

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: P1336140

Luminaire Tested: P3A02R459830DE010 E3A301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1336140
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: P3A02R459830DE010 E3A301MW
Description: 3in Adjustable LED luminaire with, R45 optic, 3000K CCT AND, 98CRI , E3A301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

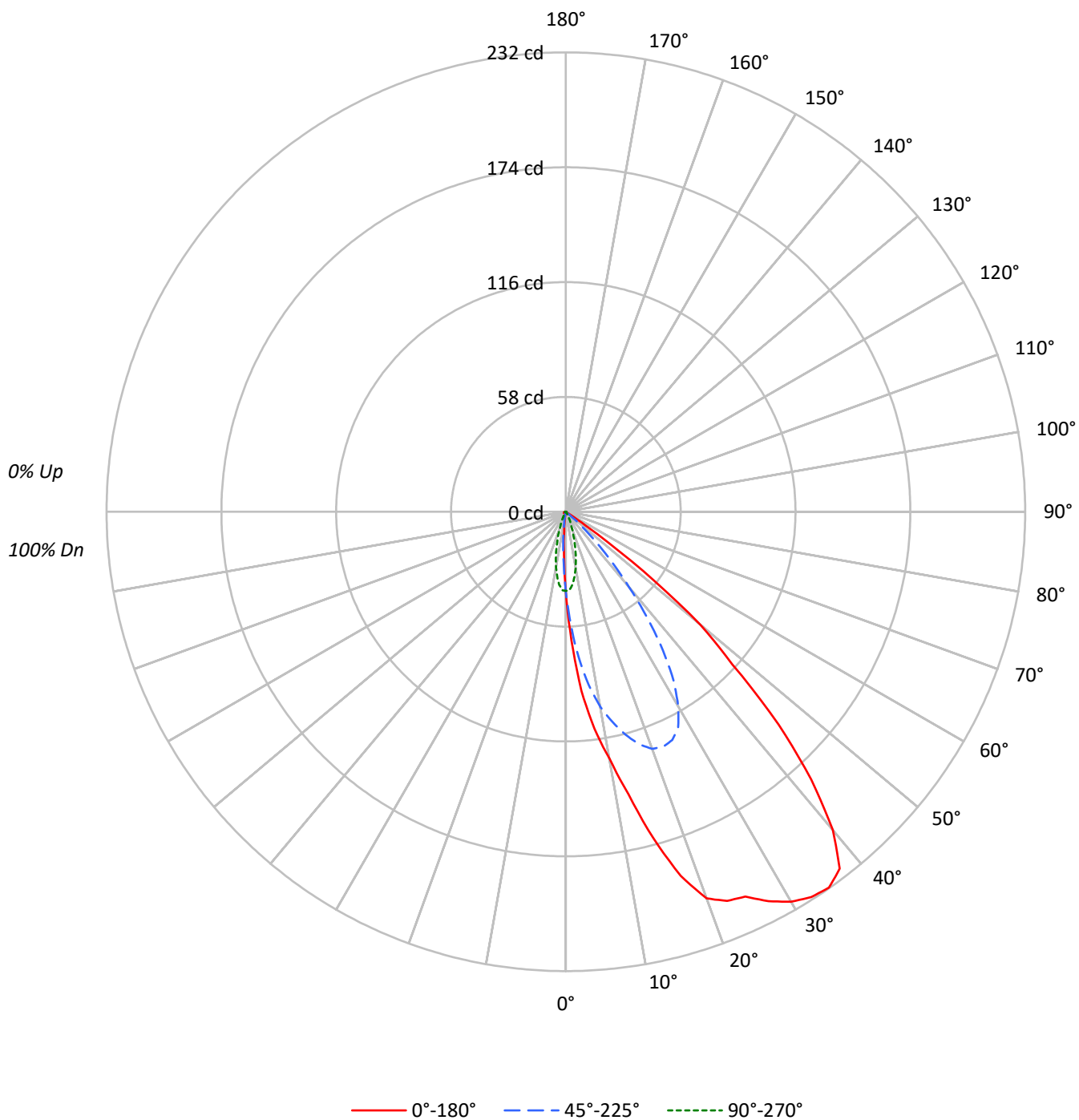
Lumens per Lamp: N/A
Luminaire Lumens: 105.1 lumens
Efficiency: N/A
Efficacy: 29.2 lumens/watt
Spacing Criteria (0/90/45): 2.13 / 0.47 / 1.22
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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	93	90	94	91	88	91	88	86	89	86	84	84	84	82
3	99	91	85	80	96	89	84	79	87	82	78	84	80	77	82	79	76	76	76	74
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	75	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	63	57	79	69	62	57	67	61	57	66	60	56	64	60	56	56	56	54
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	60	55	51	51	51	49
8	71	59	52	47	69	59	52	47	57	51	47	56	51	47	55	50	46	46	46	45
9	66	55	48	43	65	54	47	43	53	47	43	52	47	42	51	46	42	42	42	41
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	43	39	39	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	8771	8771	8771	8771	8771
5°	19965	16201	8188	3280	2245
10°	28145	22244	6346	713	334
15°	38774	26470	4041	250	204
20°	48491	29729	2100	163	163
25°	51874	30776	968	121	145
30°	57578	28739	456	127	152
35°	62024	22914	134	134	187
40°	60027	14198	86	172	229
45°	47137	6698	93	217	279
50°	30293	785	136	273	375
55°	4588	76	153	344	421
60°	88	88	175	395	482
65°	104	104	208	415	571
70°	128	128	256	449	641
75°	85	169	339	508	678
80°	126	253	379	505	758
85°	0	252	503	755	755

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 47137 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.4	4.2
10°-20°	15.8	15.0
20°-30°	27.8	26.4
30°-40°	31.5	30.0
40°-50°	20.4	19.4
50°-60°	4.0	3.8
60°-70°	0.5	0.5
70°-80°	0.4	0.4
80°-90°	0.2	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°	48.0	45.6
0°-40°	79.5	75.7
0°-60°	103.9	98.9
0°-90°	105.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	105.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	40	40	40	40	40	
5°	91	74	37	15	10	10
15°	171	117	18	1	1	49
25°	214	127	4	0	1	101
35°	232	86	0	0	1	142
45°	152	22	0	1	1	115
55°	12	0	0	1	1	23
65°	0	0	0	1	1	0
75°	0	0	0	1	1	0
85°	0	0	0	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°	50°
0°	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0
2.5°	64.9	64.7	65.0	63.2	63.1	61.8	61.5	60.0	58.0	57.0	54.7
5°	90.7	89.8	89.8	87.7	87.0	85.5	83.0	79.8	77.2	73.6	69.7
7.5°	110.6	110.5	110.5	108.6	106.9	104.8	101.3	97.7	93.5	88.0	82.4
10°	126.4	126.6	125.8	124.2	121.6	119.3	115.3	110.9	105.7	99.9	92.5
12.5°	146.2	144.3	143.7	139.9	136.6	132.2	127.4	122.4	116.0	108.7	100.3
15°	170.8	168.3	165.9	160.9	155.4	148.7	141.1	133.7	125.5	116.6	106.1
17.5°	192.7	192.7	189.5	181.6	174.6	164.6	154.4	144.5	134.8	123.1	109.9
20°	207.8	207.0	204.5	198.7	190.7	179.4	166.1	152.4	140.6	127.4	112.1
22.5°	212.7	212.5	212.6	209.2	202.8	191.0	174.7	158.5	143.7	128.5	111.1
25°	214.4	214.8	215.7	214.3	209.5	197.8	180.0	161.4	144.7	127.2	107.0
27.5°	221.7	221.0	222.0	221.1	215.7	201.6	181.1	160.7	142.6	122.8	99.8
30°	227.4	227.3	228.9	228.1	221.0	204.1	180.1	158.1	137.4	113.5	88.5
32.5°	230.7	230.8	231.2	228.0	217.4	198.7	175.4	152.7	127.7	101.5	73.8
35°	231.7	231.2	228.8	220.8	206.4	186.3	163.7	140.0	114.4	85.6	58.3
37.5°	227.2	224.4	218.1	206.2	189.5	170.8	148.8	123.9	96.2	67.6	43.5
40°	209.7	206.1	198.1	185.9	170.4	152.3	129.7	103.7	74.6	49.6	30.6
42.5°	183.5	181.7	173.3	162.7	149.5	131.3	108.0	81.7	55.2	34.2	19.5
45°	152.0	149.6	144.4	135.0	124.6	105.5	83.8	58.5	37.7	21.6	9.7
47.5°	114.0	114.2	110.6	103.4	93.3	77.3	57.3	39.3	23.6	11.2	2.2
50°	88.8	87.5	82.5	75.2	63.3	51.5	37.1	24.8	12.5	2.3	0.2
52.5°	49.2	50.0	47.2	44.9	38.7	30.7	21.9	12.6	2.6	0.3	0.2
55°	12.0	12.7	12.2	12.5	12.9	11.5	8.9	2.5	0.3	0.2	0.2
57.5°	0.3	0.3	0.3	0.3	0.4	0.6	0.6	0.2	0.2	0.2	0.2
60°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
62.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
65°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
67.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
70°	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
72.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2
75°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2
77.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2
80°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2
82.5°	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1
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°	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0
2.5°	53.6	51.9	48.8	39.7	31.9	25.7	22.0	21.7
5°	66.3	61.8	55.3	37.2	23.5	14.9	10.8	10.2
7.5°	76.4	70.1	60.1	33.2	16.1	7.6	4.2	3.5
10°	84.7	75.8	62.5	28.5	10.1	3.2	1.8	1.5
12.5°	90.4	79.6	63.0	23.2	5.8	1.6	1.1	1.1
15°	94.1	80.9	60.9	17.8	3.2	1.1	1.0	0.9
17.5°	95.6	79.8	56.8	12.9	1.8	0.8	0.8	0.8
20°	94.9	76.4	50.8	9.0	1.1	0.7	0.7	0.7
22.5°	91.6	70.5	43.4	6.1	0.8	0.6	0.6	0.6
25°	85.0	62.5	35.5	4.0	0.5	0.5	0.6	0.6
27.5°	75.2	52.7	27.1	2.7	0.4	0.5	0.6	0.6
30°	62.8	41.7	19.5	1.8	0.4	0.5	0.5	0.6
32.5°	49.9	30.4	12.8	1.1	0.4	0.5	0.6	0.7
35°	36.2	20.7	8.2	0.5	0.4	0.5	0.6	0.7
37.5°	25.4	13.5	4.7	0.4	0.4	0.5	0.7	0.7
40°	16.5	7.6	1.8	0.3	0.4	0.6	0.7	0.8
42.5°	8.6	2.6	0.4	0.3	0.4	0.6	0.8	0.9
45°	2.2	0.4	0.1	0.3	0.5	0.7	0.9	0.9
47.5°	0.3	0.1	0.1	0.4	0.5	0.8	0.9	1.0
50°	0.1	0.2	0.2	0.4	0.5	0.8	1.0	1.1
52.5°	0.2	0.2	0.2	0.4	0.6	0.8	1.1	1.1
55°	0.2	0.2	0.2	0.4	0.6	0.9	1.1	1.1
57.5°	0.2	0.2	0.2	0.4	0.6	0.9	1.1	1.1
60°	0.2	0.2	0.2	0.4	0.6	0.9	1.1	1.1
62.5°	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.1
65°	0.2	0.3	0.3	0.4	0.6	0.8	1.0	1.1
67.5°	0.2	0.2	0.3	0.4	0.6	0.8	1.0	1.1
70°	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.0
72.5°	0.2	0.2	0.3	0.4	0.5	0.7	0.8	0.9
75°	0.2	0.2	0.3	0.4	0.4	0.6	0.8	0.8
77.5°	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.7
80°	0.2	0.2	0.3	0.3	0.4	0.4	0.5	0.6
82.5°	0.2	0.2	0.2	0.3	0.3	0.4	0.4	0.4
85°	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3
87.5°	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)