

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: P1338984

Luminaire Tested: P3A05R409827DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1338984
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: P3A05R409827DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R40 optic, 2700K CCT AND, 98CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

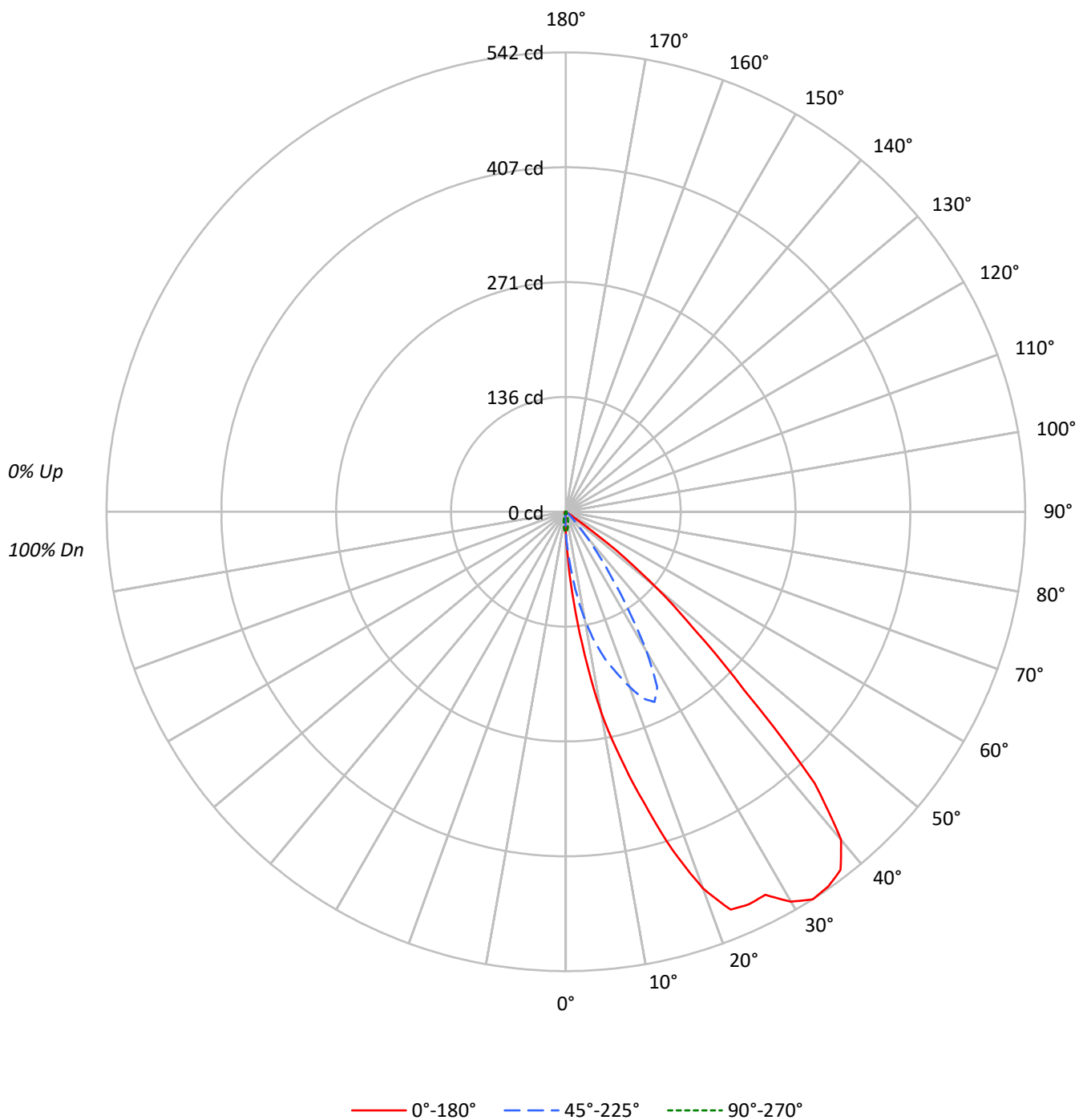
Lumens per Lamp: N/A
Luminaire Lumens: 200.0 lumens
Efficiency: N/A
Efficacy: 27.8 lumens/watt
Spacing Criteria (0/90/45): 2.52 / 0.42 / 1.24
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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			0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	112	109	106	104	110	107	104	102	103	101	99		99	97	96		96	94	93	91
2	105	100	95	91	103	98	94	90	95	91	88		92	89	86		89	86	84	82
3	99	91	85	80	97	90	84	80	87	82	78		84	80	77		82	79	76	74
4	92	83	77	71	90	82	76	71	80	74	70		78	73	69		76	72	68	67
5	86	76	69	64	84	75	68	64	73	67	63		71	66	62		70	65	62	60
6	80	70	62	57	79	69	62	57	67	61	57		66	60	56		64	60	56	54
7	75	64	57	52	74	63	56	51	62	56	51		61	55	51		59	54	51	49
8	70	59	52	47	69	58	51	47	57	51	46		56	50	46		55	50	46	44
9	66	54	47	42	65	54	47	42	53	46	42		52	46	42		51	46	42	40
10	62	50	43	39	61	50	43	39	49	43	38		48	42	38		47	42	38	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	5197	5197	5197	5197	5197
5°	23399	14924	4644	1783	1299
10°	53662	28835	3273	646	490
15°	80545	40908	2043	341	318
20°	110283	51268	1190	187	233
25°	123636	59907	605	169	194
30°	134476	48362	253	127	203
35°	144527	24762	80	187	268
40°	144585	9876	57	200	344
45°	92320	3287	93	310	465
50°	47930	409	171	409	580
55°	4129	76	191	535	726
60°	132	88	219	614	833
65°	156	104	363	623	882
70°	128	128	449	641	898
75°	169	169	424	678	1017
80°	253	253	631	631	884
85°	0	503	1258	755	755

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 92320 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.6	2.3
10°-20°	27.1	13.5
20°-30°	59.3	29.6
30°-40°	67.5	33.8
40°-50°	35.6	17.8
50°-60°	4.2	2.1
60°-70°	0.8	0.4
70°-80°	0.6	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°	91.0	45.5
0°-40°	158.5	79.3
0°-60°	198.3	99.2
0°-90°	200.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	200.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	24	24	24	24	24	
5°	106	68	21	8	6	14
15°	355	180	9	2	1	105
25°	511	248	2	1	1	235
35°	540	92	0	1	1	335
45°	298	11	0	1	2	240
55°	11	0	0	1	2	34
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°	23.7	23.7	23.7	23.7	23.7	23.7	23.7	23.7	23.7	23.7	23.7
2.5°	52.7	52.7	52.6	51.0	50.9	50.7	48.0	47.3	44.1	41.9	31.9
5°	106.3	104.0	103.8	101.1	96.5	90.4	86.5	80.3	74.2	67.8	39.4
7.5°	169.4	171.4	165.8	163.0	152.8	145.5	134.4	124.6	110.9	98.0	45.5
10°	241.0	237.5	231.9	226.3	215.4	202.3	185.8	168.4	148.6	129.5	48.9
12.5°	297.0	292.4	289.1	281.4	270.6	253.9	234.1	210.8	184.6	157.0	48.7
15°	354.8	350.2	342.6	335.9	319.8	301.1	279.6	248.8	216.7	180.2	45.1
17.5°	418.4	412.4	404.0	393.7	378.1	357.3	330.1	292.6	247.1	199.1	38.7
20°	472.6	469.1	460.6	448.5	433.2	413.0	381.5	339.9	284.5	219.7	30.8
22.5°	508.1	504.9	499.2	488.5	477.0	455.4	426.6	381.0	315.8	238.5	23.3
25°	511.0	509.6	508.1	504.6	497.6	482.3	454.2	405.0	335.2	247.6	17.2
27.5°	509.5	509.0	508.6	506.8	502.2	487.0	458.3	408.6	332.7	233.4	12.7
30°	531.1	529.6	528.7	522.7	510.7	487.2	449.6	389.5	295.6	191.0	9.1
32.5°	542.1	541.8	540.9	535.0	518.1	487.5	435.1	343.3	234.5	137.9	6.3
35°	539.9	538.2	535.2	524.2	500.7	462.3	388.1	274.2	169.2	92.5	4.1
37.5°	532.5	528.6	522.7	502.9	471.6	419.2	314.7	201.8	115.1	59.8	2.4
40°	505.1	499.8	490.5	466.4	425.3	345.5	232.8	136.4	75.6	34.5	0.7
42.5°	434.3	427.5	420.7	393.7	346.7	257.6	153.1	84.3	43.1	18.9	0.2
45°	297.7	289.2	279.9	260.3	222.6	156.0	91.1	47.5	22.3	10.6	0.2
47.5°	206.7	202.8	186.6	161.6	123.9	82.7	47.2	23.3	11.8	4.9	0.2
50°	140.5	136.1	117.1	93.0	65.9	39.6	21.6	11.7	5.2	1.2	0.2
52.5°	73.7	68.3	56.3	42.9	26.7	16.6	9.5	5.1	1.5	0.2	0.2
55°	10.8	10.0	8.1	6.6	5.9	4.6	2.7	1.2	0.2	0.2	0.3
57.5°	0.3	0.3	0.3	0.3	0.5	0.5	0.3	0.2	0.2	0.2	0.3
60°	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.3
62.5°	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.3
65°	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.3
67.5°	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.3	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	0.3	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	0.3	0.5
80°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3
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	0.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.3
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°	23.7	23.7	23.7	23.7	23.7
2.5°	23.3	17.2	13.4	11.5	11.3
5°	21.1	12.3	8.1	6.3	5.9
7.5°	17.9	8.6	4.7	3.4	3.2
10°	14.7	5.9	2.9	2.4	2.2
12.5°	11.7	3.9	2.0	1.9	1.7
15°	9.0	2.5	1.5	1.4	1.4
17.5°	6.8	1.7	1.2	1.2	1.2
20°	5.1	1.2	0.8	1.0	1.0
22.5°	3.5	0.8	0.7	0.8	0.8
25°	2.5	0.7	0.7	0.8	0.8
27.5°	1.7	0.5	0.5	0.7	0.8
30°	1.0	0.3	0.5	0.7	0.8
32.5°	0.5	0.3	0.5	0.8	0.8
35°	0.3	0.5	0.7	0.8	1.0
37.5°	0.2	0.5	0.7	1.0	1.0
40°	0.2	0.5	0.7	1.0	1.2
42.5°	0.3	0.7	0.8	1.2	1.4
45°	0.3	0.7	1.0	1.4	1.5
47.5°	0.3	0.7	1.2	1.5	1.5
50°	0.5	0.8	1.2	1.5	1.7
52.5°	0.5	0.8	1.2	1.7	1.9
55°	0.5	0.8	1.4	1.7	1.9
57.5°	0.5	1.0	1.4	1.7	1.9
60°	0.5	0.8	1.4	1.7	1.9
62.5°	0.7	0.8	1.2	1.7	1.7
65°	0.7	0.8	1.2	1.7	1.7
67.5°	0.7	0.8	1.2	1.5	1.5
70°	0.7	0.8	1.0	1.4	1.4
72.5°	0.7	0.8	1.0	1.2	1.4
75°	0.5	0.7	0.8	1.0	1.2
77.5°	0.5	0.7	0.7	1.0	1.0
80°	0.5	0.5	0.5	0.7	0.7
82.5°	0.5	0.5	0.3	0.5	0.5
85°	0.5	0.3	0.3	0.3	0.3
87.5°	0.3	0.3	0.2	0.2	0.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)