

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: P1335845

Luminaire Tested: P3A02R409840DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1335845
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: P3A02R409840DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R40 optic, 4000K CCT AND, 98CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

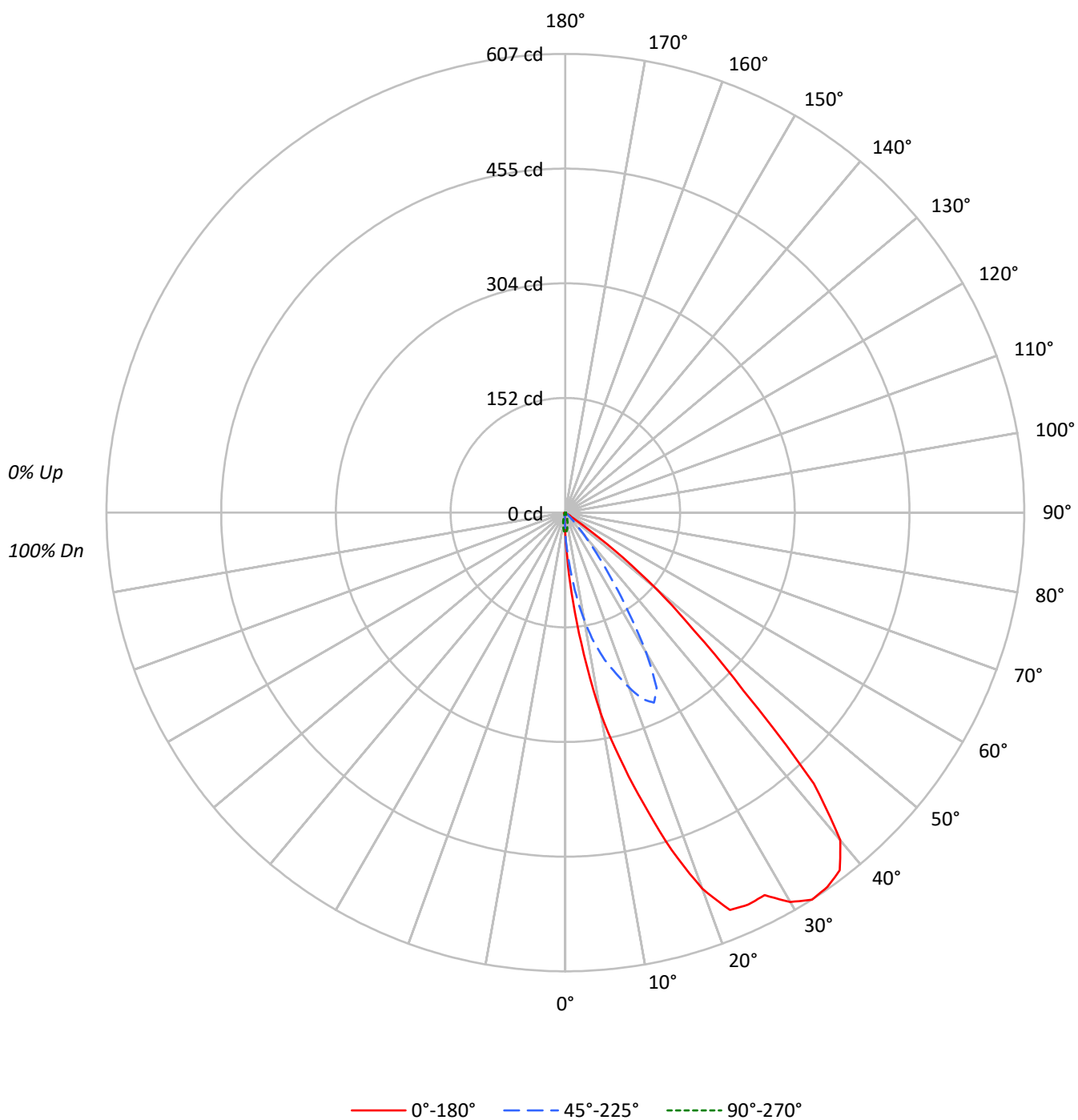
Lumens per Lamp: N/A
Luminaire Lumens: 224.0 lumens
Efficiency: N/A
Efficacy: 62.2 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.42 / 1.24
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	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	51	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°	5811	5811	5811	5811	5811
5°	26216	16707	5217	2003	1453
10°	60119	32286	3674	713	557
15°	90216	45812	2270	386	341
20°	123514	57428	1330	210	257
25°	138468	67117	677	194	218
30°	150605	54160	279	152	228
35°	161874	27733	107	214	294
40°	161932	11049	57	229	372
45°	103391	3690	124	341	527
50°	53661	443	205	443	648
55°	4626	76	229	573	803
60°	175	88	263	658	921
65°	208	104	415	675	986
70°	128	128	513	705	962
75°	169	169	508	763	1101
80°	253	253	758	758	1010
85°	0	503	1510	1006	1006

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 103391 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.2	2.3
10°-20°	30.3	13.5
20°-30°	66.4	29.6
30°-40°	75.6	33.8
40°-50°	39.9	17.8
50°-60°	4.7	2.1
60°-70°	0.9	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°	101.9	45.5
0°-40°	177.5	79.2
0°-60°	222.1	99.2
0°-90°	224.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	224.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	26	26	26	26	26	
5°	119	76	24	9	7	16
15°	397	202	10	2	2	117
25°	572	277	3	1	1	264
35°	605	104	0	1	1	375
45°	333	12	0	1	2	269
55°	12	0	1	2	2	38
65°	0	0	1	1	2	0
75°	0	0	1	1	1	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°	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5
2.5°	59.1	59.1	58.9	57.2	57.0	56.8	53.8	53.0	49.4	47.0	35.8
5°	119.1	116.4	116.2	113.2	108.1	101.3	96.9	89.9	83.1	75.9	44.1
7.5°	189.7	192.0	185.7	182.5	171.1	163.0	150.5	139.5	124.2	109.8	50.9
10°	270.0	266.0	259.7	253.5	241.2	226.6	208.1	188.6	166.4	145.0	54.7
12.5°	332.6	327.5	323.7	315.2	303.1	284.4	262.2	236.1	206.7	175.9	54.5
15°	397.4	392.3	383.8	376.2	358.2	337.2	313.1	278.7	242.7	201.8	50.5
17.5°	468.6	461.9	452.5	440.9	423.5	400.2	369.7	327.7	276.8	223.0	43.4
20°	529.3	525.4	515.9	502.3	485.2	462.5	427.3	380.7	318.6	246.1	34.5
22.5°	569.1	565.5	559.1	547.1	534.3	510.0	477.8	426.7	353.7	267.1	26.1
25°	572.3	570.8	569.1	565.1	557.4	540.1	508.7	453.6	375.4	277.4	19.3
27.5°	570.6	570.0	569.7	567.6	562.5	545.4	513.2	457.6	372.6	261.5	14.2
30°	594.8	593.1	592.2	585.4	571.9	545.6	503.6	436.2	331.1	213.9	10.2
32.5°	607.2	606.8	605.8	599.2	580.3	546.0	487.3	384.5	262.6	154.5	7.0
35°	604.7	602.8	599.4	587.1	560.8	517.8	434.7	307.1	189.5	103.6	4.5
37.5°	596.4	592.0	585.4	563.2	528.2	469.5	352.5	226.0	128.9	67.0	2.7
40°	565.7	559.8	549.4	522.3	476.3	387.0	260.7	152.8	84.6	38.6	0.8
42.5°	486.4	478.8	471.2	440.9	388.3	288.5	171.5	94.5	48.3	21.2	0.2
45°	333.4	323.9	313.5	291.6	249.3	174.7	102.0	53.2	25.0	11.9	0.2
47.5°	231.5	227.2	209.0	181.0	138.8	92.6	52.8	26.1	13.3	5.5	0.2
50°	157.3	152.4	131.2	104.1	73.8	44.3	24.2	13.1	5.9	1.3	0.2
52.5°	82.5	76.5	63.0	48.1	29.9	18.6	10.6	5.7	1.7	0.2	0.2
55°	12.1	11.2	9.1	7.4	6.6	5.1	3.0	1.3	0.2	0.2	0.4
57.5°	0.4	0.4	0.4	0.4	0.6	0.6	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	0.6
70°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.6
72.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.6
75°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.6
77.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.6
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	0.6
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°	26.5	26.5	26.5	26.5	26.5
2.5°	26.1	19.3	15.0	12.9	12.7
5°	23.7	13.8	9.1	7.0	6.6
7.5°	20.1	9.7	5.3	3.8	3.6
10°	16.5	6.6	3.2	2.7	2.5
12.5°	13.1	4.4	2.3	2.1	1.9
15°	10.0	2.8	1.7	1.5	1.5
17.5°	7.6	1.9	1.3	1.3	1.3
20°	5.7	1.3	0.9	1.1	1.1
22.5°	4.0	0.9	0.8	0.9	0.9
25°	2.8	0.8	0.8	0.9	0.9
27.5°	1.9	0.6	0.6	0.8	0.9
30°	1.1	0.4	0.6	0.8	0.9
32.5°	0.6	0.4	0.6	0.9	0.9
35°	0.4	0.6	0.8	0.9	1.1
37.5°	0.2	0.6	0.8	1.1	1.1
40°	0.2	0.6	0.8	1.1	1.3
42.5°	0.4	0.8	0.9	1.3	1.5
45°	0.4	0.8	1.1	1.5	1.7
47.5°	0.4	0.8	1.3	1.7	1.7
50°	0.6	0.9	1.3	1.7	1.9
52.5°	0.6	0.9	1.3	1.9	2.1
55°	0.6	0.9	1.5	1.9	2.1
57.5°	0.6	1.1	1.5	1.9	2.1
60°	0.6	0.9	1.5	1.9	2.1
62.5°	0.8	0.9	1.3	1.9	1.9
65°	0.8	0.9	1.3	1.9	1.9
67.5°	0.8	0.9	1.3	1.7	1.7
70°	0.8	0.9	1.1	1.5	1.5
72.5°	0.8	0.9	1.1	1.3	1.5
75°	0.6	0.8	0.9	1.1	1.3
77.5°	0.6	0.8	0.8	1.1	1.1
80°	0.6	0.6	0.6	0.8	0.8
82.5°	0.6	0.6	0.4	0.6	0.6
85°	0.6	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)