

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: P1342386

Luminaire Tested: P3A09R409030D2WDE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1342386
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: P3A09R409030D2WDE010 E3A301WMH
Description: 3in Adjustable Dim to Warm LED luminaire with, R40 optic, 3000K CCT AND, 90CRI ,
E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

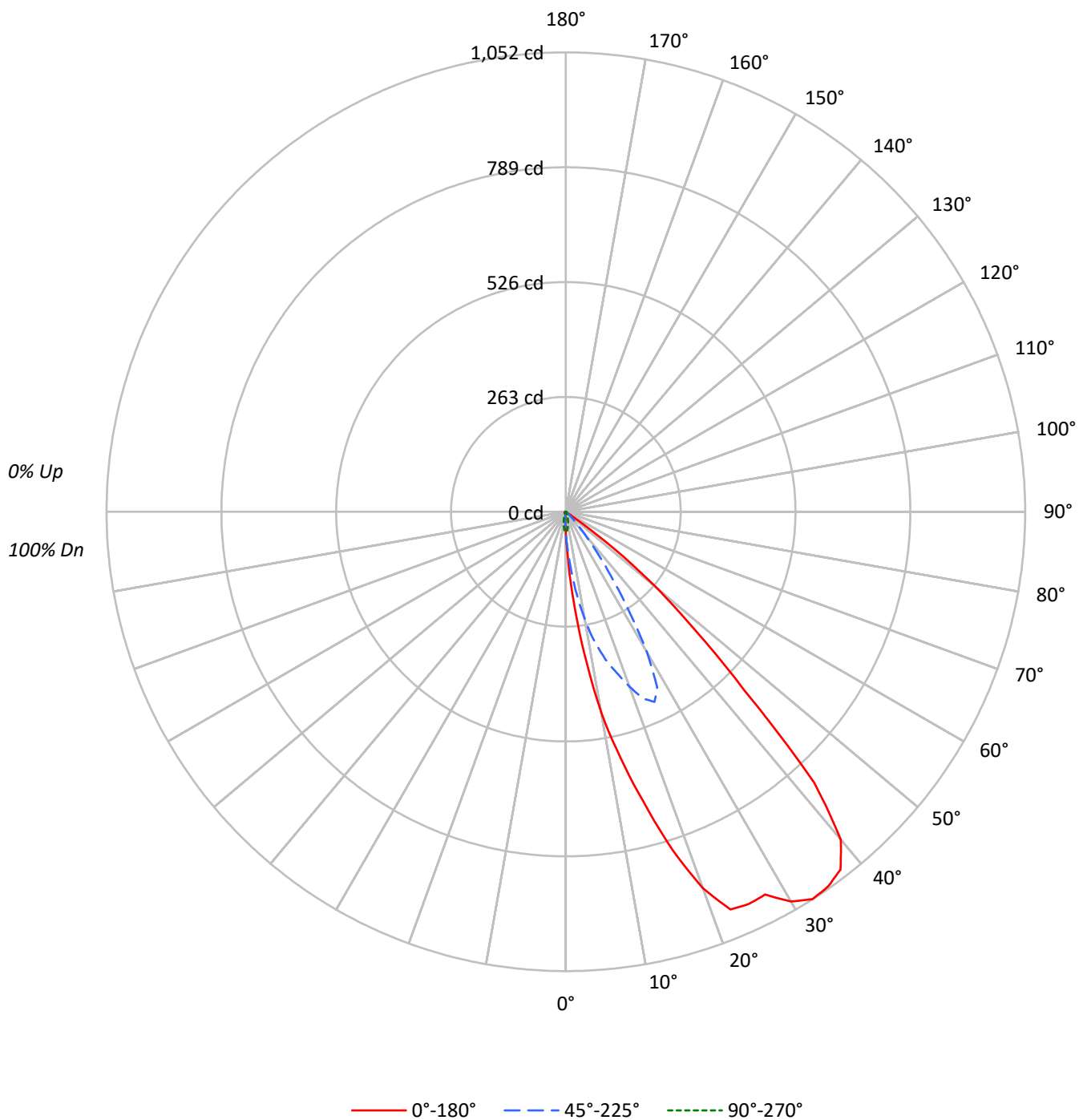
Lumens per Lamp: N/A
Luminaire Lumens: 388.0 lumens
Efficiency: N/A
Efficacy: 26.4 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.41 / 1.24
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.7
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°	10065	10065	10065	10065	10065
5°	45410	28946	9025	3456	2531
10°	104117	55933	6346	1247	957
15°	156255	79365	3950	681	590
20°	213962	99479	2287	373	467
25°	239844	116233	1186	315	387
30°	260901	93837	506	253	405
35°	280381	48024	187	348	535
40°	280497	19150	86	372	658
45°	179088	6419	217	620	930
50°	92961	785	341	785	1126
55°	8028	115	382	994	1376
60°	307	132	439	1140	1579
65°	363	156	675	1193	1712
70°	192	192	833	1282	1667
75°	254	254	847	1356	1949
80°	379	379	1263	1263	1642
85°	0	755	2516	1761	1761

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 179088 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.9	2.3
10°-20°	52.5	13.5
20°-30°	115.0	29.6
30°-40°	131.0	33.8
40°-50°	69.1	17.8
50°-60°	8.2	2.1
60°-70°	1.5	0.4
70°-80°	1.2	0.3
80°-90°	0.6	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°	176.5	45.5
0°-40°	307.5	79.2
0°-60°	384.8	99.2
0°-90°	388.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	388.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	46	46	46	46	46	
5°	206	132	41	16	12	28
15°	688	350	17	3	3	203
25°	991	480	5	1	2	457
35°	1047	179	1	1	2	649
45°	578	21	1	2	3	466
55°	21	0	1	3	4	65
65°	1	0	1	2	3	1
75°	0	0	1	2	2	0
85°	0	0	1	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°	67.5°
0°	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9
2.5°	102.3	102.3	102.0	99.0	98.7	98.4	93.1	91.8	85.6	81.3	62.0
5°	206.3	201.7	201.3	196.1	187.2	175.4	167.9	155.8	144.0	131.5	76.4
7.5°	328.6	332.5	321.7	316.1	296.4	282.3	260.7	241.7	215.1	190.2	88.2
10°	467.6	460.7	449.9	439.1	417.8	392.5	360.4	326.6	288.3	251.2	94.8
12.5°	576.2	567.3	560.8	546.0	525.0	492.6	454.2	408.9	358.1	304.6	94.4
15°	688.3	679.5	664.7	651.6	620.4	584.0	542.4	482.7	420.4	349.6	87.6
17.5°	811.6	800.2	783.8	763.8	733.6	693.2	640.4	567.6	479.4	386.3	75.1
20°	916.9	910.0	893.6	870.0	840.5	801.1	740.1	659.5	551.9	426.3	59.7
22.5°	985.8	979.5	968.4	947.7	925.4	883.4	827.7	739.2	612.6	462.7	45.3
25°	991.3	988.7	985.8	978.9	965.4	935.6	881.1	785.7	650.3	480.4	33.4
27.5°	988.4	987.4	986.7	983.1	974.3	944.8	889.0	792.6	645.4	452.9	24.6
30°	1030.4	1027.4	1025.8	1014.0	990.7	945.1	872.3	755.6	573.6	370.6	17.7
32.5°	1051.7	1051.0	1049.4	1037.9	1005.1	945.8	844.1	666.0	454.8	267.6	12.1
35°	1047.4	1044.1	1038.2	1016.9	971.3	896.9	752.9	531.9	328.3	179.4	7.9
37.5°	1033.0	1025.4	1014.0	975.6	914.9	813.3	610.6	391.5	223.3	116.1	4.6
40°	979.9	969.7	951.7	904.8	825.1	670.3	451.6	264.6	146.6	66.9	1.3
42.5°	842.5	829.3	816.2	763.8	672.6	499.8	297.1	163.6	83.6	36.7	0.3
45°	577.5	561.1	543.1	505.0	431.9	302.7	176.8	92.1	43.3	20.7	0.3
47.5°	401.1	393.5	362.0	313.5	240.4	160.4	91.5	45.3	23.0	9.5	0.3
50°	272.5	264.0	227.3	180.4	127.9	76.7	42.0	22.6	10.2	2.3	0.3
52.5°	143.0	132.5	109.2	83.3	51.8	32.1	18.4	9.8	3.0	0.3	0.3
55°	21.0	19.3	15.7	12.8	11.5	8.9	5.2	2.3	0.3	0.3	0.7
57.5°	0.7	0.7	0.7	0.7	1.0	1.0	0.7	0.3	0.3	0.3	0.7
60°	0.7	0.7	0.7	0.7	0.7	0.3	0.3	0.3	0.3	0.3	0.7
62.5°	0.7	0.7	0.7	0.7	0.7	0.3	0.3	0.3	0.3	0.3	0.7
65°	0.7	0.7	0.7	0.7	0.7	0.3	0.3	0.3	0.3	0.3	0.7
67.5°	0.7	0.7	0.7	0.7	0.3	0.3	0.3	0.3	0.3	0.7	1.0
70°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	1.0
72.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.7	1.0
75°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	1.0
77.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.7	1.0
80°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.7
82.5°	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3	0.3	1.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.7
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°	45.9	45.9	45.9	45.9	45.9
2.5°	45.3	33.4	25.9	22.3	22.0
5°	41.0	23.9	15.7	12.1	11.5
7.5°	34.8	16.7	9.2	6.6	6.2
10°	28.5	11.5	5.6	4.6	4.3
12.5°	22.6	7.5	3.9	3.6	3.3
15°	17.4	4.9	3.0	2.6	2.6
17.5°	13.1	3.3	2.3	2.3	2.3
20°	9.8	2.3	1.6	2.0	2.0
22.5°	6.9	1.6	1.3	1.6	1.6
25°	4.9	1.3	1.3	1.6	1.6
27.5°	3.3	1.0	1.0	1.3	1.6
30°	2.0	0.7	1.0	1.3	1.6
32.5°	1.0	0.7	1.0	1.6	1.6
35°	0.7	1.0	1.3	1.6	2.0
37.5°	0.3	1.0	1.3	2.0	2.0
40°	0.3	1.0	1.3	2.0	2.3
42.5°	0.7	1.3	1.6	2.3	2.6
45°	0.7	1.3	2.0	2.6	3.0
47.5°	0.7	1.3	2.3	3.0	3.0
50°	1.0	1.6	2.3	3.0	3.3
52.5°	1.0	1.6	2.3	3.3	3.6
55°	1.0	1.6	2.6	3.3	3.6
57.5°	1.0	2.0	2.6	3.3	3.6
60°	1.0	1.6	2.6	3.3	3.6
62.5°	1.3	1.6	2.3	3.3	3.3
65°	1.3	1.6	2.3	3.3	3.3
67.5°	1.3	1.6	2.3	3.0	3.0
70°	1.3	1.6	2.0	2.6	2.6
72.5°	1.3	1.6	2.0	2.3	2.6
75°	1.0	1.3	1.6	2.0	2.3
77.5°	1.0	1.3	1.3	2.0	2.0
80°	1.0	1.0	1.0	1.3	1.3
82.5°	1.0	1.0	0.7	1.0	1.0
85°	1.0	0.7	0.7	0.7	0.7
87.5°	0.7	0.7	0.3	0.3	0.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)