

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: P1335646

Luminaire Tested: P3A02R409030D2WDE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1335646
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: P3A02R409030D2WDE010 E3A301WMH
Description: 3in Adjustable Dim to Warm LED luminaire with, R40 optic, 3000K CCT AND, 90CRI ,
E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

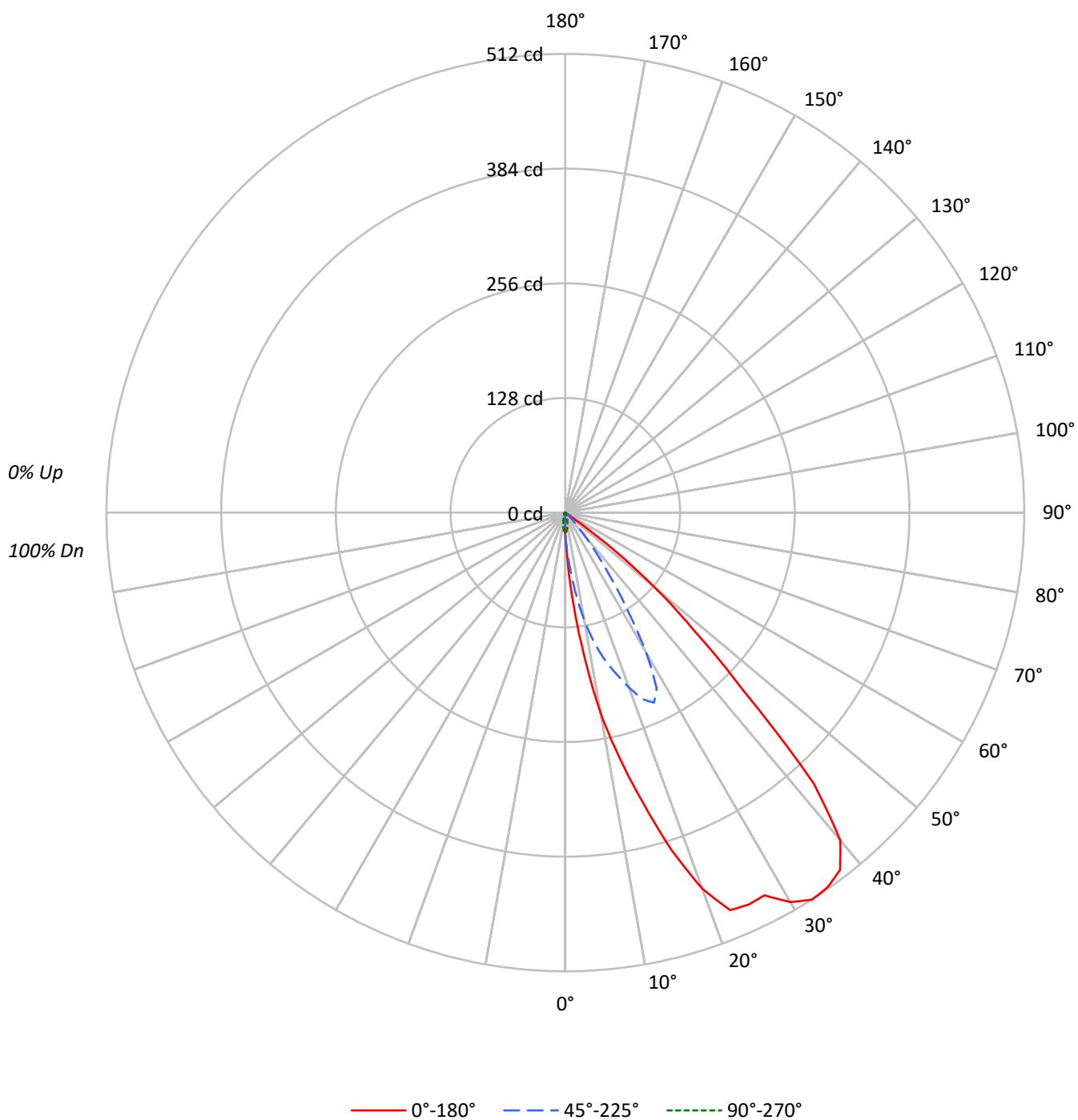
Lumens per Lamp: N/A
Luminaire Lumens: 189.0 lumens
Efficiency: N/A
Efficacy: 26.3 lumens/watt
Spacing Criteria (0/90/45): 2.52 / 0.41 / 1.24
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	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°	4912	4912	4912	4912	4912
5°	22122	14110	4402	1695	1233
10°	50723	27254	3095	601	468
15°	76118	38661	1930	318	295
20°	104216	48468	1120	187	233
25°	116837	56616	581	145	194
30°	127083	45703	253	127	203
35°	136577	23396	80	161	268
40°	136627	9332	57	172	315
45°	87234	3132	93	310	434
50°	45269	375	171	375	546
55°	3900	76	191	497	688
60°	132	88	219	570	789
65°	156	104	311	571	830
70°	128	128	385	641	833
75°	169	169	424	678	932
80°	253	253	631	631	758
85°	0	503	1258	755	755

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 87234 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.4	2.3
10°-20°	25.6	13.5
20°-30°	56.0	29.6
30°-40°	63.8	33.8
40°-50°	33.7	17.8
50°-60°	4.0	2.1
60°-70°	0.7	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°	86.0	45.5
0°-40°	149.8	79.2
0°-60°	187.4	99.2
0°-90°	189.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	189.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	22	22	22	22	22	
5°	100	64	20	8	6	14
15°	335	170	8	1	1	99
25°	483	234	2	1	1	223
35°	510	87	0	1	1	316
45°	281	10	0	1	1	227
55°	10	0	0	1	2	32
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°	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4
2.5°	49.8	49.8	49.7	48.2	48.1	47.9	45.4	44.7	41.7	39.6	30.2
5°	100.5	98.2	98.1	95.5	91.2	85.5	81.8	75.9	70.1	64.1	37.2
7.5°	160.1	162.0	156.7	154.0	144.4	137.5	127.0	117.7	104.8	92.6	43.0
10°	227.8	224.4	219.2	213.9	203.5	191.2	175.6	159.1	140.4	122.4	46.2
12.5°	280.7	276.3	273.2	266.0	255.7	239.9	221.2	199.2	174.4	148.4	46.0
15°	335.3	331.0	323.8	317.4	302.2	284.5	264.2	235.1	204.8	170.3	42.7
17.5°	395.4	389.8	381.8	372.0	357.3	337.7	312.0	276.5	233.5	188.2	36.6
20°	446.6	443.3	435.3	423.8	409.4	390.2	360.5	321.2	268.8	207.7	29.1
22.5°	480.2	477.1	471.7	461.6	450.8	430.3	403.2	360.1	298.4	225.4	22.0
25°	482.9	481.6	480.2	476.8	470.3	455.7	429.2	382.7	316.8	234.0	16.3
27.5°	481.5	481.0	480.7	478.9	474.6	460.2	433.1	386.1	314.4	220.6	12.0
30°	501.9	500.5	499.7	493.9	482.6	460.4	424.9	368.0	279.4	180.5	8.6
32.5°	512.3	512.0	511.2	505.6	489.6	460.7	411.2	324.4	221.6	130.3	5.9
35°	510.2	508.6	505.7	495.4	473.1	436.9	366.8	259.1	159.9	87.4	3.8
37.5°	503.2	499.5	493.9	475.2	445.7	396.2	297.4	190.7	108.8	56.5	2.2
40°	477.3	472.3	463.6	440.7	401.9	326.5	220.0	128.9	71.4	32.6	0.6
42.5°	410.4	404.0	397.6	372.0	327.6	243.4	144.7	79.7	40.7	17.9	0.2
45°	281.3	273.3	264.5	246.0	210.4	147.4	86.1	44.9	21.1	10.1	0.2
47.5°	195.4	191.7	176.4	152.7	117.1	78.1	44.6	22.0	11.2	4.6	0.2
50°	132.7	128.6	110.7	87.9	62.3	37.4	20.4	11.0	5.0	1.1	0.2
52.5°	69.6	64.5	53.2	40.6	25.2	15.7	8.9	4.8	1.4	0.2	0.2
55°	10.2	9.4	7.7	6.2	5.6	4.3	2.6	1.1	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°	22.4	22.4	22.4	22.4	22.4
2.5°	22.0	16.3	12.6	10.9	10.7
5°	20.0	11.7	7.7	5.9	5.6
7.5°	16.9	8.1	4.5	3.2	3.0
10°	13.9	5.6	2.7	2.2	2.1
12.5°	11.0	3.7	1.9	1.8	1.6
15°	8.5	2.4	1.4	1.3	1.3
17.5°	6.4	1.6	1.1	1.1	1.1
20°	4.8	1.1	0.8	1.0	1.0
22.5°	3.4	0.8	0.6	0.8	0.8
25°	2.4	0.6	0.6	0.8	0.8
27.5°	1.6	0.5	0.5	0.6	0.8
30°	1.0	0.3	0.5	0.6	0.8
32.5°	0.5	0.3	0.5	0.8	0.8
35°	0.3	0.5	0.6	0.8	1.0
37.5°	0.2	0.5	0.6	1.0	1.0
40°	0.2	0.5	0.6	1.0	1.1
42.5°	0.3	0.6	0.8	1.1	1.3
45°	0.3	0.6	1.0	1.3	1.4
47.5°	0.3	0.6	1.1	1.4	1.4
50°	0.5	0.8	1.1	1.4	1.6
52.5°	0.5	0.8	1.1	1.6	1.8
55°	0.5	0.8	1.3	1.6	1.8
57.5°	0.5	1.0	1.3	1.6	1.8
60°	0.5	0.8	1.3	1.6	1.8
62.5°	0.6	0.8	1.1	1.6	1.6
65°	0.6	0.8	1.1	1.6	1.6
67.5°	0.6	0.8	1.1	1.4	1.4
70°	0.6	0.8	1.0	1.3	1.3
72.5°	0.6	0.8	1.0	1.1	1.3
75°	0.5	0.6	0.8	1.0	1.1
77.5°	0.5	0.6	0.6	1.0	1.0
80°	0.5	0.5	0.5	0.6	0.6
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)