

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: P1340339

Luminaire Tested: P3A09R209024DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1340339
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: P3A09R209024DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R20 optic, 2400K CCT AND, 90CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

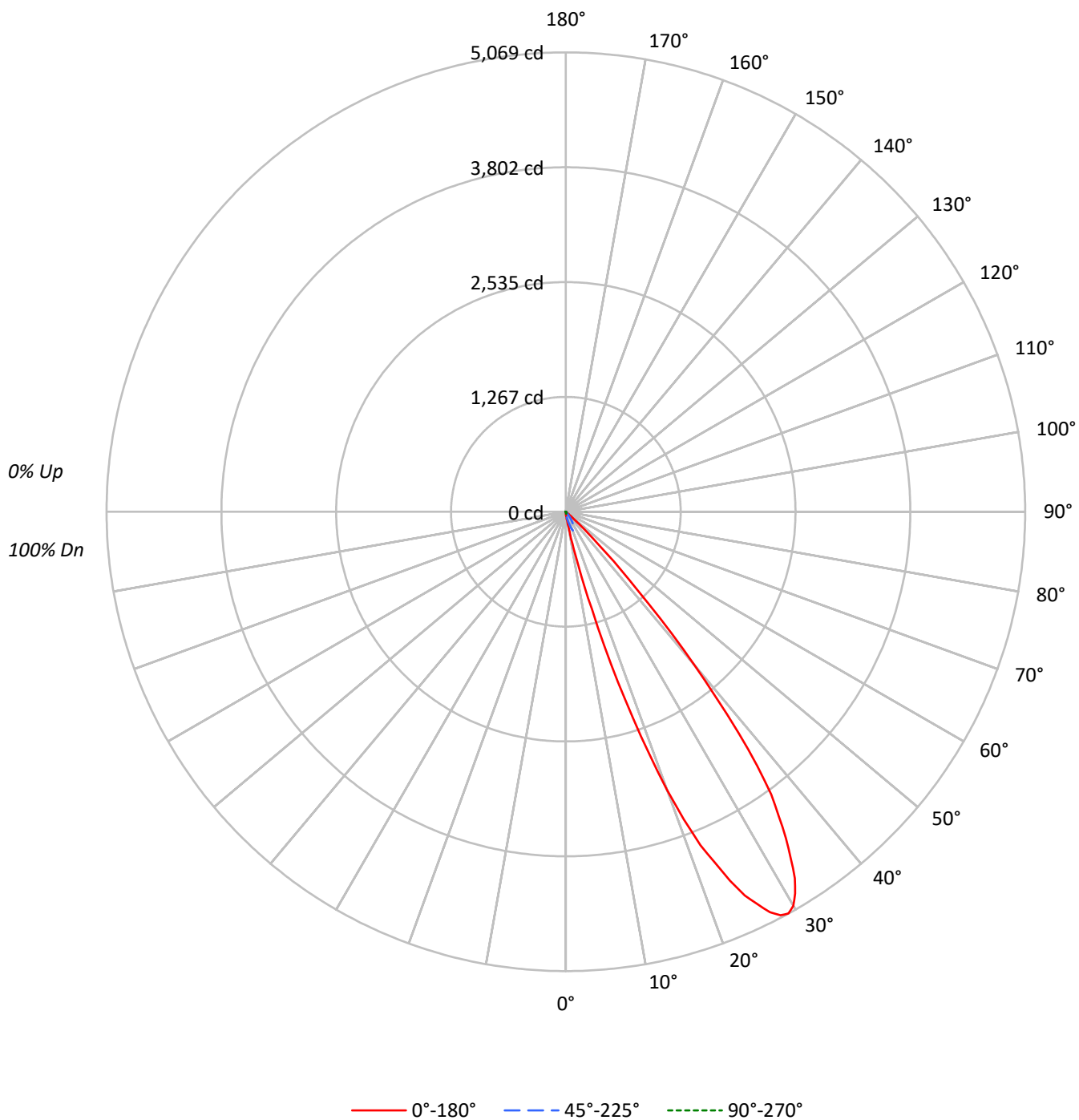
Lumens per Lamp: N/A
Luminaire Lumens: 710.9 lumens
Efficiency: N/A
Efficacy: 64.0 lumens/watt
Spacing Criteria (0/90/45): 2.3 / 0.53 / 1.19
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 11.1
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	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	57	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°	5372	5372	5372	5372	5372
5°	12349	9223	5107	3126	2707
10°	38922	16076	4164	1715	1291
15°	252169	29716	3065	590	136
20°	761060	50871	2100	0	0
25°	1130243	51342	1258	0	0
30°	1271006	39044	481	0	0
35°	1096655	23316	348	0	0
40°	631497	7929	0	0	0
45°	154031	3194	186	0	186
50°	18490	887	205	205	648
55°	2485	0	497	497	994
60°	263	0	833	833	1403
65°	311	311	1349	1349	2024
70°	385	385	1667	1667	2052
75°	0	508	2203	1610	2203
80°	0	758	2399	1642	2399
85°	0	1510	4780	1510	1510

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°

Vertical Angle: 45°

Luminance: 155024 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.3	0.5
10°-20°	65.9	9.3
20°-30°	287.2	40.4
30°-40°	289.2	40.7
40°-50°	58.0	8.2
50°-60°	2.9	0.4
60°-70°	1.9	0.3
70°-80°	1.7	0.2
80°-90°	0.8	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°	356.4	50.1
0°-40°	645.6	90.8
0°-60°	706.5	99.4
0°-90°	710.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	710.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	24	24	24	24	24	
5°	56	42	23	14	12	9
15°	1111	131	14	3	1	435
25°	4671	212	5	0	0	2106
35°	4097	87	1	0	0	2438
45°	497	10	1	0	1	541
55°	6	0	1	1	3	12
65°	1	1	3	3	4	1
75°	0	1	3	2	3	0
85°	0	1	2	1	1	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°	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5
2.5°	36.8	36.8	36.1	36.1	35.5	36.1	34.8	35.5	35.5	34.8	31.6
5°	56.1	57.4	56.8	56.8	56.1	56.8	55.5	54.2	52.9	52.9	41.9
7.5°	92.2	91.6	90.3	91.0	89.0	87.7	86.4	85.8	81.9	80.0	54.8
10°	174.8	178.7	175.5	174.8	163.2	162.6	154.8	143.8	134.2	129.0	72.2
12.5°	481.2	501.8	469.6	454.1	445.1	410.2	395.4	357.4	320.6	292.9	91.6
15°	1110.8	1161.7	1096.6	1101.1	1046.9	947.6	860.5	785.7	697.3	608.3	130.9
17.5°	2176.4	2135.1	2099.6	2039.6	1929.3	1783.6	1595.8	1405.6	1241.1	1068.8	182.5
20°	3261.4	3224.6	3144.0	3013.0	2872.4	2656.3	2433.1	2147.4	1870.6	1611.3	218.0
21°	3634.8	3622.6	3490.3	3409.7	3193.0	2986.6	2729.2	2423.4	2111.9	1804.8	223.8
22°	3968.3	3894.8	3823.8	3704.5	3489.1	3264.6	2978.2	2656.3	2318.3	1977.1	224.5
23°	4199.2	4165.7	4098.6	3963.8	3749.6	3485.8	3183.9	2847.2	2491.2	2099.0	222.5
24°	4454.7	4412.1	4314.1	4156.7	3940.6	3680.0	3335.5	3001.4	2614.4	2201.5	217.4
25°	4671.4	4605.0	4488.9	4319.2	4083.1	3814.2	3467.8	3100.7	2700.2	2270.6	212.2
26°	4812.0	4775.9	4626.9	4442.4	4189.6	3912.2	3558.7	3176.8	2755.6	2302.2	203.8
27°	4958.5	4892.0	4745.6	4533.4	4259.2	3976.1	3610.3	3213.6	2775.0	2303.5	193.5
28°	5042.3	4970.1	4804.3	4581.1	4304.4	4011.5	3640.0	3225.2	2771.1	2283.5	181.3
29°	5068.8	4977.8	4815.9	4588.9	4315.4	4014.1	3635.5	3208.5	2736.9	2234.4	167.1
30°	5019.7	4926.9	4773.3	4552.1	4280.5	3981.9	3593.5	3153.0	2676.3	2164.1	154.2
31°	4912.7	4834.0	4685.6	4463.7	4203.1	3906.4	3498.7	3062.0	2573.1	2070.0	139.3
32°	4771.4	4694.0	4548.2	4347.6	4082.5	3783.2	3369.1	2920.1	2451.8	1929.3	124.5
33°	4559.2	4514.7	4383.7	4192.2	3927.0	3607.1	3194.9	2750.5	2278.9	1773.2	111.6
34°	4344.4	4288.3	4196.7	3987.0	3701.9	3382.6	2967.9	2516.3	2068.0	1598.4	99.3
35°	4096.7	4063.1	3919.3	3751.6	3465.2	3138.8	2726.6	2288.6	1822.3	1403.6	87.1
36°	3856.7	3805.1	3641.3	3463.9	3185.9	2833.0	2426.0	2014.5	1610.0	1221.1	74.2
37°	3508.4	3429.7	3313.0	3125.9	2800.8	2500.2	2128.7	1746.8	1348.8	1023.7	60.0
38°	3098.8	3062.0	2900.1	2711.8	2442.8	2157.7	1790.0	1466.2	1112.7	854.7	45.8
39°	2615.7	2615.0	2460.2	2324.1	2060.9	1804.2	1472.6	1190.1	918.5	688.3	35.5
40°	2206.1	2129.9	2034.5	1863.5	1661.6	1443.6	1153.3	931.4	712.8	554.7	27.7
42.5°	1156.6	1150.1	1094.0	965.6	852.8	724.4	576.0	479.9	375.4	305.8	17.4
45°	496.7	499.9	461.2	441.9	398.0	344.5	290.9	242.5	207.7	168.4	10.3
47.5°	125.8	120.6	119.3	123.8	123.8	120.0	107.7	101.3	93.5	85.8	5.8
50°	54.2	52.9	51.6	51.6	48.4	46.4	43.2	39.3	36.1	32.3	2.6
52.5°	20.0	20.6	21.3	20.6	20.6	20.0	20.0	19.4	17.4	15.5	1.3
55°	6.5	6.5	6.5	7.1	7.1	7.7	7.7	7.7	7.7	7.1	0.0
57.5°	1.3	1.3	1.9	1.9	1.9	1.9	1.9	1.9	2.6	2.6	0.0
60°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.0	0.0
62.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
65°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
67.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
70°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
72.5°	0.6	0.0	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
75°	0.0	0.0	0.0	0.6	0.0	0.6	0.6	0.0	0.6	0.6	0.6
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6



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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	0.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6
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°	24.5	24.5	24.5	24.5	24.5	24.5
2.5°	28.4	25.2	21.3	18.1	17.4	16.8
5°	31.6	23.2	17.4	14.2	12.9	12.3
7.5°	34.2	21.3	14.2	10.3	9.0	8.4
10°	35.5	18.7	11.6	7.7	5.8	5.8
12.5°	36.1	16.1	8.4	5.2	3.2	3.2
15°	35.5	13.5	6.5	2.6	0.6	0.6
17.5°	32.3	11.0	3.9	0.6	0.0	0.0
20°	27.7	9.0	2.6	0.0	0.0	0.0
21°	26.4	7.7	1.9	0.0	0.0	0.0
22°	24.5	7.1	1.3	0.0	0.0	0.0
23°	22.6	6.5	1.3	0.0	0.0	0.0
24°	20.6	5.8	0.6	0.0	0.0	0.0
25°	19.4	5.2	0.6	0.0	0.0	0.0
26°	18.1	4.5	0.6	0.0	0.0	0.0
27°	16.1	3.9	0.0	0.0	0.0	0.0
28°	14.8	3.2	0.0	0.0	0.0	0.0
29°	12.9	2.6	0.0	0.0	0.0	0.0
30°	11.0	1.9	0.0	0.0	0.0	0.0
31°	9.0	1.9	0.0	0.0	0.0	0.0
32°	7.7	1.3	0.0	0.0	0.0	0.0
33°	6.5	1.3	0.0	0.0	0.0	0.0
34°	5.8	1.3	0.0	0.0	0.0	0.0
35°	5.2	1.3	0.0	0.0	0.0	0.0
36°	3.9	0.6	0.0	0.0	0.0	0.0
37°	3.2	0.6	0.0	0.0	0.0	0.0
38°	2.6	0.6	0.0	0.0	0.0	0.0
39°	1.9	0.0	0.0	0.0	0.0	0.0
40°	1.9	0.0	0.0	0.0	0.0	0.0
42.5°	0.6	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.6	0.0	0.0	0.6	0.6
47.5°	0.0	0.6	0.0	0.0	0.6	1.3
50°	0.0	0.6	0.6	0.6	1.3	1.9
52.5°	0.0	1.3	0.6	0.6	1.9	1.9
55°	0.6	1.3	0.6	1.3	2.6	2.6
57.5°	0.6	1.3	1.3	1.9	2.6	3.2
60°	1.3	1.9	1.9	1.9	3.2	3.2
62.5°	1.3	1.9	2.6	2.6	3.2	3.9
65°	1.3	2.6	2.6	2.6	3.2	3.9
67.5°	1.9	2.6	2.6	2.6	3.2	3.9
70°	1.9	2.6	2.6	2.6	3.2	3.2
72.5°	1.9	2.6	1.9	2.6	2.6	3.2
75°	1.9	2.6	1.9	1.9	2.6	2.6
77.5°	1.3	1.9	1.9	1.3	1.9	1.9
80°	1.3	1.9	1.3	1.3	1.9	1.9



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	1.3	1.9	1.3	0.6	1.3	1.3
85°	1.3	1.9	1.3	0.6	0.6	0.6
87.5°	1.3	1.9	1.3	0.6	0.0	0.6
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)