

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: P1340489

Luminaire Tested: P3A09R209740DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1340489
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: P3A09R209740DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R20 optic, 4000K CCT AND, 97CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

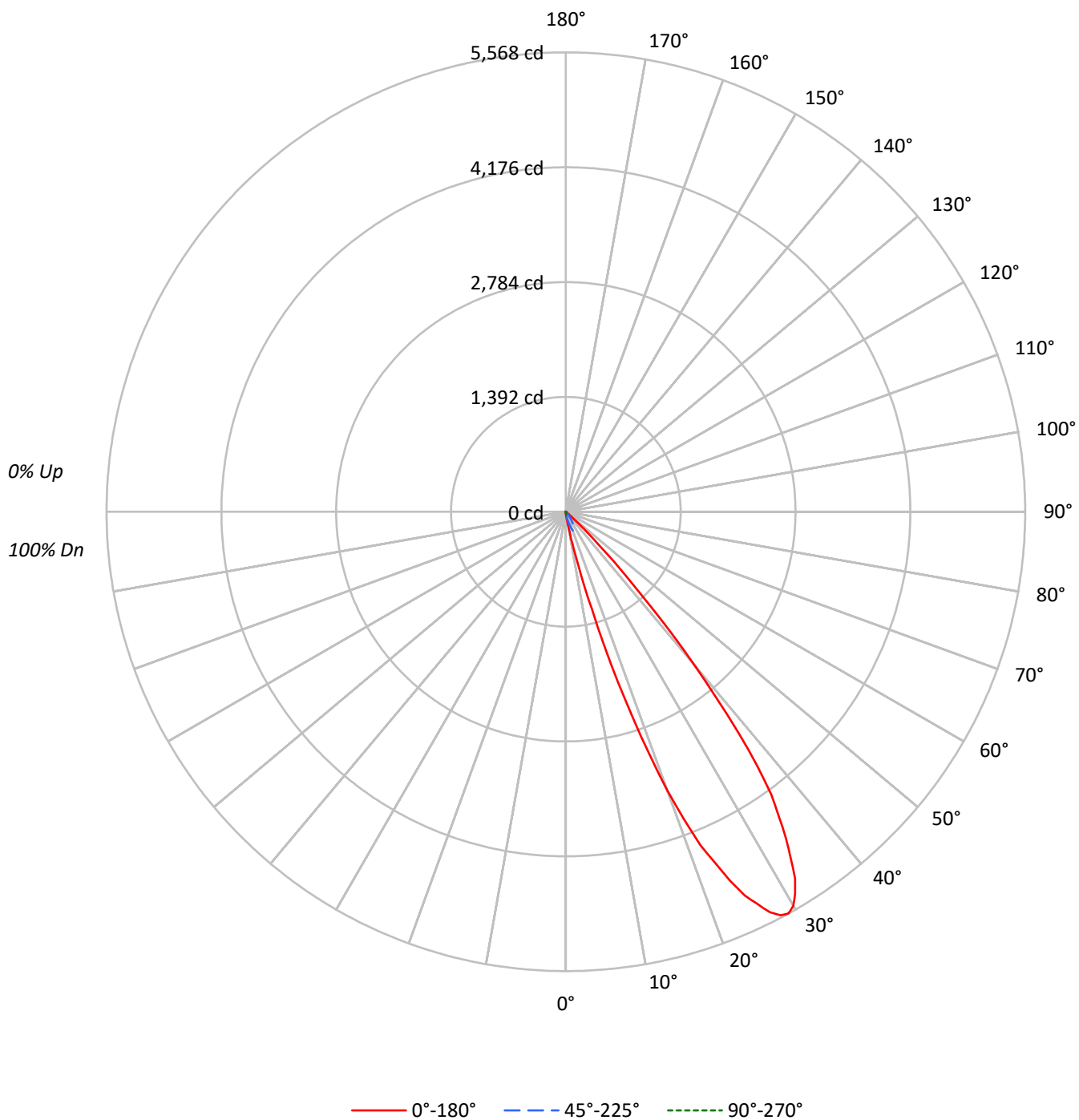
Lumens per Lamp: N/A
Luminaire Lumens: 780.9 lumens
Efficiency: N/A
Efficacy: 70.4 lumens/watt
Spacing Criteria (0/90/45): 2.3 / 0.54 / 1.19
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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°	5899	5899	5899	5899	5899
5°	13559	10147	5613	3434	2972
10°	42751	17679	4565	1893	1425
15°	276982	32645	3383	636	159
20°	835966	55888	2310	0	0
25°	1241515	56398	1379	0	0
30°	1396164	42867	532	0	0
35°	1204615	25618	375	0	0
40°	693642	8731	0	0	0
45°	169196	3504	217	0	217
50°	20298	955	239	239	716
55°	2714	0	535	535	1070
60°	307	0	921	921	1535
65°	363	363	1453	1453	2231
70°	449	449	1795	1795	2244
75°	0	593	2372	1779	2372
80°	0	884	2652	1768	2652
85°	0	1761	5284	1761	1761

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°

Vertical Angle: 45°

Luminance: 170281 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.6	0.5
10°-20°	72.4	9.3
20°-30°	315.5	40.4
30°-40°	317.7	40.7
40°-50°	63.7	8.2
50°-60°	3.2	0.4
60°-70°	2.1	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°	391.5	50.1
0°-40°	709.2	90.8
0°-60°	776.1	99.4
0°-90°	780.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	780.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	27	27	27	27	27	
5°	62	46	26	16	14	10
15°	1220	144	15	3	1	478
25°	5131	233	6	0	0	2314
35°	4500	96	1	0	0	2677
45°	546	11	1	0	1	594
55°	7	0	1	1	3	13
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°	26.9	26.9	26.9	26.9	26.9	26.9	26.9	26.9	26.9	26.9	26.9
2.5°	40.4	40.4	39.7	39.7	39.0	39.7	38.3	39.0	39.0	38.3	34.7
5°	61.6	63.1	62.4	62.4	61.6	62.4	60.9	59.5	58.1	58.1	46.1
7.5°	101.3	100.6	99.2	99.9	97.8	96.4	94.9	94.2	90.0	87.9	60.2
10°	192.0	196.3	192.7	192.0	179.3	178.6	170.1	158.0	147.4	141.7	79.4
12.5°	528.6	551.3	515.8	498.8	488.9	450.6	434.3	392.5	352.2	321.7	100.6
15°	1220.1	1276.1	1204.5	1209.5	1150.0	1040.9	945.2	863.0	765.9	668.2	143.8
17.5°	2390.7	2345.3	2306.3	2240.4	2119.3	1959.1	1753.0	1543.9	1363.3	1174.1	200.5
20°	3582.4	3542.1	3453.5	3309.6	3155.2	2917.8	2672.7	2358.8	2054.8	1770.0	239.5
21°	3992.7	3979.2	3834.0	3745.4	3507.3	3280.6	2997.9	2662.0	2319.8	1982.5	245.9
22°	4359.0	4278.2	4200.3	4069.2	3832.6	3586.0	3271.4	2917.8	2546.5	2171.7	246.6
23°	4612.7	4575.8	4502.1	4354.1	4118.8	3829.0	3497.4	3127.5	2736.4	2305.6	244.5
24°	4893.3	4846.5	4738.8	4565.9	4328.5	4042.3	3663.9	3296.9	2871.8	2418.3	238.8
25°	5131.3	5058.4	4930.8	4744.5	4485.1	4189.7	3809.2	3406.0	2966.0	2494.1	233.1
26°	5285.8	5246.1	5082.4	4879.8	4602.0	4297.4	3909.1	3489.6	3026.9	2528.8	223.9
27°	5446.6	5373.7	5212.8	4979.7	4678.6	4367.5	3965.8	3530.0	3048.2	2530.2	212.6
28°	5538.8	5459.4	5277.3	5032.1	4728.2	4406.5	3998.4	3542.8	3043.9	2508.3	199.1
29°	5567.8	5467.9	5290.0	5040.6	4740.2	4409.3	3993.4	3524.3	3006.4	2454.4	183.5
30°	5514.0	5411.9	5243.3	5000.3	4702.0	4373.9	3947.3	3463.4	2939.8	2377.2	169.3
31°	5396.3	5309.9	5146.9	4903.2	4616.9	4291.0	3843.2	3363.5	2826.4	2273.7	153.0
32°	5241.2	5156.1	4996.0	4775.6	4484.4	4155.7	3700.8	3207.6	2693.2	2119.3	136.8
33°	5008.0	4959.2	4815.3	4604.9	4313.7	3962.2	3509.5	3021.3	2503.3	1947.8	122.6
34°	4772.1	4710.5	4609.8	4379.6	4066.4	3715.6	3260.0	2764.1	2271.6	1755.8	109.1
35°	4500.0	4463.2	4305.2	4120.9	3806.3	3447.8	2995.0	2513.9	2001.7	1541.8	95.7
36°	4236.4	4179.7	3999.8	3804.9	3499.5	3112.0	2664.9	2212.8	1768.5	1341.3	81.5
37°	3853.8	3767.4	3639.1	3433.6	3076.5	2746.3	2338.2	1918.8	1481.6	1124.5	65.9
38°	3403.9	3363.5	3185.7	2978.8	2683.3	2370.1	1966.2	1610.5	1222.3	938.8	50.3
39°	2873.2	2872.5	2702.4	2552.9	2263.8	1981.8	1617.6	1307.3	1009.0	756.0	39.0
40°	2423.2	2339.6	2234.8	2047.0	1825.2	1585.7	1266.9	1023.1	783.0	609.4	30.5
42.5°	1270.4	1263.3	1201.7	1060.7	936.7	795.7	632.7	527.2	412.4	335.9	19.1
45°	545.6	549.1	506.6	485.4	437.2	378.4	319.6	266.4	228.2	184.9	11.3
47.5°	138.2	132.5	131.1	136.0	136.0	131.8	118.3	111.2	102.7	94.2	6.4
50°	59.5	58.1	56.7	56.7	53.1	51.0	47.5	43.2	39.7	35.4	2.8
52.5°	22.0	22.7	23.4	22.7	22.7	22.0	22.0	21.3	19.1	17.0	1.4
55°	7.1	7.1	7.1	7.8	7.8	8.5	8.5	8.5	8.5	7.8	0.0
57.5°	1.4	1.4	2.1	2.1	2.1	2.1	2.1	2.1	2.8	2.8	0.0
60°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.0	0.0	0.0	0.0
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	0.0	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
75°	0.0	0.0	0.0	0.7	0.0	0.7	0.7	0.0	0.7	0.7	0.7
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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°	26.9	26.9	26.9	26.9	26.9	26.9
2.5°	31.2	27.6	23.4	19.8	19.1	18.4
5°	34.7	25.5	19.1	15.6	14.2	13.5
7.5°	37.6	23.4	15.6	11.3	9.9	9.2
10°	39.0	20.5	12.8	8.5	6.4	6.4
12.5°	39.7	17.7	9.2	5.7	3.5	3.5
15°	39.0	14.9	7.1	2.8	0.7	0.7
17.5°	35.4	12.0	4.3	0.7	0.0	0.0
20°	30.5	9.9	2.8	0.0	0.0	0.0
21°	29.1	8.5	2.1	0.0	0.0	0.0
22°	26.9	7.8	1.4	0.0	0.0	0.0
23°	24.8	7.1	1.4	0.0	0.0	0.0
24°	22.7	6.4	0.7	0.0	0.0	0.0
25°	21.3	5.7	0.7	0.0	0.0	0.0
26°	19.8	5.0	0.7	0.0	0.0	0.0
27°	17.7	4.3	0.0	0.0	0.0	0.0
28°	16.3	3.5	0.0	0.0	0.0	0.0
29°	14.2	2.8	0.0	0.0	0.0	0.0
30°	12.0	2.1	0.0	0.0	0.0	0.0
31°	9.9	2.1	0.0	0.0	0.0	0.0
32°	8.5	1.4	0.0	0.0	0.0	0.0
33°	7.1	1.4	0.0	0.0	0.0	0.0
34°	6.4	1.4	0.0	0.0	0.0	0.0
35°	5.7	1.4	0.0	0.0	0.0	0.0
36°	4.3	0.7	0.0	0.0	0.0	0.0
37°	3.5	0.7	0.0	0.0	0.0	0.0
38°	2.8	0.7	0.0	0.0	0.0	0.0
39°	2.1	0.0	0.0	0.0	0.0	0.0
40°	2.1	0.0	0.0	0.0	0.0	0.0
42.5°	0.7	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.7	0.0	0.0	0.7	0.7
47.5°	0.0	0.7	0.0	0.0	0.7	1.4
50°	0.0	0.7	0.7	0.7	1.4	2.1
52.5°	0.0	1.4	0.7	0.7	2.1	2.1
55°	0.7	1.4	0.7	1.4	2.8	2.8
57.5°	0.7	1.4	1.4	2.1	2.8	3.5
60°	1.4	2.1	2.1	2.1	3.5	3.5
62.5°	1.4	2.1	2.8	2.8	3.5	4.3
65°	1.4	2.8	2.8	2.8	3.5	4.3
67.5°	2.1	2.8	2.8	2.8	3.5	4.3
70°	2.1	2.8	2.8	2.8	3.5	3.5
72.5°	2.1	2.8	2.1	2.8	2.8	3.5
75°	2.1	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	1.4	0.7	0.0	0.7
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)