

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: P1339320

Luminaire Tested: P3A05R459024DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1339320
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: P3A05R459024DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R45 optic, 2400K CCT AND, 90CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

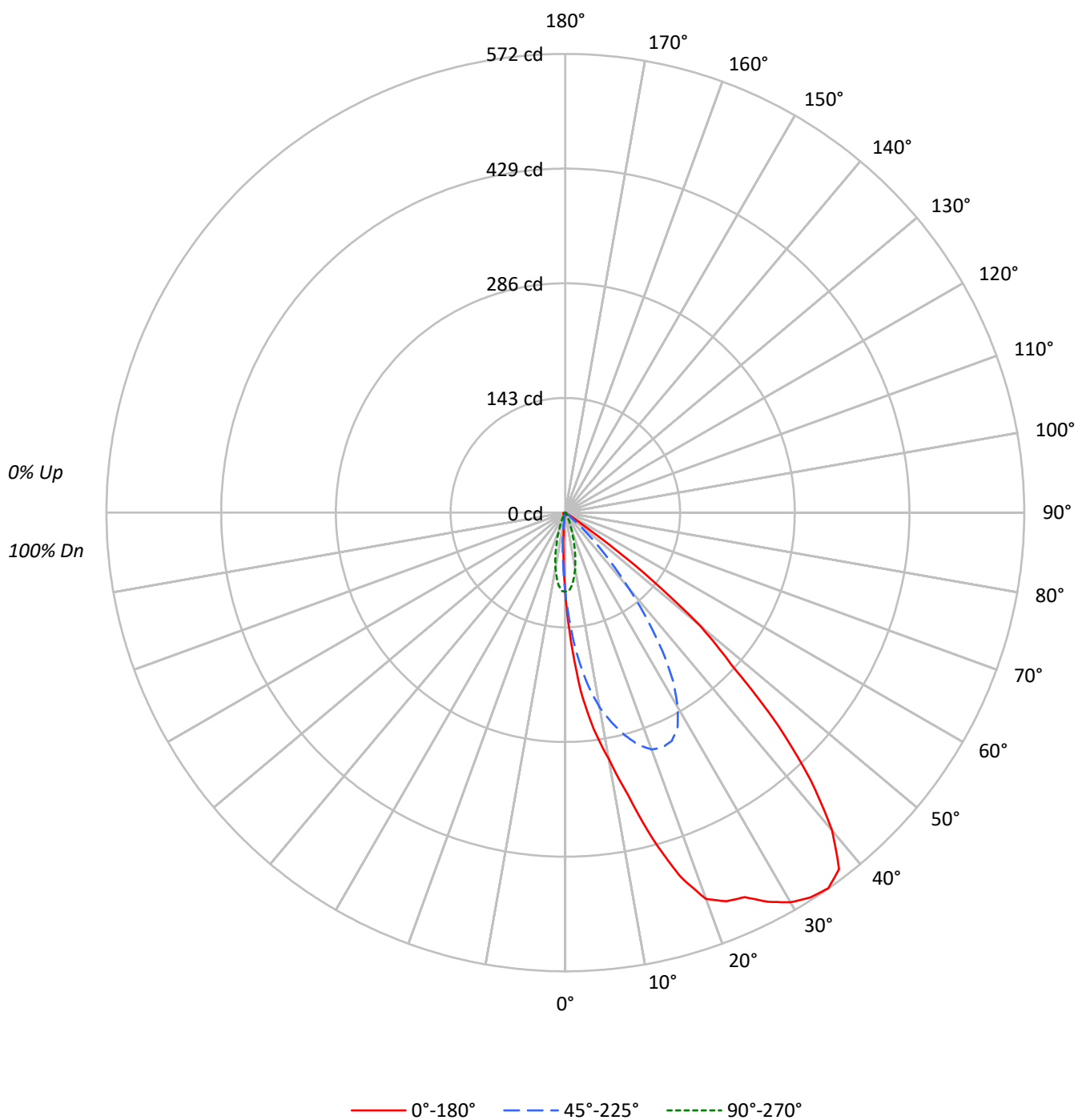
Lumens per Lamp: N/A
Luminaire Lumens: 258.9 lumens
Efficiency: N/A
Efficacy: 36.0 lumens/watt
Spacing Criteria (0/90/45): 2.13 / 0.47 / 1.22
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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°	21621	21621	21621	21621	21621
5°	49262	39951	20207	8100	5525
10°	69404	54887	15631	1781	824
15°	95642	65290	9989	590	499
20°	119594	73343	5204	397	397
25°	127967	75948	2419	315	363
30°	142047	70922	1089	329	380
35°	153013	56537	348	348	455
40°	148049	35037	172	429	544
45°	116260	16529	186	527	682
50°	74710	1910	307	648	887
55°	11354	153	344	841	1070
60°	175	175	395	965	1140
65°	208	208	467	986	1349
70°	256	256	577	1090	1539
75°	169	339	763	1271	1610
80°	253	505	758	1389	1894
85°	0	503	1006	1510	1510

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 116260 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.8	4.2
10°-20°	39.0	15.1
20°-30°	68.5	26.5
30°-40°	77.8	30.0
40°-50°	50.4	19.5
50°-60°	9.9	3.8
60°-70°	1.2	0.5
70°-80°	1.0	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°	118.3	45.7
0°-40°	196.1	75.7
0°-60°	256.3	99.0
0°-90°	258.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	258.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	99	99	99	99	99	
5°	224	182	92	37	25	24
15°	421	288	44	3	2	121
25°	529	314	10	1	2	248
35°	572	211	1	1	2	351
45°	375	53	1	2	2	283
55°	30	0	1	2	3	57
65°	0	0	1	2	3	0
75°	0	0	1	2	2	0
85°	0	0	0	1	1	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°	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
2.5°	160.1	159.6	160.3	156.0	155.7	152.5	151.6	147.9	143.0	140.6	134.9
5°	223.8	221.6	221.6	216.4	214.7	211.0	204.7	196.9	190.4	181.5	172.0
7.5°	272.9	272.5	272.5	267.9	263.6	258.4	250.0	241.1	230.7	217.0	203.2
10°	311.7	312.3	310.4	306.3	300.0	294.4	284.4	273.6	260.8	246.5	228.1
12.5°	360.6	355.9	354.4	345.0	337.0	326.2	314.3	301.9	286.1	268.2	247.4
15°	421.3	415.2	409.2	396.8	383.4	366.7	348.1	329.9	309.5	287.6	261.7
17.5°	475.4	475.4	467.4	447.9	430.6	405.9	380.8	356.5	332.5	303.7	271.2
20°	512.5	510.5	504.5	490.2	470.5	442.5	409.8	375.8	346.8	314.3	276.6
22.5°	524.6	524.2	524.4	516.0	500.1	471.1	431.0	391.0	354.6	316.9	274.0
25°	528.9	529.8	532.0	528.7	516.8	487.8	444.0	398.1	357.0	313.9	264.0
27.5°	546.9	545.2	547.6	545.4	532.0	497.3	446.6	396.4	351.8	302.8	246.3
30°	561.0	560.6	564.7	562.7	545.2	503.4	444.3	389.9	339.0	280.1	218.3
32.5°	569.0	569.2	570.3	562.3	536.3	490.2	432.6	376.7	314.9	250.4	181.9
35°	571.6	570.3	564.3	544.5	509.0	459.6	403.7	345.3	282.2	211.2	143.8
37.5°	560.4	553.6	538.0	508.6	467.4	421.3	366.9	305.6	237.4	166.8	107.2
40°	517.2	508.4	488.7	458.6	420.2	375.6	319.9	255.8	184.1	122.4	75.4
42.5°	452.7	448.2	427.6	401.4	368.9	323.8	266.4	201.4	136.2	84.5	48.1
45°	374.9	369.1	356.1	332.9	307.4	260.1	206.6	144.3	92.9	53.3	23.8
47.5°	281.2	281.6	272.7	255.2	230.0	190.6	141.4	96.8	58.3	27.5	5.4
50°	219.0	216.0	203.4	185.4	156.2	126.9	91.4	61.1	30.8	5.6	0.4
52.5°	121.3	123.2	116.5	110.7	95.5	75.8	53.9	31.0	6.5	0.6	0.4
55°	29.7	31.4	30.1	30.8	31.8	28.4	21.9	6.1	0.6	0.4	0.4
57.5°	0.6	0.6	0.6	0.6	1.1	1.5	1.5	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°	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
2.5°	132.1	128.0	120.4	97.9	78.6	63.5	54.4	53.5
5°	163.5	152.5	136.5	91.8	58.0	36.8	26.6	25.1
7.5°	188.4	172.8	148.2	81.9	39.6	18.8	10.4	8.7
10°	209.0	186.9	154.2	70.2	24.9	8.0	4.3	3.7
12.5°	223.1	196.5	155.3	57.2	14.3	3.9	2.8	2.6
15°	232.2	199.5	150.1	44.0	8.0	2.6	2.4	2.2
17.5°	235.9	196.9	140.1	31.8	4.3	1.9	1.9	1.9
20°	234.1	188.4	125.4	22.3	2.8	1.7	1.7	1.7
22.5°	225.9	173.9	107.0	14.9	1.9	1.5	1.5	1.5
25°	209.7	154.2	87.5	10.0	1.3	1.3	1.5	1.5
27.5°	185.4	130.0	66.9	6.7	1.1	1.3	1.5	1.5
30°	154.9	102.9	48.1	4.3	1.1	1.3	1.3	1.5
32.5°	123.0	74.9	31.6	2.6	0.9	1.3	1.5	1.7
35°	89.2	51.1	20.1	1.3	1.1	1.3	1.5	1.7
37.5°	62.6	33.4	11.7	0.9	1.1	1.3	1.7	1.7
40°	40.7	18.6	4.3	0.6	1.1	1.5	1.7	1.9
42.5°	21.2	6.5	0.9	0.6	1.1	1.5	1.9	2.2
45°	5.4	0.9	0.2	0.6	1.3	1.7	2.2	2.2
47.5°	0.6	0.2	0.2	0.9	1.3	1.9	2.2	2.4
50°	0.2	0.4	0.4	0.9	1.3	1.9	2.4	2.6
52.5°	0.4	0.4	0.4	0.9	1.5	1.9	2.6	2.8
55°	0.4	0.4	0.4	0.9	1.5	2.2	2.6	2.8
57.5°	0.4	0.4	0.4	0.9	1.5	2.2	2.6	2.6
60°	0.4	0.4	0.4	0.9	1.5	2.2	2.6	2.6
62.5°	0.4	0.4	0.6	0.9	1.5	1.9	2.6	2.6
65°	0.4	0.6	0.6	0.9	1.5	1.9	2.4	2.6
67.5°	0.4	0.4	0.6	0.9	1.5	1.9	2.4	2.6
70°	0.4	0.4	0.6	0.9	1.3	1.7	2.2	2.4
72.5°	0.4	0.4	0.6	0.9	1.3	1.7	1.9	2.2
75°	0.4	0.4	0.6	0.9	1.1	1.5	1.9	1.9
77.5°	0.4	0.4	0.6	0.6	1.1	1.3	1.7	1.7
80°	0.4	0.4	0.6	0.6	0.9	1.1	1.3	1.5
82.5°	0.4	0.4	0.4	0.6	0.6	0.9	1.1	1.1
85°	0.4	0.4	0.4	0.4	0.4	0.6	0.6	0.6
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)