

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: P1335982

Luminaire Tested: P3A02R459030D2WDE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1335982
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: P3A02R459030D2WDE010 E3A301WMH
Description: 3in Adjustable Dim to Warm LED luminaire with, R45 optic, 3000K CCT AND, 90CRI ,
E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

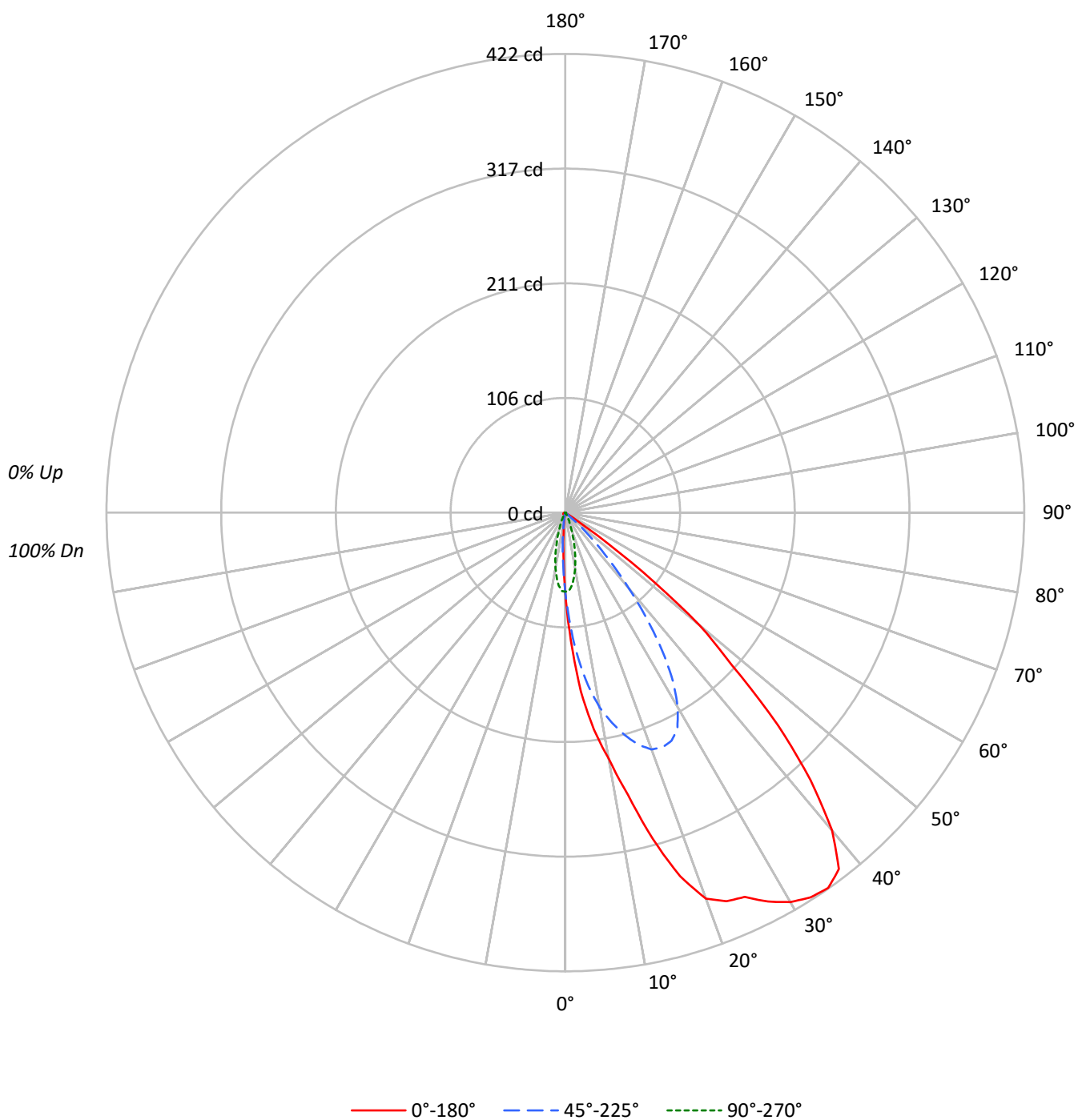
Lumens per Lamp: N/A
Luminaire Lumens: 191.0 lumens
Efficiency: N/A
Efficacy: 26.5 lumens/watt
Spacing Criteria (0/90/45): 2.13 / 0.47 / 1.22
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	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	93	90	95	91	88	91	88	86	89	86	84	82		
3	99	91	85	80	96	89	84	80	87	82	78	84	80	77	82	79	76	74		
4	92	83	76	71	90	82	76	71	80	74	70	77	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	81	70	63	57	79	69	62	57	67	61	57	66	60	56	64	60	56	54		
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	60	55	51	49		
8	71	59	52	47	69	59	52	47	57	51	47	56	51	47	55	50	46	45		
9	66	55	48	43	65	54	47	43	53	47	43	52	47	43	51	46	42	41		
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	15942	15942	15942	15942	15942
5°	36320	29474	14902	5987	4072
10°	51190	40480	11534	1314	601
15°	70534	48150	7355	431	363
20°	88184	54091	3850	303	303
25°	94384	56011	1766	242	266
30°	104750	52287	810	253	279
35°	112832	41680	268	268	348
40°	109176	25848	143	315	401
45°	85745	12187	155	403	496
50°	55094	1433	205	478	648
55°	8372	115	229	612	803
60°	132	132	263	702	833
65°	156	156	311	726	986
70°	192	192	385	833	1154
75°	169	254	508	932	1186
80°	253	379	631	1010	1389
85°	0	503	755	1258	1258

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 85745 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.0	4.2
10°-20°	28.8	15.1
20°-30°	50.5	26.5
30°-40°	57.4	30.0
40°-50°	37.2	19.5
50°-60°	7.3	3.8
60°-70°	0.9	0.5
70°-80°	0.7	0.4
80°-90°	0.3	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°	87.2	45.7
0°-40°	144.6	75.7
0°-60°	189.0	99.0
0°-90°	191.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	191.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	73	73	73	73	73	
5°	165	134	68	27	18	18
15°	311	212	32	2	2	90
25°	390	232	7	1	1	183
35°	422	156	1	1	1	259
45°	276	39	0	1	2	208
55°	22	0	1	2	2	42
65°	0	0	1	1	2	0
75°	0	0	1	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°	50°
0°	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7
2.5°	118.0	117.7	118.2	115.0	114.8	112.5	111.8	109.1	105.4	103.7	99.5
5°	165.0	163.4	163.4	159.6	158.3	155.6	150.9	145.2	140.4	133.9	126.8
7.5°	201.3	200.9	200.9	197.6	194.4	190.6	184.3	177.8	170.1	160.1	149.8
10°	229.9	230.3	228.9	225.9	221.2	217.1	209.7	201.7	192.3	181.8	168.2
12.5°	266.0	262.4	261.3	254.5	248.5	240.6	231.8	222.7	211.0	197.8	182.4
15°	310.7	306.2	301.7	292.6	282.7	270.4	256.7	243.3	228.3	212.1	193.0
17.5°	350.6	350.6	344.7	330.3	317.6	299.3	280.8	262.9	245.2	223.9	200.0
20°	377.9	376.5	372.0	361.5	346.9	326.3	302.2	277.1	255.7	231.8	204.0
22.5°	386.9	386.6	386.7	380.5	368.8	347.4	317.9	288.3	261.5	233.7	202.1
25°	390.1	390.7	392.3	389.9	381.1	359.7	327.5	293.6	263.2	231.5	194.7
27.5°	403.3	402.1	403.8	402.2	392.3	366.8	329.4	292.3	259.4	223.3	181.6
30°	413.7	413.4	416.4	415.0	402.1	371.2	327.6	287.5	250.0	206.5	161.0
32.5°	419.6	419.8	420.6	414.7	395.5	361.5	319.0	277.8	232.3	184.7	134.2
35°	421.5	420.6	416.1	401.6	375.4	339.0	297.7	254.6	208.1	155.7	106.1
37.5°	413.2	408.3	396.8	375.1	344.7	310.7	270.6	225.4	175.1	123.0	79.1
40°	381.4	374.9	360.4	338.2	309.9	277.0	235.9	188.6	135.8	90.3	55.6
42.5°	333.8	330.5	315.3	296.0	272.0	238.8	196.5	148.6	100.5	62.3	35.5
45°	276.5	272.2	262.6	245.5	226.7	191.8	152.4	106.4	68.5	39.3	17.6
47.5°	207.3	207.7	201.1	188.2	169.6	140.6	104.3	71.4	43.0	20.3	4.0
50°	161.5	159.3	150.0	136.7	115.2	93.6	67.4	45.0	22.7	4.2	0.3
52.5°	89.5	90.9	85.9	81.6	70.4	55.9	39.8	22.8	4.8	0.5	0.3
55°	21.9	23.2	22.2	22.7	23.5	20.9	16.1	4.5	0.5	0.3	0.3
57.5°	0.5	0.5	0.5	0.5	0.8	1.1	1.1	0.3	0.3	0.3	0.3
60°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
62.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
65°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
67.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
70°	0.3	0.3	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
72.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3
75°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3
77.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3
80°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3
82.5°	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.3
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°	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7
2.5°	97.4	94.4	88.8	72.2	58.0	46.8	40.1	39.5
5°	120.6	112.5	100.6	67.7	42.8	27.2	19.6	18.5
7.5°	139.0	127.5	109.3	60.4	29.2	13.9	7.7	6.4
10°	154.1	137.9	113.7	51.8	18.4	5.9	3.2	2.7
12.5°	164.5	144.9	114.5	42.2	10.5	2.9	2.1	1.9
15°	171.2	147.1	110.7	32.4	5.9	1.9	1.8	1.6
17.5°	174.0	145.2	103.3	23.5	3.2	1.4	1.4	1.4
20°	172.7	139.0	92.5	16.5	2.1	1.3	1.3	1.3
22.5°	166.6	128.3	78.9	11.0	1.4	1.1	1.1	1.1
25°	154.6	113.7	64.5	7.3	1.0	1.0	1.1	1.1
27.5°	136.7	95.8	49.4	5.0	0.8	1.0	1.1	1.1
30°	114.2	75.9	35.5	3.2	0.8	1.0	1.0	1.1
32.5°	90.7	55.3	23.3	1.9	0.6	1.0	1.1	1.3
35°	65.8	37.7	14.9	1.0	0.8	1.0	1.1	1.3
37.5°	46.2	24.6	8.6	0.6	0.8	1.0	1.3	1.3
40°	30.0	13.7	3.2	0.5	0.8	1.1	1.3	1.4
42.5°	15.7	4.8	0.6	0.5	0.8	1.1	1.4	1.6
45°	4.0	0.6	0.2	0.5	1.0	1.3	1.6	1.6
47.5°	0.5	0.2	0.2	0.6	1.0	1.4	1.6	1.8
50°	0.2	0.3	0.3	0.6	1.0	1.4	1.8	1.9
52.5°	0.3	0.3	0.3	0.6	1.1	1.4	1.9	2.1
55°	0.3	0.3	0.3	0.6	1.1	1.6	1.9	2.1
57.5°	0.3	0.3	0.3	0.6	1.1	1.6	1.9	1.9
60°	0.3	0.3	0.3	0.6	1.1	1.6	1.9	1.9
62.5°	0.3	0.3	0.5	0.6	1.1	1.4	1.9	1.9
65°	0.3	0.5	0.5	0.6	1.1	1.4	1.8	1.9
67.5°	0.3	0.3	0.5	0.6	1.1	1.4	1.8	1.9
70°	0.3	0.3	0.5	0.6	1.0	1.3	1.6	1.8
72.5°	0.3	0.3	0.5	0.6	1.0	1.3	1.4	1.6
75°	0.3	0.3	0.5	0.6	0.8	1.1	1.4	1.4
77.5°	0.3	0.3	0.5	0.5	0.8	1.0	1.3	1.3
80°	0.3	0.3	0.5	0.5	0.6	0.8	1.0	1.1
82.5°	0.3	0.3	0.3	0.5	0.5	0.6	0.8	0.8
85°	0.3	0.3	0.3	0.3	0.3	0.5	0.5	0.5
87.5°	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)