

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: P1335781

Luminaire Tested: P3A02R409740DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1335781
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: P3A02R409740DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R40 optic, 4000K CCT AND, 97CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

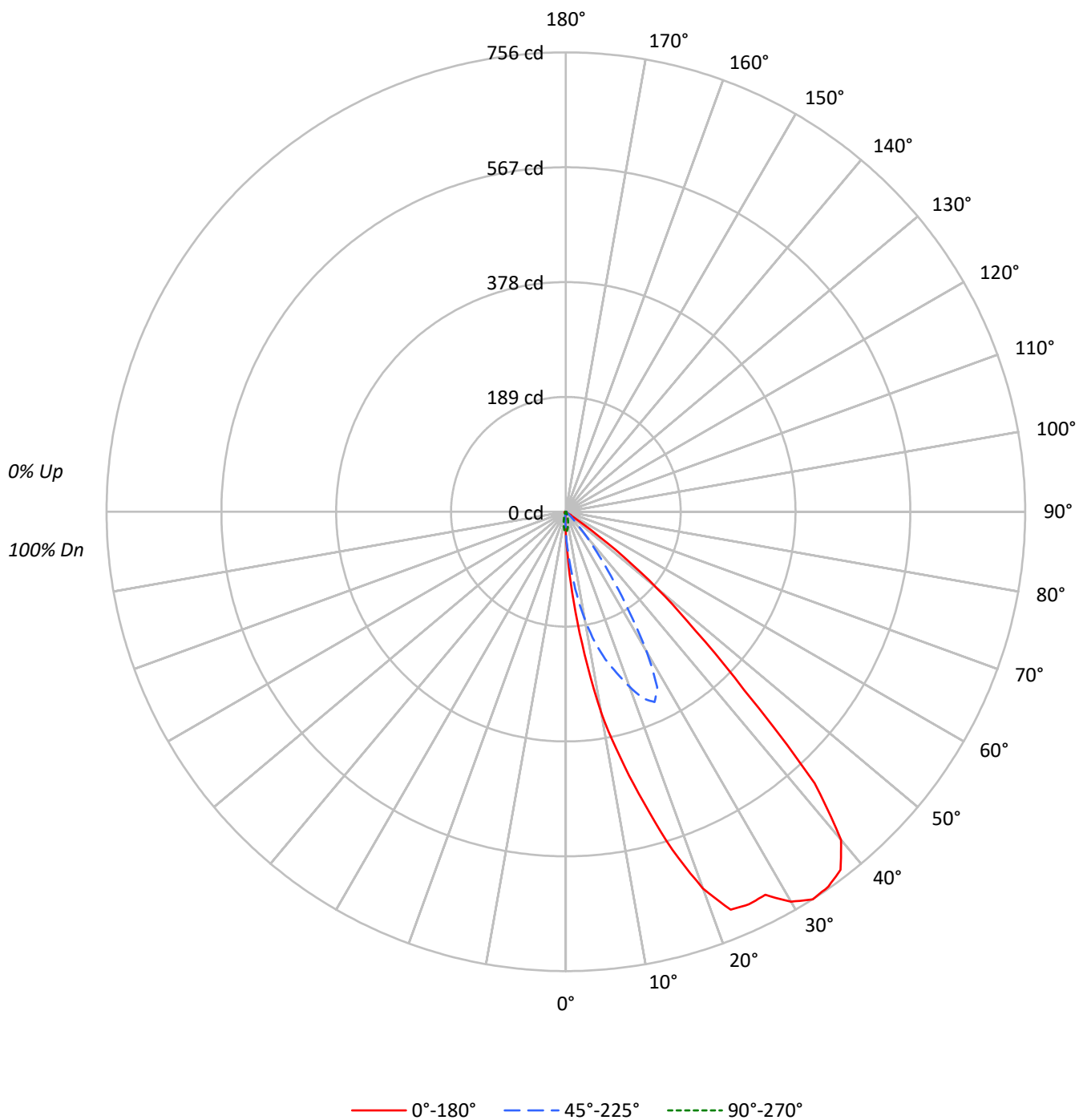
Lumens per Lamp: N/A
Luminaire Lumens: 279.0 lumens
Efficiency: N/A
Efficacy: 77.5 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.42 / 1.24
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	52	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°	7236	7236	7236	7236	7236
5°	32644	20823	6493	2487	1827
10°	74882	40213	4565	891	690
15°	112373	57072	2838	477	431
20°	153850	71523	1657	280	327
25°	172462	83594	847	218	290
30°	187598	67479	354	177	304
35°	201626	34532	134	241	375
40°	201692	13769	57	258	487
45°	128789	4621	155	434	651
50°	66863	580	239	580	819
55°	5773	76	268	726	994
60°	219	88	307	833	1140
65°	259	104	467	882	1245
70°	128	128	577	898	1218
75°	169	169	593	1017	1440
80°	253	253	884	884	1137
85°	0	503	1761	1258	1258

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 128789 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.4	2.3
10°-20°	37.8	13.5
20°-30°	82.7	29.6
30°-40°	94.2	33.8
40°-50°	49.7	17.8
50°-60°	5.9	2.1
60°-70°	1.1	0.4
70°-80°	0.9	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°	126.9	45.5
0°-40°	221.1	79.3
0°-60°	276.7	99.2
0°-90°	279.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	279.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	33	33	33	33	33	
5°	148	95	30	11	8	20
15°	495	251	12	2	2	146
25°	713	346	4	1	1	328
35°	753	129	0	1	1	467
45°	415	15	0	1	2	335
55°	15	0	1	2	3	47
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°	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0
2.5°	73.6	73.6	73.3	71.2	71.0	70.7	67.0	66.0	61.5	58.5	44.6
5°	148.3	145.0	144.8	141.0	134.6	126.2	120.7	112.0	103.5	94.6	54.9
7.5°	236.3	239.1	231.3	227.3	213.2	203.0	187.5	173.8	154.7	136.8	63.4
10°	336.3	331.3	323.5	315.7	300.4	282.3	259.2	234.9	207.3	180.6	68.1
12.5°	414.3	407.9	403.2	392.6	377.5	354.2	326.6	294.0	257.5	219.1	67.9
15°	495.0	488.6	478.0	468.5	446.1	420.0	390.0	347.1	302.3	251.4	63.0
17.5°	583.6	575.4	563.6	549.2	527.5	498.5	460.5	408.2	344.7	277.8	54.0
20°	659.3	654.4	642.6	625.6	604.4	576.1	532.2	474.2	396.9	306.5	42.9
22.5°	708.8	704.4	696.3	681.5	665.4	635.3	595.2	531.5	440.5	332.7	32.5
25°	712.8	711.0	708.8	703.9	694.2	672.8	633.6	565.0	467.6	345.5	24.1
27.5°	710.7	710.0	709.5	706.9	700.6	679.4	639.3	569.9	464.1	325.6	17.7
30°	740.9	738.8	737.6	729.1	712.4	679.6	627.2	543.3	412.4	266.5	12.7
32.5°	756.2	755.8	754.6	746.3	722.7	680.1	607.0	478.9	327.1	192.4	8.7
35°	753.2	750.8	746.6	731.2	698.5	644.9	541.4	382.5	236.0	129.0	5.7
37.5°	742.8	737.4	729.1	701.5	657.9	584.8	439.1	281.6	160.6	83.5	3.3
40°	704.6	697.3	684.3	650.6	593.3	482.0	324.7	190.3	105.4	48.1	0.9
42.5°	605.8	596.4	586.9	549.2	483.6	359.4	213.6	117.7	60.1	26.4	0.2
45°	415.3	403.5	390.5	363.1	310.6	217.6	127.1	66.3	31.1	14.9	0.2
47.5°	288.4	283.0	260.3	225.4	172.8	115.3	65.8	32.5	16.5	6.8	0.2
50°	196.0	189.8	163.4	129.7	92.0	55.2	30.2	16.3	7.3	1.7	0.2
52.5°	102.8	95.3	78.5	59.9	37.3	23.1	13.2	7.1	2.1	0.2	0.2
55°	15.1	13.9	11.3	9.2	8.3	6.4	3.8	1.7	0.2	0.2	0.5
57.5°	0.5	0.5	0.5	0.5	0.7	0.7	0.5	0.2	0.2	0.2	0.5
60°	0.5	0.5	0.5	0.5	0.5	0.2	0.2	0.2	0.2	0.2	0.5
62.5°	0.5	0.5	0.5	0.5	0.5	0.2	0.2	0.2	0.2	0.2	0.5
65°	0.5	0.5	0.5	0.5	0.5	0.2	0.2	0.2	0.2	0.2	0.5
67.5°	0.5	0.5	0.5	0.5	0.2	0.2	0.2	0.2	0.2	0.5	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	0.5	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	0.5	0.7
80°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.5
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	0.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	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°	33.0	33.0	33.0	33.0	33.0
2.5°	32.5	24.1	18.6	16.0	15.8
5°	29.5	17.2	11.3	8.7	8.3
7.5°	25.0	12.0	6.6	4.7	4.5
10°	20.5	8.3	4.0	3.3	3.1
12.5°	16.3	5.4	2.8	2.6	2.4
15°	12.5	3.5	2.1	1.9	1.9
17.5°	9.4	2.4	1.7	1.7	1.7
20°	7.1	1.7	1.2	1.4	1.4
22.5°	5.0	1.2	0.9	1.2	1.2
25°	3.5	0.9	0.9	1.2	1.2
27.5°	2.4	0.7	0.7	0.9	1.2
30°	1.4	0.5	0.7	0.9	1.2
32.5°	0.7	0.5	0.7	1.2	1.2
35°	0.5	0.7	0.9	1.2	1.4
37.5°	0.2	0.7	0.9	1.4	1.4
40°	0.2	0.7	0.9	1.4	1.7
42.5°	0.5	0.9	1.2	1.7	1.9
45°	0.5	0.9	1.4	1.9	2.1
47.5°	0.5	0.9	1.7	2.1	2.1
50°	0.7	1.2	1.7	2.1	2.4
52.5°	0.7	1.2	1.7	2.4	2.6
55°	0.7	1.2	1.9	2.4	2.6
57.5°	0.7	1.4	1.9	2.4	2.6
60°	0.7	1.2	1.9	2.4	2.6
62.5°	0.9	1.2	1.7	2.4	2.4
65°	0.9	1.2	1.7	2.4	2.4
67.5°	0.9	1.2	1.7	2.1	2.1
70°	0.9	1.2	1.4	1.9	1.9
72.5°	0.9	1.2	1.4	1.7	1.9
75°	0.7	0.9	1.2	1.4	1.7
77.5°	0.7	0.9	0.9	1.4	1.4
80°	0.7	0.7	0.7	0.9	0.9
82.5°	0.7	0.7	0.5	0.7	0.7
85°	0.7	0.5	0.5	0.5	0.5
87.5°	0.5	0.5	0.2	0.2	0.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)