

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: P1338920

Luminaire Tested: P3A05R409727DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1338920
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: P3A05R409727DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R40 optic, 2700K CCT AND, 97CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

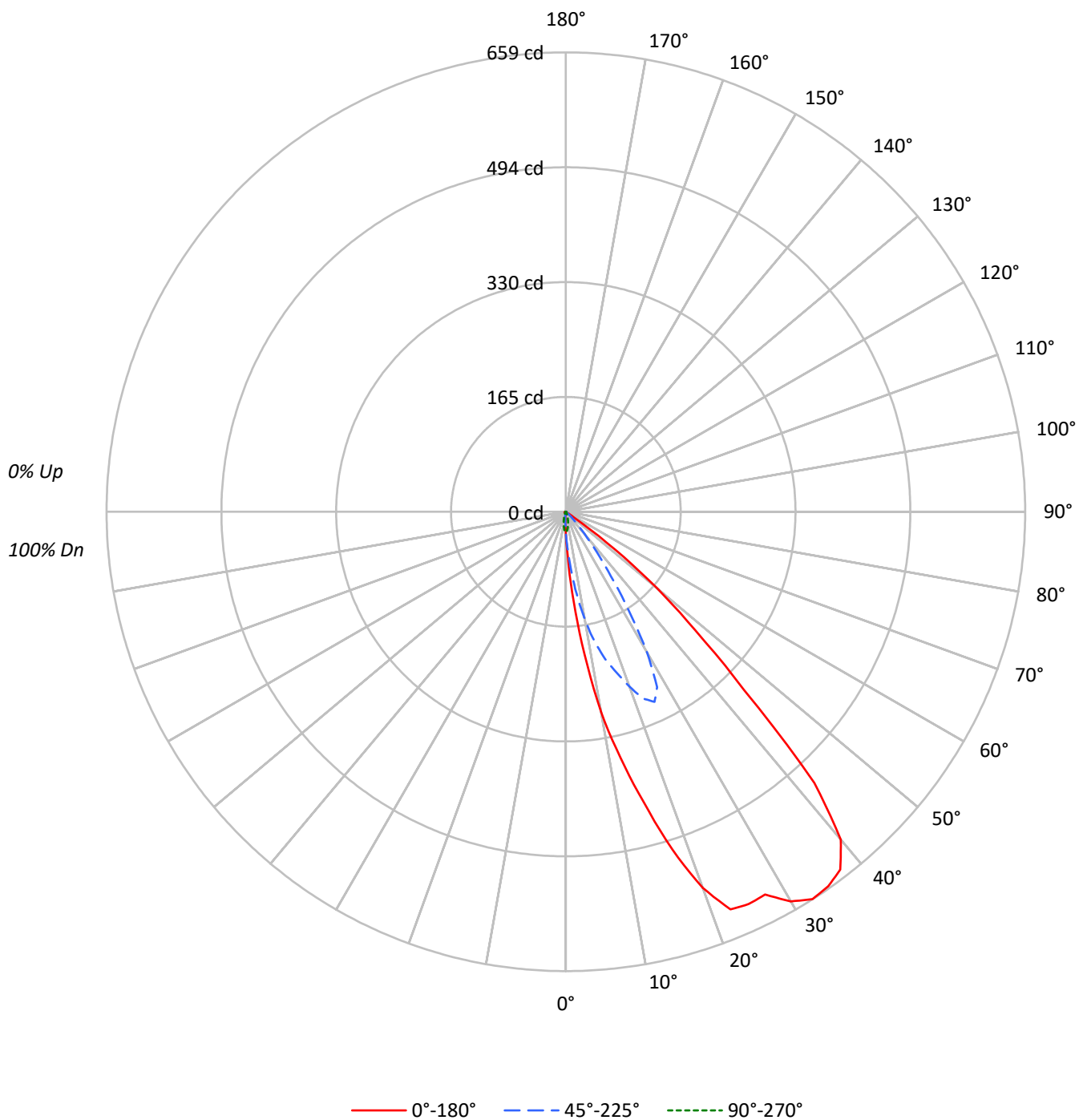
Lumens per Lamp: N/A
Luminaire Lumens: 242.9 lumens
Efficiency: N/A
Efficacy: 33.7 lumens/watt
Spacing Criteria (0/90/45): 2.52 / 0.42 / 1.24
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93
2	105	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76
4	92	83	77	71	90	82	76	71	80	74	70	78	73	69	76	72	68
5	86	76	69	64	84	75	68	64	73	67	63	71	66	62	70	65	62
6	80	70	63	57	79	69	62	57	67	61	57	66	60	56	64	60	56
7	75	64	57	52	74	63	56	52	62	56	51	61	55	51	59	54	51
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46
9	66	54	47	42	65	54	47	42	53	46	42	52	46	42	51	46	42
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	6315	6315	6315	6315	6315
5°	28439	18138	5657	2179	1585
10°	65218	35025	3986	779	601
15°	97867	49694	2474	409	363
20°	133992	62305	1447	233	280
25°	150226	72803	750	194	242
30°	163392	58769	304	152	253
35°	175606	30062	107	214	321
40°	175672	11994	57	229	401
45°	112167	4000	124	372	558
50°	58233	478	205	478	716
55°	5008	76	229	612	879
60°	175	88	263	702	1009
65°	208	104	415	726	1090
70°	128	128	513	769	1026
75°	169	169	508	847	1186
80°	253	253	758	758	1010
85°	0	503	1510	1006	1006

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 112167 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.6	2.3
10°-20°	32.9	13.5
20°-30°	72.0	29.6
30°-40°	82.1	33.8
40°-50°	43.3	17.8
50°-60°	5.1	2.1
60°-70°	0.9	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°	110.5	45.5
0°-40°	192.6	79.3
0°-60°	241.0	99.2
0°-90°	242.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	242.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	29	29	29	29	29	
5°	129	82	26	10	7	17
15°	431	219	11	2	2	127
25°	621	301	3	1	1	286
35°	656	112	0	1	1	407
45°	362	13	0	1	2	292
55°	13	0	1	2	2	41
65°	0	0	1	1	2	0
75°	0	0	1	1	1	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°	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8
2.5°	64.1	64.1	63.9	62.0	61.8	61.6	58.3	57.5	53.6	50.9	38.8
5°	129.2	126.3	126.1	122.8	117.3	109.9	105.2	97.6	90.2	82.4	47.9
7.5°	205.8	208.3	201.5	198.0	185.7	176.8	163.3	151.4	134.7	119.1	55.2
10°	292.9	288.6	281.8	275.0	261.7	245.8	225.7	204.6	180.5	157.3	59.4
12.5°	360.9	355.3	351.2	342.0	328.8	308.5	284.5	256.1	224.3	190.8	59.1
15°	431.1	425.5	416.3	408.1	388.6	365.8	339.7	302.3	263.3	218.9	54.8
17.5°	508.3	501.1	490.9	478.3	459.4	434.2	401.1	355.5	300.3	241.9	47.0
20°	574.2	569.9	559.7	544.9	526.4	501.7	463.5	413.0	345.7	267.0	37.4
22.5°	617.4	613.5	606.5	593.5	579.6	553.3	518.4	462.9	383.6	289.8	28.3
25°	620.9	619.2	617.4	613.1	604.6	585.9	551.9	492.1	407.3	300.9	20.9
27.5°	619.0	618.4	618.0	615.7	610.2	591.7	556.8	496.4	404.2	283.6	15.4
30°	645.3	643.5	642.4	635.0	620.5	591.9	546.3	473.2	359.2	232.1	11.1
32.5°	658.7	658.2	657.2	650.0	629.5	592.3	528.6	417.1	284.9	167.6	7.6
35°	656.0	653.9	650.2	636.9	608.3	561.7	471.6	333.1	205.6	112.3	4.9
37.5°	646.9	642.2	635.0	611.0	573.0	509.3	382.4	245.2	139.9	72.7	2.9
40°	613.7	607.3	596.0	566.6	516.7	419.8	282.8	165.7	91.8	41.9	0.8
42.5°	527.6	519.4	511.2	478.3	421.2	313.0	186.1	102.5	52.4	23.0	0.2
45°	361.7	351.4	340.1	316.3	270.5	189.6	110.7	57.7	27.1	12.9	0.2
47.5°	251.2	246.5	226.7	196.3	150.5	100.4	57.3	28.3	14.4	6.0	0.2
50°	170.7	165.3	142.3	113.0	80.1	48.1	26.3	14.2	6.4	1.4	0.2
52.5°	89.5	83.0	68.4	52.2	32.4	20.1	11.5	6.2	1.8	0.2	0.2
55°	13.1	12.1	9.9	8.0	7.2	5.5	3.3	1.4	0.2	0.2	0.4
57.5°	0.4	0.4	0.4	0.4	0.6	0.6	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	0.6
70°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.6
72.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.6
75°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.6
77.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.6
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	0.6
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°	28.8	28.8	28.8	28.8	28.8
2.5°	28.3	20.9	16.2	14.0	13.8
5°	25.7	15.0	9.9	7.6	7.2
7.5°	21.8	10.5	5.8	4.1	3.9
10°	17.9	7.2	3.5	2.9	2.7
12.5°	14.2	4.7	2.5	2.3	2.1
15°	10.9	3.1	1.8	1.6	1.6
17.5°	8.2	2.1	1.4	1.4	1.4
20°	6.2	1.4	1.0	1.2	1.2
22.5°	4.3	1.0	0.8	1.0	1.0
25°	3.1	0.8	0.8	1.0	1.0
27.5°	2.1	0.6	0.6	0.8	1.0
30°	1.2	0.4	0.6	0.8	1.0
32.5°	0.6	0.4	0.6	1.0	1.0
35°	0.4	0.6	0.8	1.0	1.2
37.5°	0.2	0.6	0.8	1.2	1.2
40°	0.2	0.6	0.8	1.2	1.4
42.5°	0.4	0.8	1.0	1.4	1.6
45°	0.4	0.8	1.2	1.6	1.8
47.5°	0.4	0.8	1.4	1.8	1.8
50°	0.6	1.0	1.4	1.8	2.1
52.5°	0.6	1.0	1.4	2.1	2.3
55°	0.6	1.0	1.6	2.1	2.3
57.5°	0.6	1.2	1.6	2.1	2.3
60°	0.6	1.0	1.6	2.1	2.3
62.5°	0.8	1.0	1.4	2.1	2.1
65°	0.8	1.0	1.4	2.1	2.1
67.5°	0.8	1.0	1.4	1.8	1.8
70°	0.8	1.0	1.2	1.6	1.6
72.5°	0.8	1.0	1.2	1.4	1.6
75°	0.6	0.8	1.0	1.2	1.4
77.5°	0.6	0.8	0.8	1.2	1.2
80°	0.6	0.6	0.6	0.8	0.8
82.5°	0.6	0.6	0.4	0.6	0.6
85°	0.6	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)