

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: P1339526

Luminaire Tested: P3A05R459835DE010 E3A301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1339526
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-69)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A05R459835DE010 E3A301MW
Description: 3in Adjustable LED luminaire with, R45 optic, 3500K CCT AND, 98CRI , E3A301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

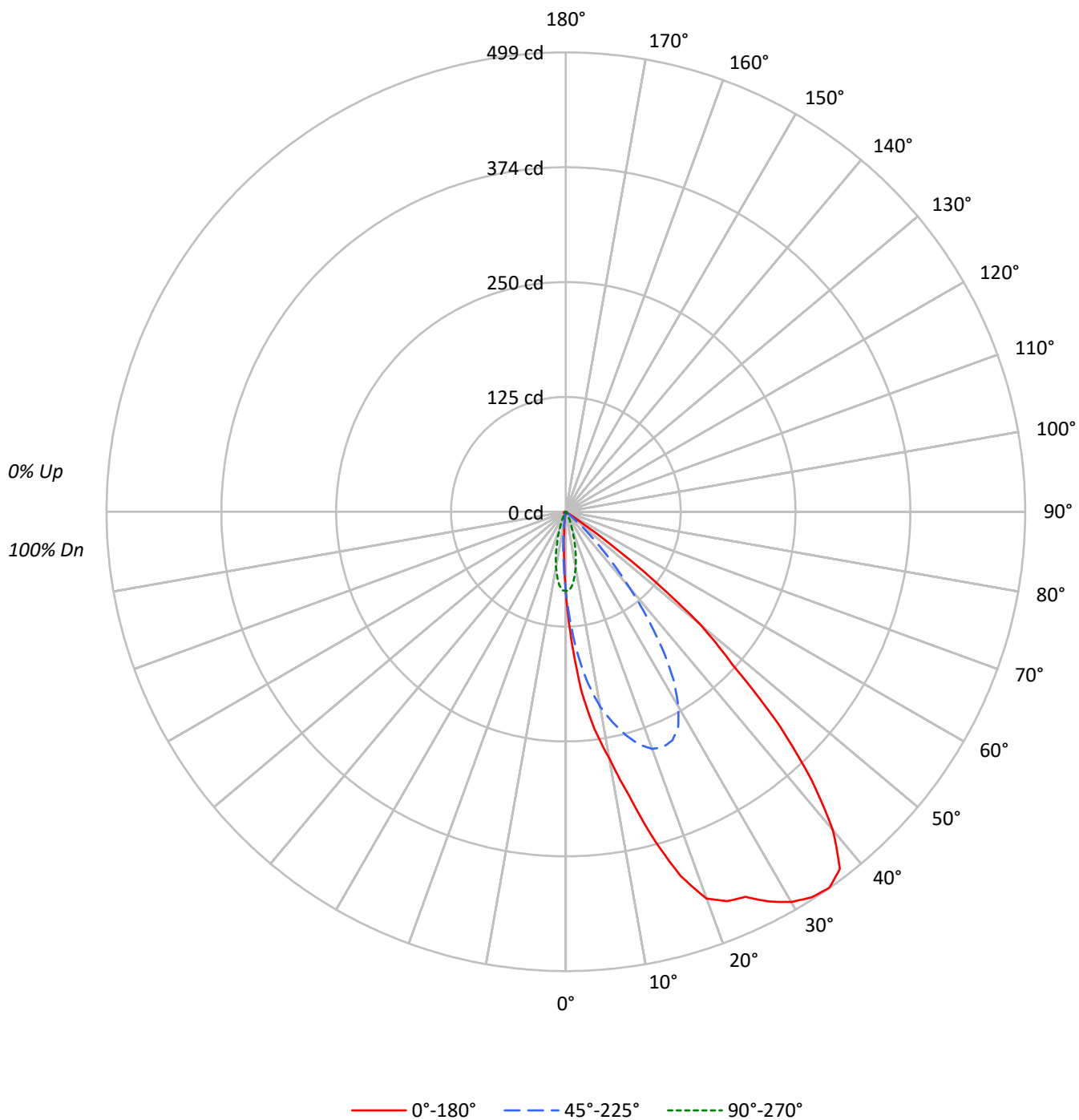
Lumens per Lamp: N/A
Luminaire Lumens: 226.1 lumens
Efficiency: N/A
Efficacy: 31.4 lumens/watt
Spacing Criteria (0/90/45): 2.13 / 0.47 / 1.22
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 7.2
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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	112	109	106	104	110	107	104	102	103	101	99		99	97	96		96
2	105	100	95	91	103	98	93	90	94	91	88		91	88	86		89
3	99	91	85	80	96	89	84	80	87	82	78		84	80	77		82
4	92	83	76	71	90	82	76	71	80	74	70		77	73	69		76
5	86	76	69	64	84	75	68	64	73	67	63		71	66	62		70
6	81	70	63	57	79	69	62	57	67	61	57		66	60	56		64
7	75	64	57	52	74	63	57	52	62	56	51		61	55	51		60
8	71	59	52	47	69	59	52	47	57	51	47		56	51	47		55
9	66	55	48	43	65	54	47	43	53	47	43		52	47	42		51
10	62	51	44	39	61	50	44	39	49	43	39		49	43	39		48

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	18858	18858	18858	18858	18858
5°	42967	34867	17631	7066	4821
10°	60564	47895	13627	1559	713
15°	83451	56981	8717	522	431
20°	104356	63986	4550	350	350
25°	111684	66270	2105	266	315
30°	123943	61883	962	279	329
35°	133525	49336	294	294	402
40°	129185	30572	172	372	487
45°	101468	14420	186	465	589
50°	65192	1672	273	580	785
55°	9902	153	306	726	956
60°	175	175	351	833	1009
65°	208	208	415	882	1193
70°	256	256	513	962	1346
75°	169	339	678	1101	1440
80°	253	505	758	1137	1642
85°	0	503	1006	1510	1510

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 101468 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.4	4.2
10°-20°	34.0	15.1
20°-30°	59.8	26.4
30°-40°	67.9	30.0
40°-50°	44.0	19.4
50°-60°	8.6	3.8
60°-70°	1.1	0.5
70°-80°	0.9	0.4
80°-90°	0.4	0.2
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°	103.2	45.7
0°-40°	171.1	75.7
0°-60°	223.7	99.0
0°-90°	226.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	226.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	86	86	86	86	86	
5°	195	158	80	32	22	21
15°	368	251	38	2	2	106
25°	462	274	9	1	1	216
35°	499	184	1	1	2	307
45°	327	46	1	2	2	247
55°	26	0	1	2	2	49
65°	0	0	1	2	2	0
75°	0	0	1	1	2	0
85°	0	0	0	1	1	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0
2.5°	139.7	139.3	139.9	136.1	135.9	133.1	132.3	129.1	124.7	122.7	117.8
5°	195.2	193.4	193.4	188.8	187.3	184.1	178.6	171.8	166.1	158.4	150.1
7.5°	238.1	237.8	237.8	233.8	230.0	225.5	218.1	210.4	201.3	189.4	177.3
10°	272.0	272.5	270.8	267.3	261.8	256.9	248.2	238.7	227.6	215.1	199.0
12.5°	314.7	310.5	309.2	301.1	294.1	284.6	274.2	263.5	249.7	234.0	215.8
15°	367.6	362.3	357.0	346.3	334.5	320.0	303.7	287.9	270.1	251.0	228.3
17.5°	414.9	414.9	407.9	390.9	375.7	354.2	332.3	311.1	290.1	265.0	236.6
20°	447.2	445.5	440.2	427.7	410.5	386.1	357.6	327.9	302.6	274.2	241.4
22.5°	457.8	457.4	457.6	450.2	436.4	411.1	376.1	341.2	309.4	276.5	239.1
25°	461.6	462.3	464.2	461.4	451.0	425.6	387.5	347.4	311.5	273.9	230.4
27.5°	477.2	475.7	477.8	475.9	464.2	434.0	389.7	345.9	306.9	264.2	214.9
30°	489.5	489.1	492.7	491.0	475.7	439.2	387.7	340.2	295.8	244.4	190.5
32.5°	496.5	496.7	497.7	490.7	468.0	427.7	377.4	328.7	274.8	218.5	158.8
35°	498.8	497.7	492.4	475.2	444.2	401.1	352.3	301.3	246.3	184.3	125.5
37.5°	489.0	483.1	469.5	443.8	407.9	367.6	320.2	266.7	207.2	145.5	93.6
40°	451.3	443.6	426.4	400.1	366.7	327.7	279.2	223.2	160.7	106.8	65.8
42.5°	395.0	391.1	373.1	350.2	321.9	282.6	232.5	175.8	118.9	73.7	42.0
45°	327.2	322.1	310.7	290.5	268.2	227.0	180.3	125.9	81.1	46.5	20.8
47.5°	245.3	245.7	238.0	222.6	200.7	166.3	123.4	84.5	50.8	24.0	4.7
50°	191.1	188.4	177.5	161.8	136.3	110.8	79.8	53.3	26.8	4.9	0.4
52.5°	105.8	107.5	101.7	96.6	83.4	66.2	47.1	27.0	5.7	0.6	0.4
55°	25.9	27.4	26.3	26.8	27.8	24.8	19.1	5.3	0.6	0.4	0.4
57.5°	0.6	0.6	0.6	0.6	0.9	1.3	1.3	0.4	0.4	0.4	0.4
60°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
62.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
65°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
67.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
70°	0.4	0.4	0.4	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
72.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.4	0.4
75°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.4	0.4
77.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.4
80°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.4
82.5°	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2
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):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0
2.5°	115.3	111.7	105.1	85.4	68.6	55.4	47.4	46.7
5°	142.7	133.1	119.1	80.1	50.7	32.1	23.2	21.9
7.5°	164.4	150.8	129.3	71.4	34.6	16.4	9.1	7.6
10°	182.4	163.1	134.6	61.2	21.7	7.0	3.8	3.2
12.5°	194.7	171.4	135.5	49.9	12.5	3.4	2.5	2.3
15°	202.6	174.1	131.0	38.4	7.0	2.3	2.1	1.9
17.5°	205.8	171.8	122.3	27.8	3.8	1.7	1.7	1.7
20°	204.3	164.4	109.4	19.5	2.5	1.5	1.5	1.5
22.5°	197.1	151.8	93.4	13.0	1.7	1.3	1.3	1.3
25°	183.0	134.6	76.4	8.7	1.1	1.1	1.3	1.3
27.5°	161.8	113.4	58.4	5.9	0.9	1.1	1.3	1.3
30°	135.1	89.8	42.0	3.8	0.9	1.1	1.1	1.3
32.5°	107.4	65.4	27.6	2.3	0.8	1.1	1.3	1.5
35°	77.9	44.6	17.6	1.1	0.9	1.1	1.3	1.5
37.5°	54.6	29.1	10.2	0.8	0.9	1.1	1.5	1.5
40°	35.5	16.3	3.8	0.6	0.9	1.3	1.5	1.7
42.5°	18.5	5.7	0.8	0.6	0.9	1.3	1.7	1.9
45°	4.7	0.8	0.2	0.6	1.1	1.5	1.9	1.9
47.5°	0.6	0.2	0.2	0.8	1.1	1.7	1.9	2.1
50°	0.2	0.4	0.4	0.8	1.1	1.7	2.1	2.3
52.5°	0.4	0.4	0.4	0.8	1.3	1.7	2.3	2.5
55°	0.4	0.4	0.4	0.8	1.3	1.9	2.3	2.5
57.5°	0.4	0.4	0.4	0.8	1.3	1.9	2.3	2.3
60°	0.4	0.4	0.4	0.8	1.3	1.9	2.3	2.3
62.5°	0.4	0.4	0.6	0.8	1.3	1.7	2.3	2.3
65°	0.4	0.6	0.6	0.8	1.3	1.7	2.1	2.3
67.5°	0.4	0.4	0.6	0.8	1.3	1.7	2.1	2.3
70°	0.4	0.4	0.6	0.8	1.1	1.5	1.9	2.1
72.5°	0.4	0.4	0.6	0.8	1.1	1.5	1.7	1.9
75°	0.4	0.4	0.6	0.8	0.9	1.3	1.7	1.7
77.5°	0.4	0.4	0.6	0.6	0.9	1.1	1.5	1.5
80°	0.4	0.4	0.6	0.6	0.8	0.9	1.1	1.3
82.5°	0.4	0.4	0.4	0.6	0.6	0.8	0.9	0.9
85°	0.4	0.4	0.4	0.4	0.4	0.6	0.6	0.6
87.5°	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)