

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: P1334311

Luminaire Tested: P3A02R209027DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1334311
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-60)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A02R209027DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R20 optic, 2700K CCT AND, 90CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

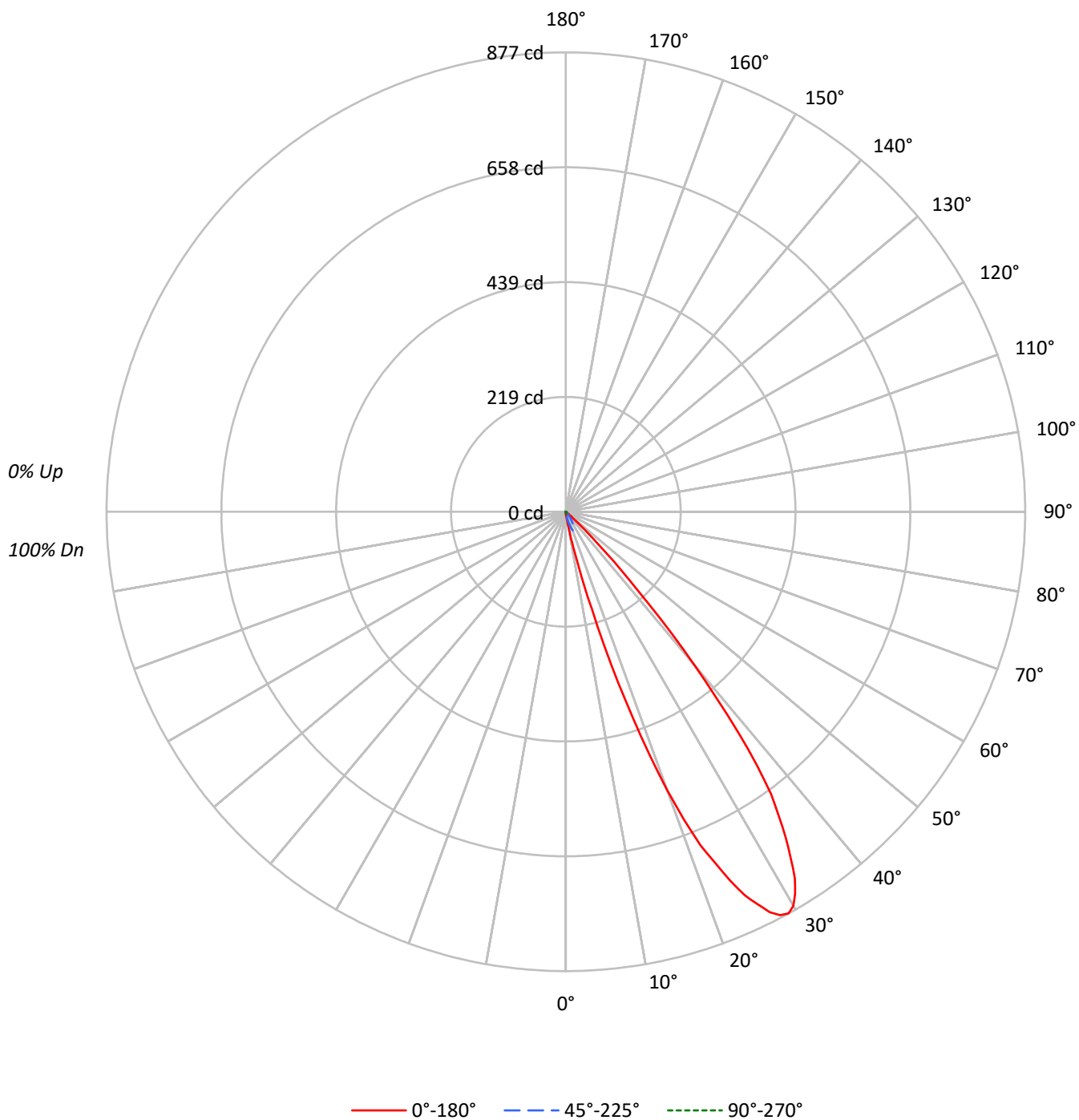
Lumens per Lamp: N/A
Luminaire Lumens: 122.9 lumens
Efficiency: N/A
Efficacy: 34.1 lumens/watt
Spacing Criteria (0/90/45): 2.3 / 0.53 / 1.19
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 3.6
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					0
RW	70	50	30	10	70	50	30	10	70	50	30	10	70	50	30	10	70	50	30	10	
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92			
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	83			
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75			
4	93	84	78	73	91	83	77	72	81	76	71	79	74	71	77	73	70	68			
5	87	77	70	65	85	76	70	65	74	69	64	72	68	64	71	67	63	61			
6	81	71	64	59	80	70	63	58	68	62	58	67	62	58	65	61	57	55			
7	76	65	58	53	74	64	58	53	63	57	52	62	56	52	60	55	52	50			
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45			
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	51	46	43	41			
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	921	921	921	921	921
5°	2135	1607	880	550	462
10°	6724	2783	713	289	223
15°	43632	5153	522	91	23
20°	131658	8797	373	0	0
25°	195519	8880	218	0	0
30°	219882	6761	76	0	0
35°	189714	4042	54	0	0
40°	109233	1374	0	0	0
45°	26638	558	31	0	31
50°	3207	136	34	34	102
55°	421	0	76	76	153
60°	44	0	132	132	263
65°	52	52	208	208	363
70°	64	64	256	256	385
75°	0	85	339	254	339
80°	0	126	379	253	379
85°	0	252	755	252	252

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°

Vertical Angle: 45°

Luminance: 26824 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.6	0.5
10°-20°	11.4	9.3
20°-30°	49.7	40.4
30°-40°	50.0	40.7
40°-50°	10.0	8.2
50°-60°	0.5	0.4
60°-70°	0.3	0.3
70°-80°	0.3	0.2
80°-90°	0.1	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°	61.6	50.2
0°-40°	111.7	90.9
0°-60°	122.2	99.4
0°-90°	122.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	122.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4	4	4	4	4	
5°	10	7	4	2	2	2
15°	192	23	2	0	0	75
25°	808	37	1	0	0	364
35°	709	15	0	0	0	422
45°	86	2	0	0	0	94
55°	1	0	0	0	0	2
65°	0	0	0	0	1	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
2.5°	6.4	6.4	6.2	6.2	6.1	6.2	6.0	6.1	6.1	6.0	5.5
5°	9.7	9.9	9.8	9.8	9.7	9.8	9.6	9.4	9.2	9.2	7.3
7.5°	16.0	15.8	15.6	15.7	15.4	15.2	15.0	14.8	14.2	13.8	9.5
10°	30.2	30.9	30.4	30.2	28.2	28.1	26.8	24.9	23.2	22.3	12.5
12.5°	83.2	86.8	81.2	78.6	77.0	71.0	68.4	61.8	55.5	50.7	15.8
15°	192.2	201.0	189.7	190.5	181.1	163.9	148.9	135.9	120.6	105.2	22.7
17.5°	376.5	369.4	363.2	352.8	333.8	308.5	276.1	243.2	214.7	184.9	31.6
20°	564.2	557.8	543.9	521.2	496.9	459.5	420.9	371.5	323.6	278.8	37.7
21°	628.8	626.7	603.8	589.9	552.4	516.7	472.1	419.2	365.3	312.2	38.7
22°	686.5	673.8	661.5	640.9	603.6	564.8	515.2	459.5	401.1	342.0	38.8
23°	726.5	720.6	709.0	685.7	648.7	603.0	550.8	492.6	431.0	363.1	38.5
24°	770.6	763.3	746.3	719.1	681.7	636.6	577.0	519.2	452.3	380.9	37.6
25°	808.1	796.6	776.6	747.2	706.4	659.8	599.9	536.4	467.1	392.8	36.7
26°	832.5	826.2	800.4	768.5	724.8	676.8	615.6	549.6	476.7	398.3	35.3
27°	857.8	846.3	821.0	784.3	736.8	687.8	624.6	555.9	480.1	398.5	33.5
28°	872.3	859.8	831.1	792.5	744.6	694.0	629.7	558.0	479.4	395.0	31.4
29°	876.9	861.1	833.1	793.9	746.5	694.4	628.9	555.0	473.5	386.5	28.9
30°	868.4	852.3	825.8	787.5	740.5	688.8	621.7	545.5	463.0	374.4	26.7
31°	849.9	836.3	810.6	772.2	727.1	675.8	605.3	529.7	445.1	358.1	24.1
32°	825.4	812.0	786.8	752.1	706.3	654.5	582.8	505.2	424.2	333.8	21.5
33°	788.7	781.0	758.4	725.2	679.4	624.0	552.7	475.8	394.2	306.8	19.3
34°	751.6	741.9	726.0	689.7	640.4	585.2	513.4	435.3	357.8	276.5	17.2
35°	708.7	702.9	678.0	649.0	599.5	543.0	471.7	395.9	315.2	242.8	15.1
36°	667.2	658.3	629.9	599.2	551.1	490.1	419.7	348.5	278.5	211.2	12.8
37°	606.9	593.3	573.1	540.8	484.5	432.5	368.2	302.2	233.3	177.1	10.4
38°	536.1	529.7	501.7	469.1	422.6	373.3	309.7	253.6	192.5	147.9	7.9
39°	452.5	452.4	425.6	402.1	356.5	312.1	254.8	205.9	158.9	119.1	6.1
40°	381.6	368.5	352.0	322.4	287.5	249.7	199.5	161.1	123.3	96.0	4.8
42.5°	200.1	199.0	189.3	167.1	147.5	125.3	99.7	83.0	64.9	52.9	3.0
45°	85.9	86.5	79.8	76.4	68.9	59.6	50.3	42.0	35.9	29.1	1.8
47.5°	21.8	20.9	20.6	21.4	21.4	20.8	18.6	17.5	16.2	14.8	1.0
50°	9.4	9.2	8.9	8.9	8.4	8.0	7.5	6.8	6.2	5.6	0.4
52.5°	3.5	3.6	3.7	3.6	3.6	3.5	3.5	3.3	3.0	2.7	0.2
55°	1.1	1.1	1.1	1.2	1.2	1.3	1.3	1.3	1.3	1.2	0.0
57.5°	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.0
60°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0
62.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
65°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
67.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
70°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
72.5°	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
75°	0.0	0.0	0.0	0.1	0.0	0.1	0.1	0.0	0.1	0.1	0.1
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1



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CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
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):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	4.2	4.2	4.2	4.2	4.2	4.2
2.5°	4.9	4.4	3.7	3.1	3.0	2.9
5°	5.5	4.0	3.0	2.5	2.2	2.1
7.5°	5.9	3.7	2.5	1.8	1.6	1.5
10°	6.1	3.2	2.0	1.3	1.0	1.0
12.5°	6.2	2.8	1.5	0.9	0.6	0.6
15°	6.1	2.3	1.1	0.4	0.1	0.1
17.5°	5.6	1.9	0.7	0.1	0.0	0.0
20°	4.8	1.6	0.4	0.0	0.0	0.0
21°	4.6	1.3	0.3	0.0	0.0	0.0
22°	4.2	1.2	0.2	0.0	0.0	0.0
23°	3.9	1.1	0.2	0.0	0.0	0.0
24°	3.6	1.0	0.1	0.0	0.0	0.0
25°	3.3	0.9	0.1	0.0	0.0	0.0
26°	3.1	0.8	0.1	0.0	0.0	0.0
27°	2.8	0.7	0.0	0.0	0.0	0.0
28°	2.6	0.6	0.0	0.0	0.0	0.0
29°	2.2	0.4	0.0	0.0	0.0	0.0
30°	1.9	0.3	0.0	0.0	0.0	0.0
31°	1.6	0.3	0.0	0.0	0.0	0.0
32°	1.3	0.2	0.0	0.0	0.0	0.0
33°	1.1	0.2	0.0	0.0	0.0	0.0
34°	1.0	0.2	0.0	0.0	0.0	0.0
35°	0.9	0.2	0.0	0.0	0.0	0.0
36°	0.7	0.1	0.0	0.0	0.0	0.0
37°	0.6	0.1	0.0	0.0	0.0	0.0
38°	0.4	0.1	0.0	0.0	0.0	0.0
39°	0.3	0.0	0.0	0.0	0.0	0.0
40°	0.3	0.0	0.0	0.0	0.0	0.0
42.5°	0.1	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.1	0.0	0.0	0.1	0.1
47.5°	0.0	0.1	0.0	0.0	0.1	0.2
50°	0.0	0.1	0.1	0.1	0.2	0.3
52.5°	0.0	0.2	0.1	0.1	0.3	0.3
55°	0.1	0.2	0.1	0.2	0.4	0.4
57.5°	0.1	0.2	0.2	0.3	0.4	0.6
60°	0.2	0.3	0.3	0.3	0.6	0.6
62.5°	0.2	0.3	0.4	0.4	0.6	0.7
65°	0.2	0.4	0.4	0.4	0.6	0.7
67.5°	0.3	0.4	0.4	0.4	0.6	0.7
70°	0.3	0.4	0.4	0.4	0.6	0.6
72.5°	0.3	0.4	0.3	0.4	0.4	0.6
75°	0.3	0.4	0.3	0.3	0.4	0.4
77.5°	0.2	0.3	0.3	0.2	0.3	0.3
80°	0.2	0.3	0.2	0.2	0.3	0.3



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.2	0.3	0.2	0.1	0.2	0.2
85°	0.2	0.3	0.2	0.1	0.1	0.1
87.5°	0.2	0.3	0.2	0.1	0.0	0.1
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)