

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: P1335749

Luminaire Tested: P3A02R409730DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1335749
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: P3A02R409730DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R40 optic, 3000K CCT AND, 97CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

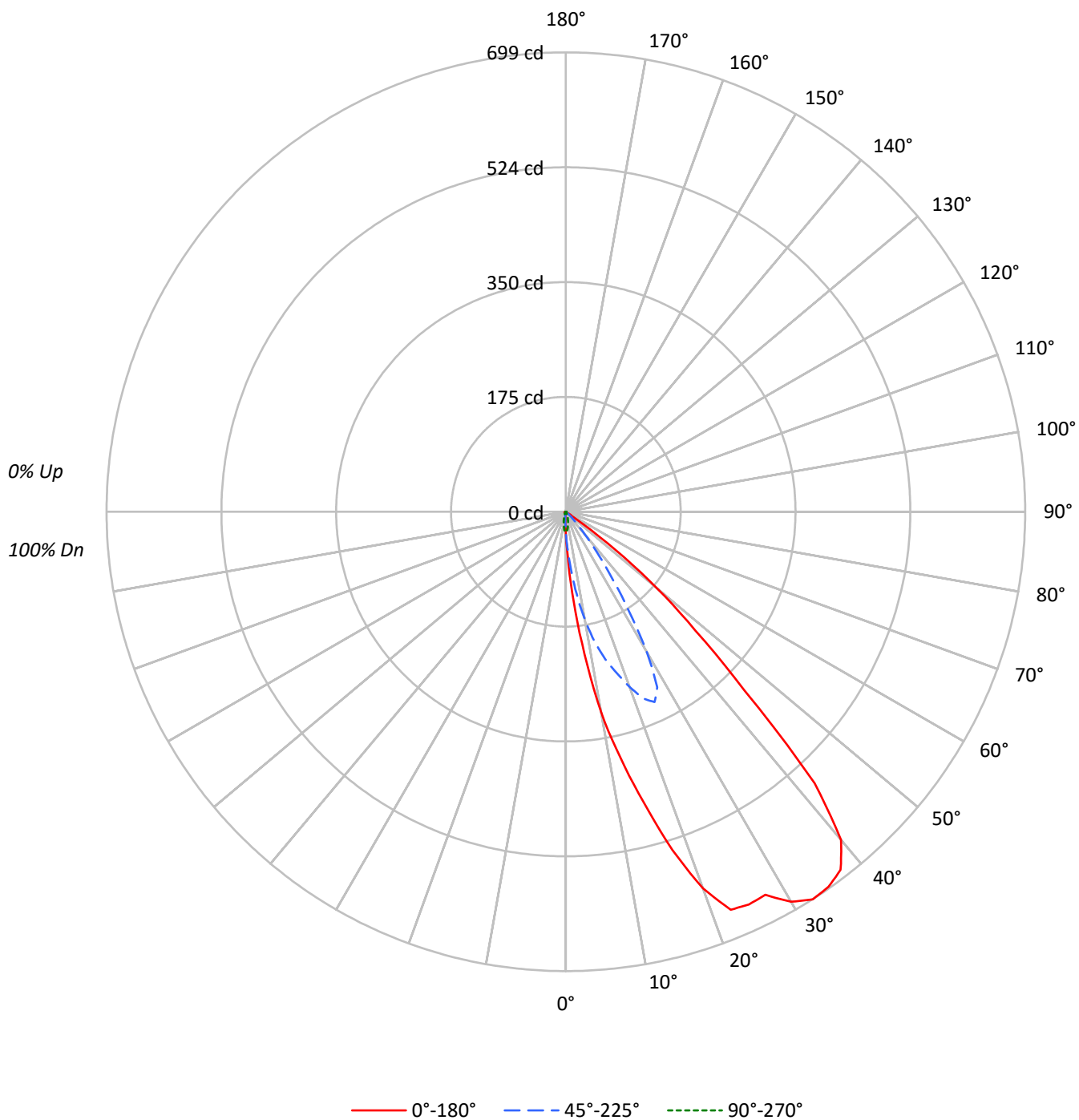
Lumens per Lamp: N/A
Luminaire Lumens: 258.0 lumens
Efficiency: N/A
Efficacy: 71.7 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.41 / 1.24
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	6688	6688	6688	6688	6688
5°	30200	19238	6009	2311	1673
10°	69226	37185	4231	824	623
15°	103905	52759	2633	454	386
20°	142276	66156	1517	257	303
25°	159493	77303	798	218	266
30°	173470	62389	329	177	279
35°	186448	31936	107	241	348
40°	186521	12738	57	258	429
45°	119082	4249	124	403	620
50°	61815	512	239	512	751
55°	5352	76	268	650	918
60°	175	88	307	746	1053
65°	208	104	467	778	1141
70°	128	128	577	833	1090
75°	169	169	593	932	1271
80°	253	253	884	884	1137
85°	0	503	1761	1006	1006

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 119082 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.9	2.3
10°-20°	34.9	13.5
20°-30°	76.5	29.6
30°-40°	87.1	33.8
40°-50°	46.0	17.8
50°-60°	5.4	2.1
60°-70°	1.0	0.4
70°-80°	0.8	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°	117.3	45.5
0°-40°	204.5	79.3
0°-60°	255.9	99.2
0°-90°	258.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	258.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	30	30	30	30	30	
5°	137	87	27	10	8	18
15°	458	232	12	2	2	135
25°	659	320	3	1	1	304
35°	696	119	0	1	1	432
45°	384	14	0	1	2	310
55°	14	0	1	2	2	43
65°	0	0	1	2	2	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°	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5
2.5°	68.0	68.0	67.8	65.9	65.6	65.4	61.9	61.1	56.9	54.1	41.2
5°	137.2	134.1	133.9	130.4	124.5	116.7	111.6	103.6	95.7	87.4	50.8
7.5°	218.5	221.1	213.9	210.2	197.1	187.7	173.4	160.7	143.0	126.5	58.7
10°	310.9	306.4	299.2	292.0	277.8	261.0	239.6	217.2	191.7	167.0	63.0
12.5°	383.1	377.2	372.9	363.1	349.1	327.5	302.0	271.9	238.1	202.6	62.8
15°	457.7	451.8	442.0	433.3	412.6	388.4	360.7	321.0	279.5	232.4	58.2
17.5°	539.7	532.1	521.2	507.9	487.8	461.0	425.9	377.5	318.8	256.9	49.9
20°	609.7	605.1	594.2	578.5	558.9	532.7	492.2	438.5	367.0	283.5	39.7
22.5°	655.5	651.3	643.9	630.2	615.4	587.4	550.4	491.5	407.3	307.7	30.1
25°	659.2	657.4	655.5	650.9	642.0	622.1	585.9	522.5	432.4	319.5	22.2
27.5°	657.2	656.6	656.1	653.7	647.8	628.2	591.2	527.0	429.1	301.1	16.4
30°	685.1	683.2	682.1	674.2	658.8	628.4	580.0	502.4	381.4	246.4	11.8
32.5°	699.3	698.9	697.8	690.2	668.3	628.9	561.3	442.9	302.4	177.9	8.1
35°	696.5	694.3	690.4	676.2	645.9	596.4	500.7	353.7	218.3	119.3	5.2
37.5°	686.9	681.9	674.2	648.7	608.4	540.8	406.0	260.4	148.5	77.2	3.1
40°	651.6	644.8	632.8	601.6	548.6	445.7	300.3	176.0	97.5	44.5	0.9
42.5°	560.2	551.5	542.7	507.9	447.2	332.3	197.6	108.8	55.6	24.4	0.2
45°	384.0	373.1	361.1	335.8	287.2	201.3	117.5	61.3	28.8	13.7	0.2
47.5°	266.7	261.7	240.7	208.5	159.8	106.6	60.8	30.1	15.3	6.3	0.2
50°	181.2	175.5	151.1	119.9	85.0	51.0	27.9	15.0	6.8	1.5	0.2
52.5°	95.1	88.1	72.6	55.4	34.5	21.4	12.2	6.5	2.0	0.2	0.2
55°	14.0	12.9	10.5	8.5	7.6	5.9	3.5	1.5	0.2	0.2	0.4
57.5°	0.4	0.4	0.4	0.4	0.7	0.7	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	0.7
70°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.7
72.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.7
75°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.7
77.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.7
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	0.7
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°	30.5	30.5	30.5	30.5	30.5
2.5°	30.1	22.2	17.2	14.8	14.6
5°	27.3	15.9	10.5	8.1	7.6
7.5°	23.1	11.1	6.1	4.4	4.1
10°	19.0	7.6	3.7	3.1	2.8
12.5°	15.0	5.0	2.6	2.4	2.2
15°	11.6	3.3	2.0	1.7	1.7
17.5°	8.7	2.2	1.5	1.5	1.5
20°	6.5	1.5	1.1	1.3	1.3
22.5°	4.6	1.1	0.9	1.1	1.1
25°	3.3	0.9	0.9	1.1	1.1
27.5°	2.2	0.7	0.7	0.9	1.1
30°	1.3	0.4	0.7	0.9	1.1
32.5°	0.7	0.4	0.7	1.1	1.1
35°	0.4	0.7	0.9	1.1	1.3
37.5°	0.2	0.7	0.9	1.3	1.3
40°	0.2	0.7	0.9	1.3	1.5
42.5°	0.4	0.9	1.1	1.5	1.7
45°	0.4	0.9	1.3	1.7	2.0
47.5°	0.4	0.9	1.5	2.0	2.0
50°	0.7	1.1	1.5	2.0	2.2
52.5°	0.7	1.1	1.5	2.2	2.4
55°	0.7	1.1	1.7	2.2	2.4
57.5°	0.7	1.3	1.7	2.2	2.4
60°	0.7	1.1	1.7	2.2	2.4
62.5°	0.9	1.1	1.5	2.2	2.2
65°	0.9	1.1	1.5	2.2	2.2
67.5°	0.9	1.1	1.5	2.0	2.0
70°	0.9	1.1	1.3	1.7	1.7
72.5°	0.9	1.1	1.3	1.5	1.7
75°	0.7	0.9	1.1	1.3	1.5
77.5°	0.7	0.9	0.9	1.3	1.3
80°	0.7	0.7	0.7	0.9	0.9
82.5°	0.7	0.7	0.4	0.7	0.7
85°	0.7	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)