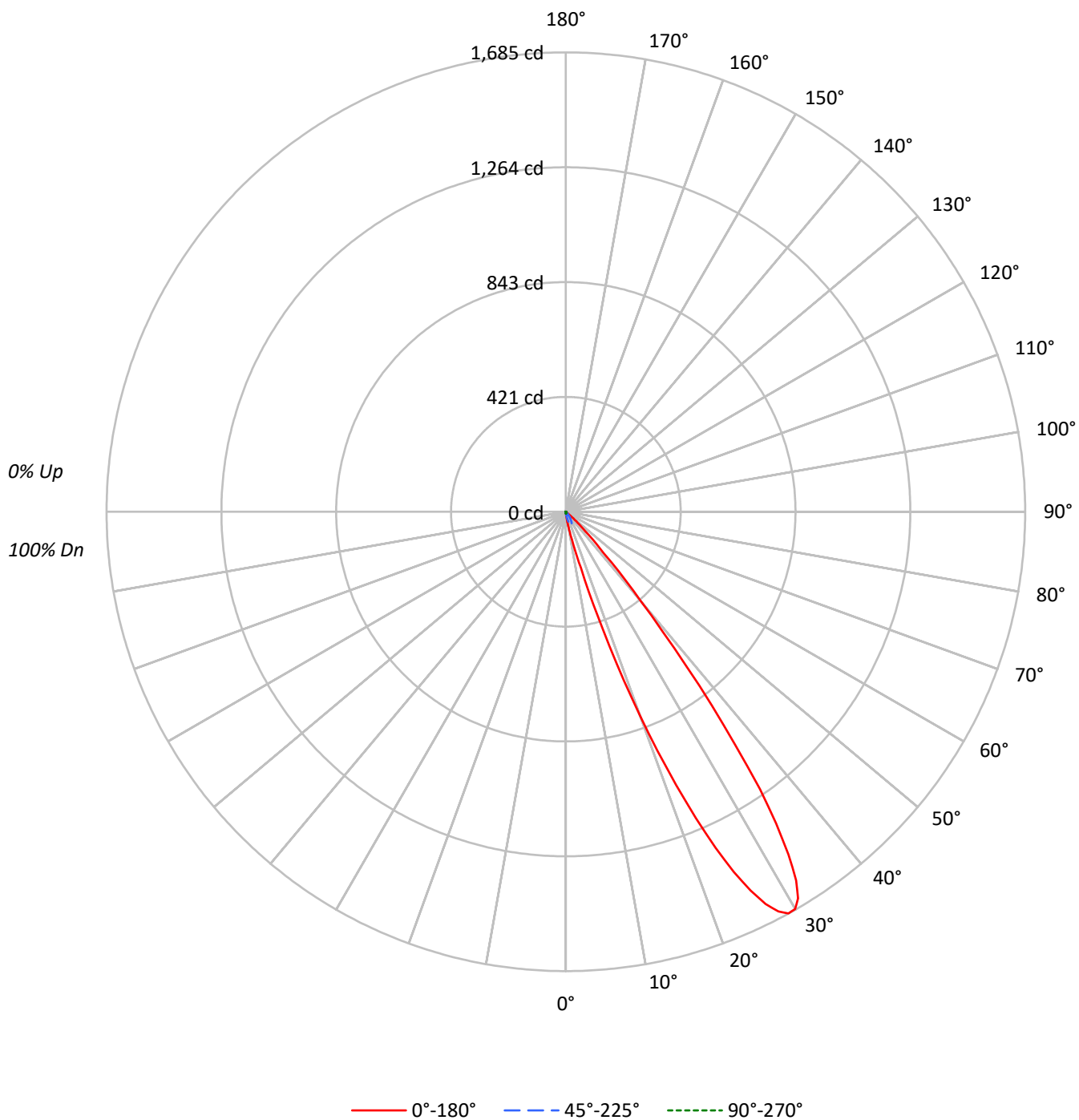
Lumens per Lamp: N/A
Luminaire Lumens: 184.0 lumens
Efficiency: N/A
Efficacy: 51.1 lumens/watt
Spacing Criteria (0/90/45): 2.35 / 0.49 / 1.26
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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			0
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	98	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	70	77	73	70	68		
5	87	77	70	65	85	76	70	65	74	69	64	72	67	64	71	66	63	61		
6	81	71	64	59	80	70	63	58	68	62	58	67	61	57	65	61	57	55		
7	76	65	58	53	74	64	57	53	63	57	52	61	56	52	60	55	52	50		
8	71	60	52	48	70	59	52	47	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	42	41		
10	62	51	44	39	61	50	43	39	49	43	39	48	43	39	47	42	39	37		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	1338	1338	1338	1338	1338
5°	2884	2135	1255	660	550
10°	12759	4030	1002	289	200
15°	48241	9308	681	114	91
20°	185493	13114	420	47	47
25°	352714	12291	218	0	0
30°	426091	9926	101	0	0
35°	332313	6746	54	0	0
40°	121284	3321	57	0	57
45°	31135	992	62	0	124
50°	5254	136	68	68	171
55°	688	0	153	191	344
60°	88	88	219	307	482
65°	104	104	363	467	571
70°	128	128	449	449	577
75°	169	169	593	424	593
80°	0	253	631	505	631
85°	0	503	1258	503	503

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 31135 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.8	0.5
10°-20°	14.1	7.7
20°-30°	78.2	42.5
30°-40°	75.6	41.1
40°-50°	13.1	7.1
50°-60°	0.9	0.5
60°-70°	0.6	0.3
70°-80°	0.5	0.2
80°-90°	0.2	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°	93.1	50.6
0°-40°	168.7	91.7
0°-60°	182.8	99.3
0°-90°	184.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	184.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	6	6	6	6	6	
5°	13	10	6	3	2	3
15°	212	41	3	0	0	95
25°	1458	51	1	0	0	652
35°	1241	25	0	0	0	714
45°	100	3	0	0	0	108
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°	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1
2.5°	8.9	8.6	8.8	8.8	8.8	8.8	8.8	8.4	8.4	8.6	7.7
5°	13.1	13.1	12.9	13.1	13.1	12.9	12.5	12.4	12.4	12.0	9.7
7.5°	26.1	25.8	25.8	25.4	23.6	23.1	22.7	21.8	20.2	19.9	12.5
10°	57.3	57.5	56.2	54.6	54.4	51.7	50.8	49.2	46.2	43.1	18.1
12.5°	104.0	101.7	98.6	98.8	93.6	91.8	87.7	83.2	78.6	73.7	29.7
15°	212.5	205.8	209.8	200.1	189.2	176.8	164.3	148.6	135.1	120.8	41.0
17.5°	447.5	453.9	443.0	401.6	376.2	346.3	304.3	263.6	228.9	201.0	50.1
20°	794.9	804.4	767.3	731.3	669.6	602.3	532.1	452.7	376.6	310.7	56.2
21°	940.0	934.3	919.1	861.5	790.2	712.2	626.3	538.6	446.4	360.8	56.7
22°	1080.4	1083.0	1047.6	987.3	913.2	826.7	721.8	613.6	514.2	401.6	55.8
23°	1220.1	1228.7	1181.8	1125.3	1032.0	934.5	813.1	696.3	573.5	448.4	54.1
24°	1349.6	1343.6	1312.0	1240.7	1141.0	1026.8	900.8	759.1	622.2	488.3	52.6
25°	1457.8	1457.1	1407.4	1338.1	1224.1	1097.5	958.6	810.4	663.9	515.3	50.8
26°	1546.4	1531.9	1492.7	1408.3	1295.7	1162.2	1006.1	847.9	687.3	528.9	49.0
27°	1614.8	1604.4	1551.8	1463.9	1346.3	1198.7	1036.5	866.5	698.0	533.4	46.7
28°	1660.8	1649.5	1593.5	1502.9	1374.3	1221.6	1052.6	874.3	698.0	529.1	44.6
29°	1684.6	1669.2	1613.4	1516.4	1380.7	1224.3	1048.7	866.6	687.1	515.8	42.1
30°	1682.8	1663.7	1605.1	1504.2	1361.5	1202.2	1026.7	838.9	662.4	496.1	39.2
31°	1653.8	1632.3	1567.0	1463.0	1322.0	1160.7	985.1	801.7	628.6	470.6	36.3
32°	1594.9	1567.7	1504.0	1400.4	1261.1	1098.6	924.8	744.2	577.9	433.1	33.3
33°	1499.0	1471.6	1403.2	1306.1	1178.8	1019.9	844.8	682.5	520.3	388.6	30.8
34°	1378.9	1353.8	1295.0	1197.1	1075.0	920.2	752.8	597.1	460.5	344.4	28.1
35°	1241.4	1201.5	1148.2	1070.7	951.7	795.9	653.5	517.6	399.0	298.0	25.2
36°	1055.5	1062.6	1006.1	911.2	812.6	690.5	553.8	431.5	333.6	254.0	22.7
37°	890.6	879.4	843.4	770.0	684.1	562.9	464.1	365.8	280.6	214.8	20.0
38°	718.4	721.0	685.7	629.3	544.1	462.9	373.5	300.5	234.8	182.7	17.5
39°	562.4	560.4	550.9	498.7	421.5	368.2	302.7	249.1	195.6	154.1	14.9
40°	423.7	426.9	404.7	373.2	328.3	284.4	241.1	198.7	161.8	129.9	11.6
42.5°	206.0	211.0	196.3	188.3	168.4	151.2	127.6	104.2	88.6	76.6	5.2
45°	100.4	97.5	96.3	92.4	87.7	78.4	69.4	59.6	52.1	44.9	3.2
47.5°	51.4	49.9	49.9	48.3	46.7	43.7	39.2	36.0	32.4	27.9	1.3
50°	15.4	15.2	15.0	15.2	14.7	15.2	15.6	15.8	14.3	14.1	0.4
52.5°	6.1	6.3	6.1	6.6	6.6	6.4	6.6	6.4	6.3	5.5	0.0
55°	1.8	1.8	1.8	1.8	1.8	1.8	2.0	2.1	2.0	2.1	0.0
57.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.0
60°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.2
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	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
75°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	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°	6.1	6.1	6.1	6.1	6.1	6.1
2.5°	7.2	6.3	5.2	4.3	3.9	3.8
5°	7.7	5.7	3.9	3.0	2.7	2.5
7.5°	8.2	5.2	3.0	2.1	1.6	1.4
10°	8.6	4.5	2.3	1.3	0.9	0.9
12.5°	8.6	3.6	1.6	0.7	0.5	0.5
15°	8.4	3.0	1.1	0.5	0.4	0.4
17.5°	8.2	2.3	0.7	0.4	0.2	0.4
20°	7.7	1.8	0.4	0.2	0.2	0.2
21°	7.5	1.6	0.4	0.2	0.2	0.2
22°	7.2	1.4	0.2	0.0	0.2	0.2
23°	6.8	1.1	0.2	0.0	0.0	0.0
24°	6.3	0.9	0.2	0.0	0.0	0.0
25°	5.9	0.9	0.2	0.0	0.0	0.0
26°	5.5	0.5	0.0	0.0	0.0	0.0
27°	5.0	0.4	0.0	0.0	0.0	0.0
28°	4.7	0.4	0.0	0.0	0.0	0.0
29°	4.1	0.4	0.0	0.0	0.0	0.0
30°	3.6	0.4	0.0	0.0	0.0	0.0
31°	2.9	0.2	0.0	0.0	0.0	0.0
32°	2.3	0.2	0.0	0.0	0.0	0.0
33°	1.6	0.2	0.0	0.0	0.0	0.0
34°	1.1	0.2	0.0	0.0	0.0	0.0
35°	0.9	0.2	0.0	0.0	0.0	0.0
36°	0.5	0.2	0.0	0.0	0.0	0.2
37°	0.5	0.2	0.0	0.0	0.0	0.2
38°	0.4	0.2	0.0	0.0	0.0	0.2
39°	0.2	0.2	0.0	0.0	0.0	0.2
40°	0.2	0.2	0.0	0.0	0.0	0.2
42.5°	0.0	0.2	0.0	0.0	0.2	0.4
45°	0.0	0.2	0.0	0.0	0.2	0.4
47.5°	0.0	0.2	0.0	0.0	0.4	0.4
50°	0.0	0.2	0.2	0.2	0.4	0.5
52.5°	0.0	0.4	0.2	0.4	0.5	0.7
55°	0.2	0.4	0.4	0.5	0.7	0.9
57.5°	0.2	0.5	0.5	0.7	0.9	0.9
60°	0.4	0.5	0.7	0.7	1.1	1.1
62.5°	0.4	0.7	0.7	0.7	1.1	1.1
65°	0.4	0.7	0.7	0.9	1.1	1.1
67.5°	0.4	0.7	0.7	0.7	0.9	1.1
70°	0.4	0.7	0.5	0.7	0.9	0.9
72.5°	0.4	0.7	0.5	0.5	0.7	0.9
75°	0.4	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	0.2	0.0	0.0	0.2
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)