

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: P1339512

Luminaire Tested: P3A05R459830DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1339512
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: P3A05R459830DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R45 optic, 3000K CCT AND, 98CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

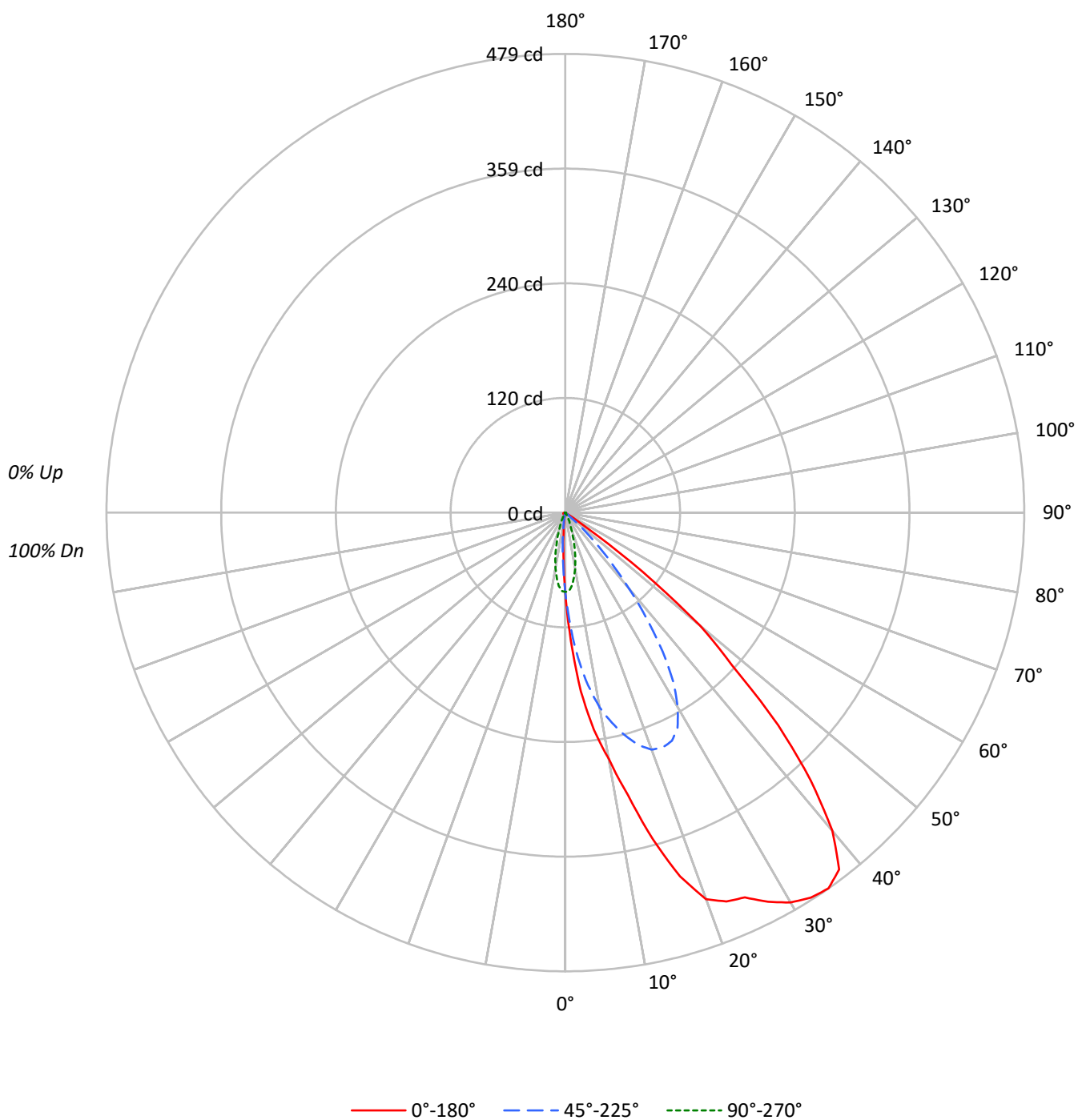
Lumens per Lamp: N/A
Luminaire Lumens: 217.0 lumens
Efficiency: N/A
Efficacy: 30.1 lumens/watt
Spacing Criteria (0/90/45): 2.13 / 0.47 / 1.22
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	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	95	91	88	91	88	86	89	86	84	84	84	82
3	99	91	85	80	96	89	84	80	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	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	81	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	43	51	46	42	42	42	41
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	39	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	18113	18113	18113	18113	18113
5°	41272	33480	16927	6802	4644
10°	58137	45980	13093	1492	690
15°	80137	54711	8354	499	409
20°	100202	61442	4364	350	350
25°	107232	63633	2008	266	315
30°	119006	59427	912	279	329
35°	128198	47355	294	294	402
40°	124061	29341	143	372	458
45°	97405	13831	155	465	558
50°	62599	1603	239	546	751
55°	9519	153	268	688	918
60°	175	175	307	789	965
65°	208	208	363	830	1141
70°	256	256	449	962	1282
75°	169	339	593	1101	1356
80°	253	505	631	1137	1642
85°	0	503	1006	1258	1258

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 97405 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.0	4.2
10°-20°	32.7	15.1
20°-30°	57.4	26.4
30°-40°	65.2	30.0
40°-50°	42.2	19.4
50°-60°	8.3	3.8
60°-70°	1.0	0.5
70°-80°	0.8	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°	99.1	45.7
0°-40°	164.3	75.7
0°-60°	214.8	99.0
0°-90°	217.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	217.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	83	83	83	83	83	
5°	188	152	77	31	21	20
15°	353	241	37	2	2	102
25°	443	263	8	1	1	208
35°	479	177	1	1	2	294
45°	314	45	0	2	2	237
55°	25	0	1	2	2	47
65°	0	0	1	2	2	0
75°	0	0	1	1	2	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°	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6
2.5°	134.1	133.7	134.3	130.7	130.5	127.8	127.0	124.0	119.8	117.8	113.1
5°	187.5	185.7	185.7	181.3	179.8	176.8	171.5	165.0	159.5	152.1	144.1
7.5°	228.7	228.3	228.3	224.5	220.9	216.5	209.4	202.0	193.3	181.8	170.2
10°	261.1	261.7	260.1	256.6	251.3	246.6	238.3	229.2	218.5	206.5	191.1
12.5°	302.2	298.2	296.9	289.1	282.4	273.3	263.3	253.0	239.7	224.7	207.2
15°	353.0	347.9	342.8	332.5	321.2	307.2	291.6	276.4	259.3	241.0	219.2
17.5°	398.3	398.3	391.6	375.3	360.8	340.1	319.0	298.7	278.6	254.4	227.2
20°	429.4	427.7	422.7	410.7	394.2	370.8	343.4	314.9	290.5	263.3	231.7
22.5°	439.5	439.2	439.4	432.3	419.0	394.7	361.1	327.6	297.1	265.5	229.6
25°	443.2	443.9	445.7	443.0	433.0	408.7	372.0	333.6	299.1	263.0	221.2
27.5°	458.2	456.8	458.8	457.0	445.7	416.7	374.2	332.1	294.7	253.7	206.3
30°	470.0	469.7	473.1	471.5	456.8	421.8	372.2	326.7	284.0	234.7	182.9
32.5°	476.7	476.9	477.8	471.1	449.3	410.7	362.4	315.6	263.9	209.8	152.4
35°	478.9	477.8	472.8	456.2	426.5	385.1	338.3	289.3	236.5	176.9	120.5
37.5°	469.5	463.9	450.8	426.1	391.6	353.0	307.4	256.1	198.9	139.7	89.8
40°	433.4	425.9	409.4	384.2	352.1	314.7	268.0	214.3	154.3	102.5	63.2
42.5°	379.3	375.5	358.2	336.3	309.1	271.3	223.2	168.8	114.2	70.8	40.3
45°	314.1	309.2	298.4	278.9	257.5	218.0	173.1	120.9	77.9	44.6	20.0
47.5°	235.6	235.9	228.5	213.8	192.7	159.7	118.5	81.1	48.8	23.0	4.5
50°	183.5	180.9	170.4	155.3	130.8	106.3	76.6	51.2	25.8	4.7	0.4
52.5°	101.6	103.3	97.6	92.7	80.0	63.5	45.2	26.0	5.4	0.5	0.4
55°	24.9	26.3	25.2	25.8	26.7	23.8	18.3	5.1	0.5	0.4	0.4
57.5°	0.5	0.5	0.5	0.5	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°	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6
2.5°	110.7	107.3	100.9	82.0	65.9	53.2	45.6	44.8
5°	137.0	127.8	114.3	76.9	48.6	30.9	22.3	21.1
7.5°	157.9	144.8	124.1	68.6	33.2	15.8	8.7	7.3
10°	175.1	156.6	129.2	58.8	20.9	6.7	3.6	3.1
12.5°	186.9	164.6	130.1	47.9	12.0	3.3	2.4	2.2
15°	194.5	167.1	125.8	36.8	6.7	2.2	2.0	1.8
17.5°	197.6	165.0	117.4	26.7	3.6	1.6	1.6	1.6
20°	196.2	157.9	105.1	18.7	2.4	1.5	1.5	1.5
22.5°	189.3	145.7	89.7	12.5	1.6	1.3	1.3	1.3
25°	175.7	129.2	73.3	8.3	1.1	1.1	1.3	1.3
27.5°	155.3	108.9	56.1	5.6	0.9	1.1	1.3	1.3
30°	129.8	86.2	40.3	3.6	0.9	1.1	1.1	1.3
32.5°	103.1	62.8	26.5	2.2	0.7	1.1	1.3	1.5
35°	74.8	42.8	16.9	1.1	0.9	1.1	1.3	1.5
37.5°	52.4	27.9	9.8	0.7	0.9	1.1	1.5	1.5
40°	34.1	15.6	3.6	0.5	0.9	1.3	1.5	1.6
42.5°	17.8	5.4	0.7	0.5	0.9	1.3	1.6	1.8
45°	4.5	0.7	0.2	0.5	1.1	1.5	1.8	1.8
47.5°	0.5	0.2	0.2	0.7	1.1	1.6	1.8	2.0
50°	0.2	0.4	0.4	0.7	1.1	1.6	2.0	2.2
52.5°	0.4	0.4	0.4	0.7	1.3	1.6	2.2	2.4
55°	0.4	0.4	0.4	0.7	1.3	1.8	2.2	2.4
57.5°	0.4	0.4	0.4	0.7	1.3	1.8	2.2	2.2
60°	0.4	0.4	0.4	0.7	1.3	1.8	2.2	2.2
62.5°	0.4	0.4	0.5	0.7	1.3	1.6	2.2	2.2
65°	0.4	0.5	0.5	0.7	1.3	1.6	2.0	2.2
67.5°	0.4	0.4	0.5	0.7	1.3	1.6	2.0	2.2
70°	0.4	0.4	0.5	0.7	1.1	1.5	1.8	2.0
72.5°	0.4	0.4	0.5	0.7	1.1	1.5	1.6	1.8
75°	0.4	0.4	0.5	0.7	0.9	1.3	1.6	1.6
77.5°	0.4	0.4	0.5	0.5	0.9	1.1	1.5	1.5
80°	0.4	0.4	0.5	0.5	0.7	0.9	1.1	1.3
82.5°	0.4	0.4	0.4	0.5	0.5	0.7	0.9	0.9
85°	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5
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)