

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: P1339000

Luminaire Tested: P3A05R409830DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1339000
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: P3A05R409830DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R40 optic, 3000K CCT AND, 98CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

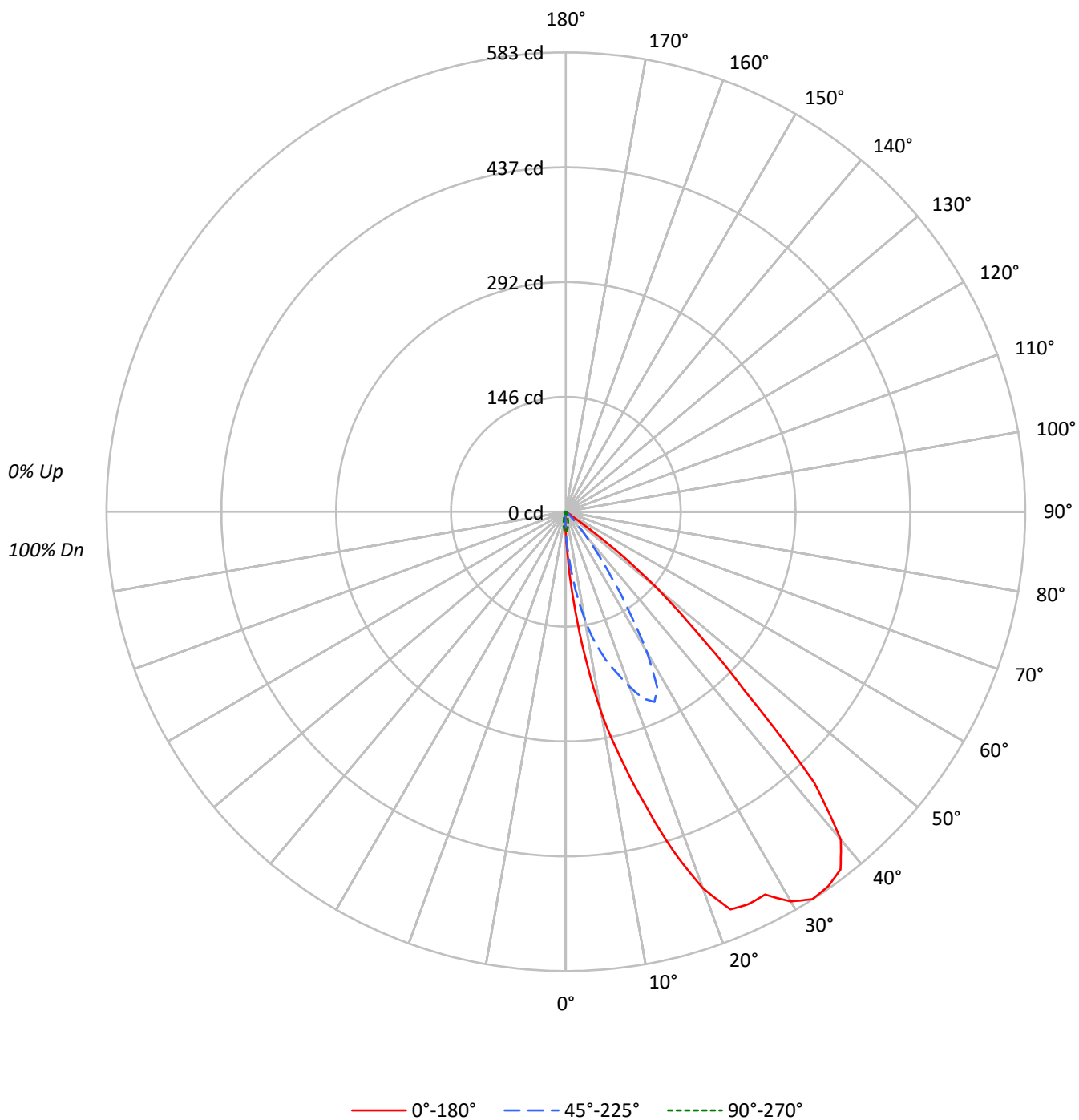
Lumens per Lamp: N/A
Luminaire Lumens: 215.0 lumens
Efficiency: N/A
Efficacy: 29.9 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.41 / 1.24
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	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	51	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°	5570	5570	5570	5570	5570
5°	25160	16047	4997	1915	1409
10°	57692	30995	3518	690	534
15°	86584	43973	2179	363	341
20°	118567	55118	1283	210	257
25°	132903	64407	653	169	218
30°	144554	51983	279	127	228
35°	155369	26609	107	187	294
40°	155434	10620	57	200	372
45°	99235	3535	124	341	496
50°	51512	443	171	443	614
55°	4435	76	191	573	765
60°	175	88	219	658	877
65°	208	104	363	675	934
70°	128	128	449	705	962
75°	169	169	424	763	1101
80°	253	253	631	631	884
85°	0	503	1258	1006	1006

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 99235 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.0	2.3
10°-20°	29.1	13.5
20°-30°	63.7	29.6
30°-40°	72.6	33.8
40°-50°	38.3	17.8
50°-60°	4.5	2.1
60°-70°	0.8	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°	97.8	45.5
0°-40°	170.4	79.2
0°-60°	213.2	99.2
0°-90°	215.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	215.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	25	25	25	25	25	
5°	114	73	23	9	6	15
15°	381	194	10	2	2	112
25°	549	266	3	1	1	253
35°	580	99	0	1	1	360
45°	320	11	0	1	2	258
55°	12	0	0	2	2	36
65°	0	0	1	1	2	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°	67.5°
0°	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4
2.5°	56.7	56.7	56.5	54.9	54.7	54.5	51.6	50.9	47.4	45.1	34.3
5°	114.3	111.8	111.6	108.7	103.8	97.2	93.0	86.3	79.8	72.9	42.3
7.5°	182.1	184.3	178.3	175.2	164.3	156.5	144.5	133.9	119.2	105.4	48.9
10°	259.1	255.3	249.3	243.3	231.5	217.5	199.7	181.0	159.7	139.2	52.5
12.5°	319.3	314.4	310.7	302.6	290.9	272.9	251.7	226.6	198.4	168.8	52.3
15°	381.4	376.5	368.3	361.1	343.8	323.6	300.6	267.5	233.0	193.7	48.5
17.5°	449.7	443.4	434.3	423.2	406.5	384.1	354.9	314.5	265.7	214.1	41.6
20°	508.1	504.3	495.2	482.1	465.7	443.9	410.1	365.4	305.8	236.2	33.1
22.5°	546.2	542.8	536.6	525.2	512.8	489.5	458.6	409.6	339.4	256.4	25.1
25°	549.3	547.9	546.2	542.4	535.0	518.4	488.3	435.4	360.3	266.2	18.5
27.5°	547.7	547.1	546.8	544.8	539.9	523.5	492.6	439.2	357.6	250.9	13.6
30°	570.9	569.3	568.4	561.9	549.0	523.7	483.4	418.7	317.8	205.3	9.8
32.5°	582.8	582.4	581.5	575.1	557.0	524.1	467.7	369.1	252.0	148.3	6.7
35°	580.4	578.6	575.3	563.5	538.2	497.0	417.2	294.7	181.9	99.4	4.4
37.5°	572.4	568.2	561.9	540.6	507.0	450.7	338.4	217.0	123.7	64.3	2.5
40°	543.0	537.3	527.3	501.3	457.2	371.4	250.2	146.6	81.2	37.1	0.7
42.5°	466.8	459.6	452.3	423.2	372.7	276.9	164.6	90.7	46.3	20.4	0.2
45°	320.0	310.9	300.9	279.8	239.3	167.7	97.9	51.1	24.0	11.4	0.2
47.5°	222.2	218.1	200.6	173.7	133.2	88.9	50.7	25.1	12.7	5.3	0.2
50°	151.0	146.3	125.9	99.9	70.9	42.5	23.3	12.5	5.6	1.3	0.2
52.5°	79.2	73.4	60.5	46.2	28.7	17.8	10.2	5.5	1.6	0.2	0.2
55°	11.6	10.7	8.7	7.1	6.4	4.9	2.9	1.3	0.2	0.2	0.4
57.5°	0.4	0.4	0.4	0.4	0.5	0.5	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	0.5
70°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.5
72.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.5
75°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.5
77.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.5
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	0.5
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°	25.4	25.4	25.4	25.4	25.4
2.5°	25.1	18.5	14.4	12.4	12.2
5°	22.7	13.3	8.7	6.7	6.4
7.5°	19.3	9.3	5.1	3.6	3.5
10°	15.8	6.4	3.1	2.5	2.4
12.5°	12.5	4.2	2.2	2.0	1.8
15°	9.6	2.7	1.6	1.5	1.5
17.5°	7.3	1.8	1.3	1.3	1.3
20°	5.5	1.3	0.9	1.1	1.1
22.5°	3.8	0.9	0.7	0.9	0.9
25°	2.7	0.7	0.7	0.9	0.9
27.5°	1.8	0.5	0.5	0.7	0.9
30°	1.1	0.4	0.5	0.7	0.9
32.5°	0.5	0.4	0.5	0.9	0.9
35°	0.4	0.5	0.7	0.9	1.1
37.5°	0.2	0.5	0.7	1.1	1.1
40°	0.2	0.5	0.7	1.1	1.3
42.5°	0.4	0.7	0.9	1.3	1.5
45°	0.4	0.7	1.1	1.5	1.6
47.5°	0.4	0.7	1.3	1.6	1.6
50°	0.5	0.9	1.3	1.6	1.8
52.5°	0.5	0.9	1.3	1.8	2.0
55°	0.5	0.9	1.5	1.8	2.0
57.5°	0.5	1.1	1.5	1.8	2.0
60°	0.5	0.9	1.5	1.8	2.0
62.5°	0.7	0.9	1.3	1.8	1.8
65°	0.7	0.9	1.3	1.8	1.8
67.5°	0.7	0.9	1.3	1.6	1.6
70°	0.7	0.9	1.1	1.5	1.5
72.5°	0.7	0.9	1.1	1.3	1.5
75°	0.5	0.7	0.9	1.1	1.3
77.5°	0.5	0.7	0.7	1.1	1.1
80°	0.5	0.5	0.5	0.7	0.7
82.5°	0.5	0.5	0.4	0.5	0.5
85°	0.5	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)