

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: P1335717

Luminaire Tested: P3A02R409050DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1335717
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: P3A02R409050DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R40 optic, 5000K CCT AND, 90CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

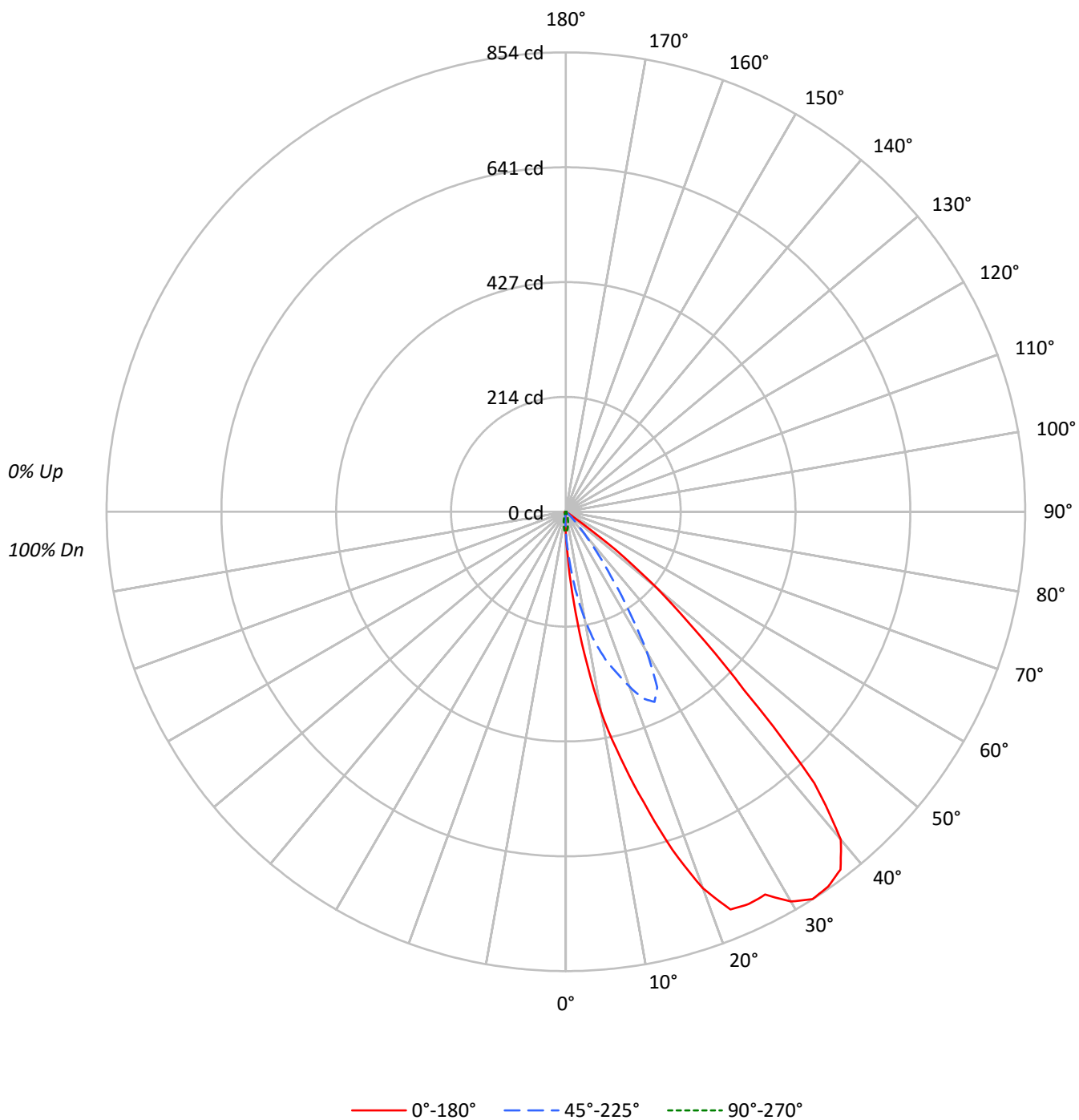
Lumens per Lamp: N/A
Luminaire Lumens: 315.0 lumens
Efficiency: N/A
Efficacy: 87.5 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.42 / 1.24
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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°	8179	8179	8179	8179	8179
5°	36870	23509	7330	2818	2047
10°	84523	45401	5166	1002	779
15°	126857	64427	3201	545	477
20°	173708	80764	1867	303	373
25°	194721	94360	968	266	315
30°	211805	76164	405	203	329
35°	227619	38976	134	294	428
40°	227712	15543	86	315	544
45°	145379	5210	155	496	744
50°	75460	648	273	648	921
55°	6499	115	306	803	1109
60°	219	132	351	921	1272
65°	259	156	571	986	1401
70°	192	192	705	1026	1346
75°	254	254	678	1101	1610
80°	379	379	1010	1010	1389
85°	0	755	2013	1258	1258

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 145379 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.3	2.3
10°-20°	42.6	13.5
20°-30°	93.4	29.6
30°-40°	106.4	33.8
40°-50°	56.1	17.8
50°-60°	6.6	2.1
60°-70°	1.2	0.4
70°-80°	1.0	0.3
80°-90°	0.4	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°	143.3	45.5
0°-40°	249.6	79.2
0°-60°	312.4	99.2
0°-90°	315.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	315.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	37	37	37	37	37	
5°	168	107	33	13	9	23
15°	559	284	14	2	2	165
25°	805	390	4	1	1	371
35°	850	146	0	1	2	527
45°	469	17	0	2	2	378
55°	17	0	1	2	3	53
65°	0	0	1	2	3	0
75°	0	0	1	1	2	0
85°	0	0	1	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°	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3
2.5°	83.1	83.1	82.8	80.4	80.1	79.9	75.6	74.5	69.5	66.0	50.3
5°	167.5	163.7	163.5	159.2	152.0	142.4	136.3	126.5	116.9	106.8	62.0
7.5°	266.8	270.0	261.2	256.6	240.7	229.2	211.7	196.2	174.6	154.4	71.6
10°	379.6	374.1	365.3	356.5	339.2	318.7	292.6	265.2	234.0	203.9	76.9
12.5°	467.8	460.6	455.3	443.3	426.2	399.9	368.7	332.0	290.7	247.3	76.7
15°	558.8	551.6	539.7	529.0	503.7	474.2	440.3	391.9	341.3	283.8	71.1
17.5°	658.9	649.6	636.3	620.1	595.6	562.8	520.0	460.8	389.2	313.6	61.0
20°	744.4	738.8	725.5	706.3	682.4	650.4	600.9	535.4	448.1	346.1	48.5
22.5°	800.3	795.2	786.2	769.4	751.3	717.2	672.0	600.1	497.3	375.7	36.7
25°	804.8	802.7	800.3	794.7	783.8	759.6	715.4	637.9	527.9	390.0	27.2
27.5°	802.4	801.6	801.1	798.2	791.0	767.0	721.8	643.5	523.9	367.7	20.0
30°	836.5	834.1	832.8	823.2	804.3	767.3	708.2	613.4	465.6	300.8	14.4
32.5°	853.8	853.3	851.9	842.6	816.0	767.8	685.3	540.7	369.3	217.2	9.9
35°	850.3	847.7	842.9	825.6	788.6	728.1	611.3	431.8	266.5	145.6	6.4
37.5°	838.6	832.5	823.2	792.0	742.8	660.3	495.7	317.9	181.3	94.2	3.7
40°	795.5	787.2	772.6	734.5	669.8	544.2	366.6	214.8	119.0	54.3	1.1
42.5°	684.0	673.3	662.7	620.1	546.0	405.7	241.2	132.8	67.9	29.8	0.3
45°	468.8	455.5	440.9	410.0	350.6	245.7	143.5	74.8	35.1	16.8	0.3
47.5°	325.6	319.5	293.9	254.5	195.1	130.2	74.3	36.7	18.6	7.7	0.3
50°	221.2	214.3	184.5	146.4	103.8	62.3	34.1	18.4	8.3	1.9	0.3
52.5°	116.1	107.6	88.7	67.6	42.1	26.1	14.9	8.0	2.4	0.3	0.3
55°	17.0	15.7	12.8	10.4	9.3	7.2	4.3	1.9	0.3	0.3	0.5
57.5°	0.5	0.5	0.5	0.5	0.8	0.8	0.5	0.3	0.3	0.3	0.5
60°	0.5	0.5	0.5	0.5	0.5	0.3	0.3	0.3	0.3	0.3	0.5
62.5°	0.5	0.5	0.5	0.5	0.5	0.3	0.3	0.3	0.3	0.3	0.5
65°	0.5	0.5	0.5	0.5	0.5	0.3	0.3	0.3	0.3	0.3	0.5
67.5°	0.5	0.5	0.5	0.5	0.3	0.3	0.3	0.3	0.3	0.5	0.8
70°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.8
72.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.8
75°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.8
77.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.8
80°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.5
82.5°	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.5
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°	37.3	37.3	37.3	37.3	37.3
2.5°	36.7	27.2	21.0	18.1	17.8
5°	33.3	19.4	12.8	9.9	9.3
7.5°	28.2	13.6	7.5	5.3	5.1
10°	23.2	9.3	4.5	3.7	3.5
12.5°	18.4	6.1	3.2	2.9	2.7
15°	14.1	4.0	2.4	2.1	2.1
17.5°	10.6	2.7	1.9	1.9	1.9
20°	8.0	1.9	1.3	1.6	1.6
22.5°	5.6	1.3	1.1	1.3	1.3
25°	4.0	1.1	1.1	1.3	1.3
27.5°	2.7	0.8	0.8	1.1	1.3
30°	1.6	0.5	0.8	1.1	1.3
32.5°	0.8	0.5	0.8	1.3	1.3
35°	0.5	0.8	1.1	1.3	1.6
37.5°	0.3	0.8	1.1	1.6	1.6
40°	0.3	0.8	1.1	1.6	1.9
42.5°	0.5	1.1	1.3	1.9	2.1
45°	0.5	1.1	1.6	2.1	2.4
47.5°	0.5	1.1	1.9	2.4	2.4
50°	0.8	1.3	1.9	2.4	2.7
52.5°	0.8	1.3	1.9	2.7	2.9
55°	0.8	1.3	2.1	2.7	2.9
57.5°	0.8	1.6	2.1	2.7	2.9
60°	0.8	1.3	2.1	2.7	2.9
62.5°	1.1	1.3	1.9	2.7	2.7
65°	1.1	1.3	1.9	2.7	2.7
67.5°	1.1	1.3	1.9	2.4	2.4
70°	1.1	1.3	1.6	2.1	2.1
72.5°	1.1	1.3	1.6	1.9	2.1
75°	0.8	1.1	1.3	1.6	1.9
77.5°	0.8	1.1	1.1	1.6	1.6
80°	0.8	0.8	0.8	1.1	1.1
82.5°	0.8	0.8	0.5	0.8	0.8
85°	0.8	0.5	0.5	0.5	0.5
87.5°	0.5	0.5	0.3	0.3	0.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)