

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: P1335813

Luminaire Tested: P3A02R409830DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1335813
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-64)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A02R409830DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R40 optic, 3000K CCT AND, 98CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

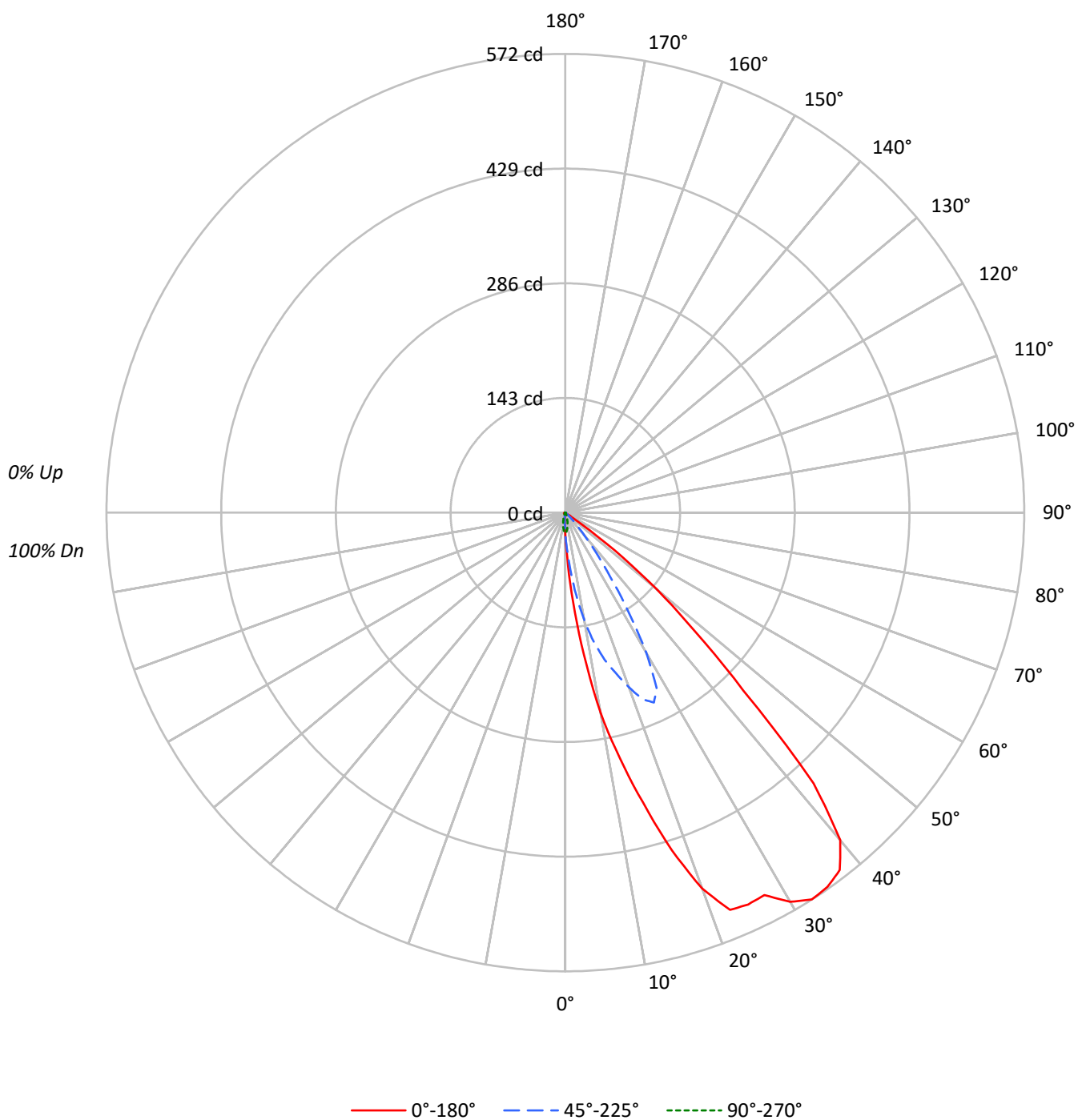
Lumens per Lamp: N/A
Luminaire Lumens: 211.0 lumens
Efficiency: N/A
Efficacy: 58.6 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.41 / 1.24
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	102	102	100
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	93	93	91
2	105	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	84	84	82
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	76	76	74
4	92	83	77	71	90	82	76	71	80	74	70	78	73	69	76	72	68	68	68	67
5	86	76	69	64	84	75	68	64	73	67	63	71	66	62	70	65	62	62	62	60
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	60	56	56	56	54
7	75	64	57	52	74	63	56	51	62	56	51	61	55	51	59	54	51	51	51	49
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	46	46	44
9	66	54	47	42	65	54	47	42	53	46	42	52	46	42	51	46	42	42	42	40
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	38	38	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	5482	5482	5482	5482	5482
5°	24697	15738	4909	1893	1365
10°	56623	30416	3451	668	512
15°	84972	43156	2157	363	318
20°	116350	54091	1260	210	257
25°	130435	63221	653	169	218
30°	141870	51021	279	127	228
35°	152478	26100	107	187	294
40°	152543	10420	57	200	344
45°	97374	3473	124	341	496
50°	50557	409	171	409	614
55°	4358	76	191	535	765
60°	175	88	219	614	877
65°	208	104	363	623	934
70°	128	128	449	705	898
75°	169	169	424	763	1017
80°	253	253	631	631	884
85°	0	503	1258	1006	1006

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 97374 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.9	2.3
10°-20°	28.6	13.5
20°-30°	62.5	29.6
30°-40°	71.3	33.8
40°-50°	37.6	17.8
50°-60°	4.4	2.1
60°-70°	0.8	0.4
70°-80°	0.7	0.3
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°	96.0	45.5
0°-40°	167.2	79.2
0°-60°	209.3	99.2
0°-90°	211.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	211.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	25	25	25	25	25	
5°	112	72	22	9	6	15
15°	374	190	10	2	1	110
25°	539	261	3	1	1	248
35°	570	98	0	1	1	353
45°	314	11	0	1	2	253
55°	11	0	0	1	2	35
65°	0	0	1	1	2	0
75°	0	0	0	1	1	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	67.5°
0°	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
2.5°	55.6	55.6	55.5	53.9	53.7	53.5	50.6	49.9	46.5	44.2	33.7
5°	112.2	109.7	109.5	106.6	101.8	95.4	91.3	84.7	78.3	71.5	41.6
7.5°	178.7	180.8	174.9	171.9	161.2	153.5	141.8	131.4	117.0	103.4	48.0
10°	254.3	250.6	244.7	238.8	227.2	213.5	196.0	177.6	156.8	136.6	51.5
12.5°	313.3	308.5	305.0	296.9	285.5	267.9	247.0	222.4	194.7	165.7	51.4
15°	374.3	369.5	361.5	354.3	337.4	317.6	295.0	262.5	228.6	190.1	47.6
17.5°	441.4	435.1	426.2	415.3	398.9	377.0	348.3	308.7	260.7	210.1	40.8
20°	498.6	494.9	486.0	473.1	457.1	435.7	402.5	358.6	300.1	231.8	32.5
22.5°	536.1	532.7	526.6	515.4	503.3	480.4	450.1	402.0	333.1	251.6	24.6
25°	539.1	537.7	536.1	532.3	525.0	508.8	479.2	427.3	353.6	261.3	18.2
27.5°	537.5	537.0	536.6	534.6	529.8	513.8	483.5	431.0	351.0	246.3	13.4
30°	560.3	558.7	557.8	551.4	538.7	514.0	474.4	410.9	311.9	201.5	9.6
32.5°	571.9	571.6	570.7	564.4	546.6	514.3	459.0	362.2	247.3	145.5	6.6
35°	569.6	567.8	564.6	553.0	528.2	487.7	409.5	289.3	178.5	97.5	4.3
37.5°	561.8	557.6	551.4	530.5	497.6	442.3	332.1	212.9	121.4	63.1	2.5
40°	532.9	527.3	517.5	492.0	448.7	364.5	245.6	143.9	79.7	36.4	0.7
42.5°	458.1	451.0	443.9	415.3	365.8	271.8	161.6	89.0	45.5	20.0	0.2
45°	314.0	305.1	295.3	274.6	234.9	164.6	96.1	50.1	23.5	11.2	0.2
47.5°	218.1	214.0	196.9	170.5	130.7	87.2	49.8	24.6	12.5	5.2	0.2
50°	148.2	143.6	123.6	98.1	69.6	41.7	22.8	12.3	5.5	1.2	0.2
52.5°	77.8	72.0	59.4	45.3	28.2	17.5	10.0	5.4	1.6	0.2	0.2
55°	11.4	10.5	8.6	7.0	6.2	4.8	2.9	1.2	0.2	0.2	0.4
57.5°	0.4	0.4	0.4	0.4	0.5	0.5	0.4	0.2	0.2	0.2	0.4
60°	0.4	0.4	0.4	0.4	0.4	0.2	0.2	0.2	0.2	0.2	0.4
62.5°	0.4	0.4	0.4	0.4	0.4	0.2	0.2	0.2	0.2	0.2	0.4
65°	0.4	0.4	0.4	0.4	0.4	0.2	0.2	0.2	0.2	0.2	0.4
67.5°	0.4	0.4	0.4	0.4	0.2	0.2	0.2	0.2	0.2	0.4	0.5
70°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.5
72.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.5
75°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.5
77.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.5
80°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4
82.5°	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.4
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):

	90°	112.5°	135°	157.5°	180°
0°	25.0	25.0	25.0	25.0	25.0
2.5°	24.6	18.2	14.1	12.1	11.9
5°	22.3	13.0	8.6	6.6	6.2
7.5°	18.9	9.1	5.0	3.6	3.4
10°	15.5	6.2	3.0	2.5	2.3
12.5°	12.3	4.1	2.1	2.0	1.8
15°	9.5	2.7	1.6	1.4	1.4
17.5°	7.1	1.8	1.2	1.2	1.2
20°	5.4	1.2	0.9	1.1	1.1
22.5°	3.7	0.9	0.7	0.9	0.9
25°	2.7	0.7	0.7	0.9	0.9
27.5°	1.8	0.5	0.5	0.7	0.9
30°	1.1	0.4	0.5	0.7	0.9
32.5°	0.5	0.4	0.5	0.9	0.9
35°	0.4	0.5	0.7	0.9	1.1
37.5°	0.2	0.5	0.7	1.1	1.1
40°	0.2	0.5	0.7	1.1	1.2
42.5°	0.4	0.7	0.9	1.2	1.4
45°	0.4	0.7	1.1	1.4	1.6
47.5°	0.4	0.7	1.2	1.6	1.6
50°	0.5	0.9	1.2	1.6	1.8
52.5°	0.5	0.9	1.2	1.8	2.0
55°	0.5	0.9	1.4	1.8	2.0
57.5°	0.5	1.1	1.4	1.8	2.0
60°	0.5	0.9	1.4	1.8	2.0
62.5°	0.7	0.9	1.2	1.8	1.8
65°	0.7	0.9	1.2	1.8	1.8
67.5°	0.7	0.9	1.2	1.6	1.6
70°	0.7	0.9	1.1	1.4	1.4
72.5°	0.7	0.9	1.1	1.2	1.4
75°	0.5	0.7	0.9	1.1	1.2
77.5°	0.5	0.7	0.7	1.1	1.1
80°	0.5	0.5	0.5	0.7	0.7
82.5°	0.5	0.5	0.4	0.5	0.5
85°	0.5	0.4	0.4	0.4	0.4
87.5°	0.4	0.4	0.2	0.2	0.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)