

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: P1339989

Luminaire Tested: P3A09R159740DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1339989
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-59)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A09R159740DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R15 optic, 4000K CCT AND, 97CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

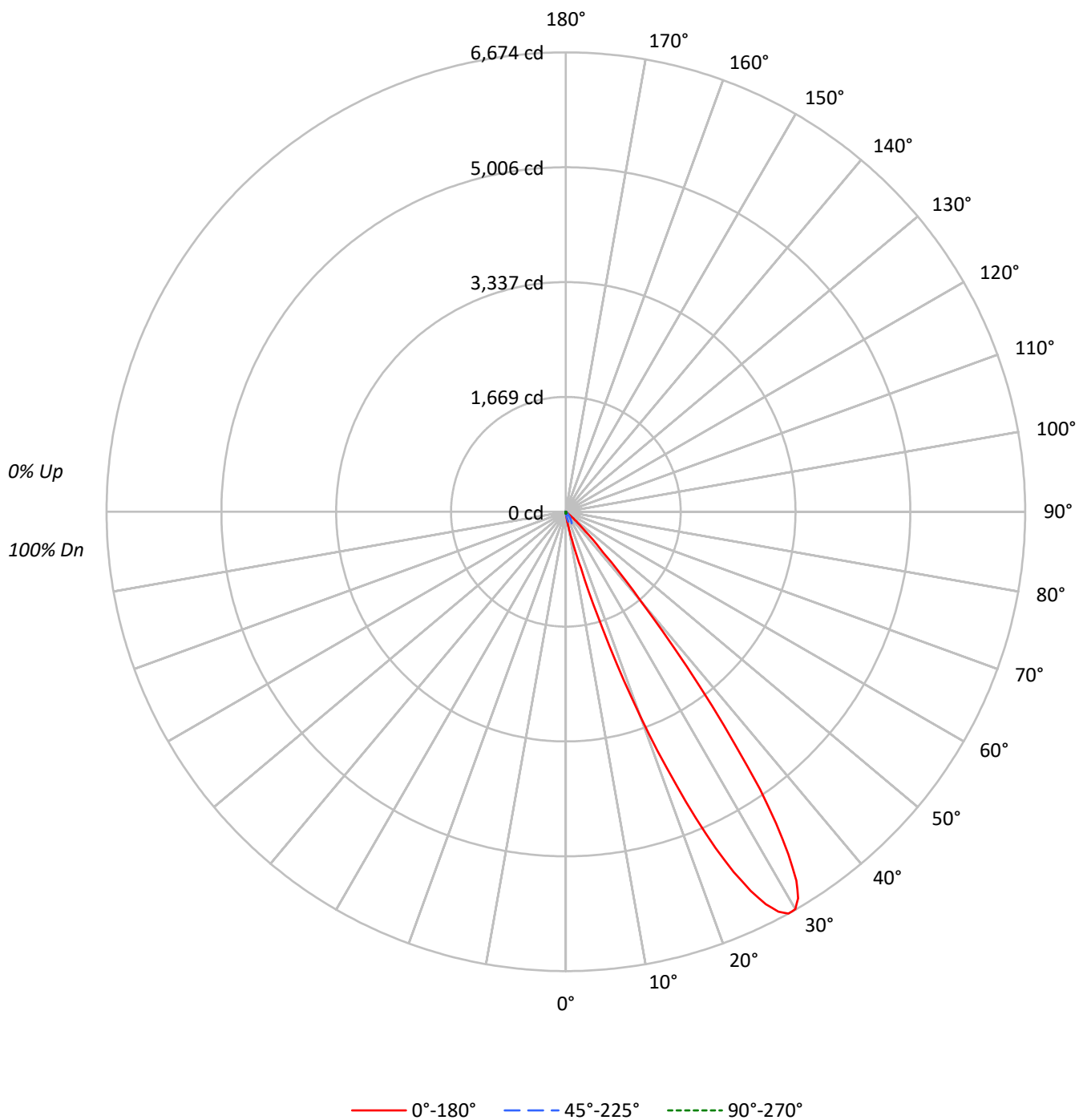
Lumens per Lamp: N/A
Luminaire Lumens: 728.9 lumens
Efficiency: N/A
Efficacy: 65.7 lumens/watt
Spacing Criteria (0/90/45): 2.35 / 0.49 / 1.26
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	75	71	79	74	70	77	73	70	68		
5	87	77	70	65	85	76	70	65	74	69	64	72	67	64	71	66	63	61		
6	81	71	64	59	80	70	63	58	68	62	58	67	61	57	65	61	57	55		
7	76	65	58	53	74	64	57	53	63	57	52	61	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	42	41		
10	62	51	44	39	61	50	43	39	49	43	39	48	43	39	47	42	39	37		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	5285	5285	5285	5285	5285
5°	11402	8431	4997	2663	2179
10°	50522	15943	3941	1113	779
15°	191079	36867	2747	477	318
20°	734901	51968	1657	163	163
25°	1397476	48729	847	0	0
30°	1688184	39323	354	0	0
35°	1316671	26769	187	0	0
40°	480472	13196	200	0	200
45°	123362	3969	217	0	434
50°	20810	478	239	239	716
55°	2714	0	535	803	1338
60°	307	307	921	1228	1886
65°	363	363	1453	1816	2231
70°	449	449	1795	1795	2244
75°	593	593	2372	1779	2372
80°	0	884	2652	1768	2652
85°	0	1761	5284	1761	1761

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 123362 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.3	0.5
10°-20°	55.9	7.7
20°-30°	309.8	42.5
30°-40°	299.3	41.1
40°-50°	52.1	7.1
50°-60°	3.7	0.5
60°-70°	2.2	0.3
70°-80°	1.8	0.2
80°-90°	0.9	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°	369.0	50.6
0°-40°	668.3	91.7
0°-60°	724.1	99.3
0°-90°	728.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	728.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	24	24	24	24	24	
5°	52	38	23	12	10	10
15°	842	162	12	2	1	375
25°	5776	201	4	0	0	2583
35°	4919	100	1	0	0	2829
45°	398	13	1	0	1	427
55°	7	0	1	2	4	14
65°	1	1	3	4	4	1
75°	1	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°	24.1	24.1	24.1	24.1	24.1	24.1	24.1	24.1	24.1	24.1	24.1
2.5°	35.5	34.0	34.7	34.7	34.7	34.7	34.7	33.3	33.3	34.0	30.5
5°	51.8	51.8	51.1	51.8	51.8	51.1	49.6	48.9	48.9	47.5	38.3
7.5°	103.5	102.1	102.1	100.7	93.6	91.5	90.1	86.5	80.1	78.7	49.6
10°	226.9	227.6	222.7	216.3	215.6	204.9	201.4	195.0	183.0	170.9	71.6
12.5°	412.0	402.8	390.7	391.4	370.9	363.8	347.5	329.7	311.3	292.2	117.7
15°	841.7	815.5	831.1	792.8	749.6	700.6	651.0	588.6	535.4	478.7	162.4
17.5°	1772.8	1798.4	1755.1	1591.3	1490.6	1372.2	1205.5	1044.6	907.0	796.4	198.6
20°	3149.3	3186.8	3040.1	2897.5	2652.9	2386.2	2108.3	1793.4	1492.0	1231.1	222.7
21°	3724.4	3701.7	3641.4	3413.1	3130.8	2821.6	2481.3	2133.8	1768.6	1429.6	224.8
22°	4280.3	4291.0	4150.6	3911.6	3618.0	3275.5	2859.9	2430.9	2037.3	1591.3	221.2
23°	4834.2	4868.2	4682.4	4458.3	4088.9	3702.4	3221.6	2758.5	2272.1	1776.4	214.2
24°	5346.9	5323.5	5198.0	4915.7	4520.7	4068.3	3569.1	3007.4	2464.9	1934.5	208.5
25°	5775.9	5773.1	5575.9	5301.5	4849.8	4348.4	3798.1	3211.0	2630.2	2041.6	201.4
26°	6126.9	6069.5	5914.2	5579.5	5133.4	4604.4	3986.0	3359.2	2723.1	2095.5	194.3
27°	6397.8	6356.7	6148.2	5800.0	5334.1	4749.1	4106.6	3432.9	2765.6	2113.2	185.1
28°	6580.1	6535.4	6313.4	5954.6	5444.7	4839.8	4170.4	3464.1	2765.6	2096.2	176.6
29°	6674.4	6613.4	6392.1	6007.8	5470.3	4850.5	4154.8	3433.6	2722.4	2043.7	166.6
30°	6667.3	6591.4	6359.5	5959.6	5394.4	4763.3	4067.6	3323.7	2624.5	1965.7	155.3
31°	6552.4	6467.3	6208.5	5796.5	5237.7	4598.7	3903.1	3176.2	2490.5	1864.3	144.0
32°	6319.1	6211.3	5958.9	5548.3	4996.6	4352.7	3664.1	2948.6	2289.8	1716.1	131.9
33°	5939.0	5830.5	5559.6	5174.5	4670.4	4040.6	3347.1	2703.9	2061.5	1539.5	122.0
34°	5463.2	5363.9	5130.6	4742.7	4259.1	3645.7	2982.6	2365.7	1824.6	1364.4	111.3
35°	4918.6	4760.4	4549.1	4242.0	3770.5	3153.5	2589.0	2050.8	1580.7	1180.7	100.0
36°	4181.8	4210.1	3986.0	3610.2	3219.5	2735.8	2194.1	1709.7	1321.8	1006.3	90.1
37°	3528.6	3484.0	3341.4	3050.7	2710.3	2230.2	1838.8	1449.5	1111.9	851.0	79.4
38°	2846.5	2856.4	2716.7	2493.3	2155.8	1833.8	1480.0	1190.6	930.4	724.0	69.5
39°	2228.1	2220.3	2182.7	1975.6	1670.0	1458.7	1199.1	987.1	775.1	610.6	58.9
40°	1678.5	1691.3	1603.4	1478.5	1300.6	1126.8	955.2	787.1	641.1	514.8	46.1
42.5°	816.2	836.1	777.9	746.0	667.3	599.2	505.6	412.7	351.0	303.5	20.6
45°	397.8	386.5	381.5	365.9	347.5	310.6	275.1	236.1	206.4	178.0	12.8
47.5°	203.5	197.8	197.8	191.5	185.1	173.0	155.3	142.5	128.4	110.6	5.0
50°	61.0	60.3	59.6	60.3	58.1	60.3	61.7	62.4	56.7	56.0	1.4
52.5°	24.1	24.8	24.1	26.2	26.2	25.5	26.2	25.5	24.8	22.0	0.0
55°	7.1	7.1	7.1	7.1	7.1	7.1	7.8	8.5	7.8	8.5	0.0
57.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	0.0
60°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.0	0.7
62.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
65°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
67.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
70°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
72.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
75°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7



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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	0.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	24.1	24.1	24.1	24.1	24.1	24.1
2.5°	28.4	24.8	20.6	17.0	15.6	14.9
5°	30.5	22.7	15.6	12.1	10.6	9.9
7.5°	32.6	20.6	12.1	8.5	6.4	5.7
10°	34.0	17.7	9.2	5.0	3.5	3.5
12.5°	34.0	14.2	6.4	2.8	2.1	2.1
15°	33.3	12.1	4.3	2.1	1.4	1.4
17.5°	32.6	9.2	2.8	1.4	0.7	1.4
20°	30.5	7.1	1.4	0.7	0.7	0.7
21°	29.8	6.4	1.4	0.7	0.7	0.7
22°	28.4	5.7	0.7	0.0	0.7	0.7
23°	26.9	4.3	0.7	0.0	0.0	0.0
24°	24.8	3.5	0.7	0.0	0.0	0.0
25°	23.4	3.5	0.7	0.0	0.0	0.0
26°	22.0	2.1	0.0	0.0	0.0	0.0
27°	19.9	1.4	0.0	0.0	0.0	0.0
28°	18.4	1.4	0.0	0.0	0.0	0.0
29°	16.3	1.4	0.0	0.0	0.0	0.0
30°	14.2	1.4	0.0	0.0	0.0	0.0
31°	11.3	0.7	0.0	0.0	0.0	0.0
32°	9.2	0.7	0.0	0.0	0.0	0.0
33°	6.4	0.7	0.0	0.0	0.0	0.0
34°	4.3	0.7	0.0	0.0	0.0	0.0
35°	3.5	0.7	0.0	0.0	0.0	0.0
36°	2.1	0.7	0.0	0.0	0.0	0.7
37°	2.1	0.7	0.0	0.0	0.0	0.7
38°	1.4	0.7	0.0	0.0	0.0	0.7
39°	0.7	0.7	0.0	0.0	0.0	0.7
40°	0.7	0.7	0.0	0.0	0.0	0.7
42.5°	0.0	0.7	0.0	0.0	0.7	1.4
45°	0.0	0.7	0.0	0.0	0.7	1.4
47.5°	0.0	0.7	0.0	0.0	1.4	1.4
50°	0.0	0.7	0.7	0.7	1.4	2.1
52.5°	0.0	1.4	0.7	1.4	2.1	2.8
55°	0.7	1.4	1.4	2.1	2.8	3.5
57.5°	0.7	2.1	2.1	2.8	3.5	3.5
60°	1.4	2.1	2.8	2.8	4.3	4.3
62.5°	1.4	2.8	2.8	2.8	4.3	4.3
65°	1.4	2.8	2.8	3.5	4.3	4.3
67.5°	1.4	2.8	2.8	2.8	3.5	4.3
70°	1.4	2.8	2.1	2.8	3.5	3.5
72.5°	1.4	2.8	2.1	2.1	2.8	3.5
75°	1.4	2.8	2.1	2.1	2.8	2.8
77.5°	1.4	2.1	2.1	1.4	2.1	2.1
80°	1.4	2.1	1.4	1.4	2.1	2.1



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	1.4	2.1	1.4	0.7	1.4	1.4
85°	1.4	2.1	1.4	0.7	0.7	0.7
87.5°	1.4	2.1	0.7	0.0	0.0	0.7
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)