

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: P1336507

Luminaire Tested: P3A05R159840DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1336507
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: P3A05R159840DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R15 optic, 4000K CCT AND, 98CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

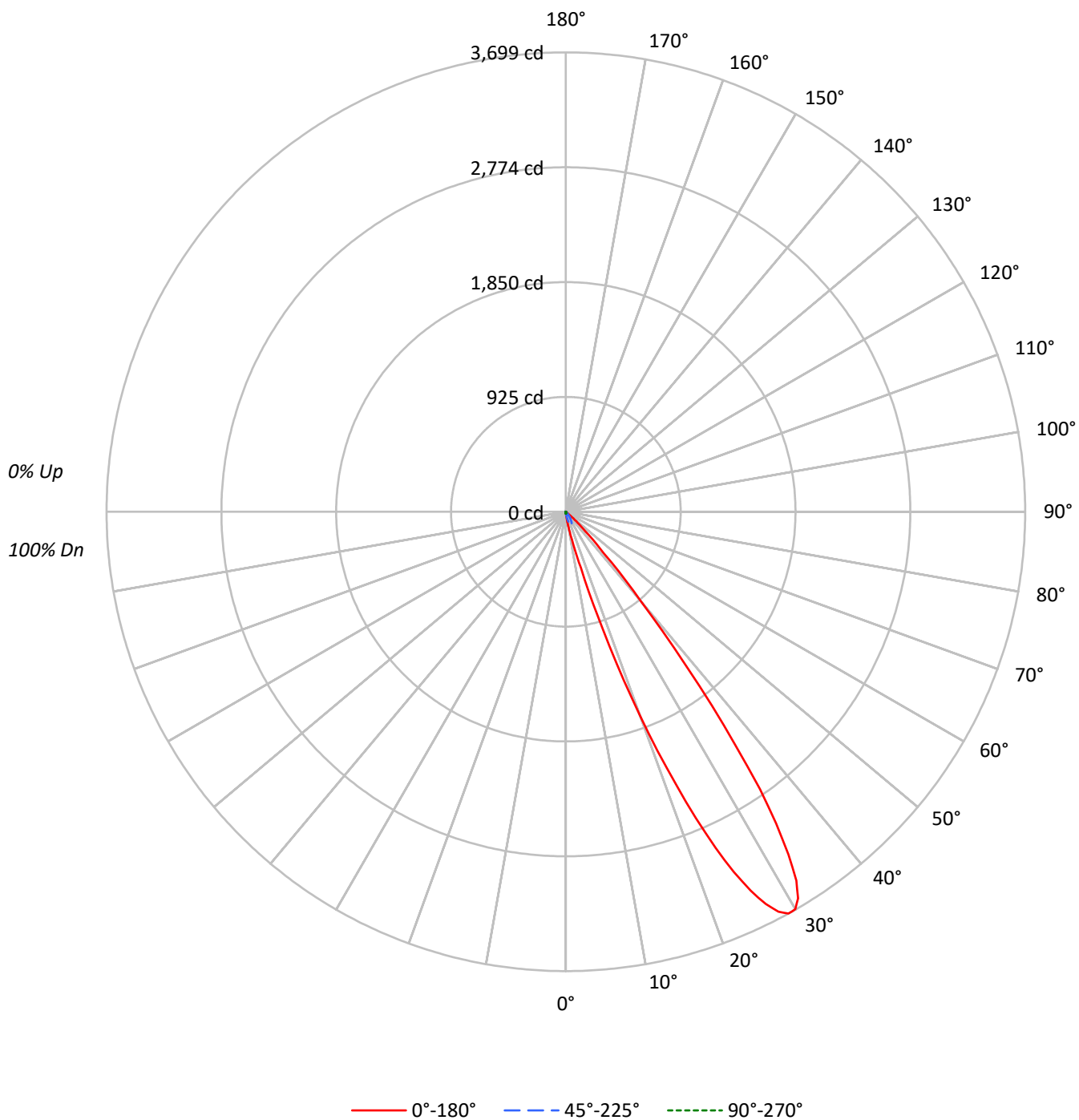
Lumens per Lamp: N/A
Luminaire Lumens: 404.1 lumens
Efficiency: N/A
Efficacy: 56.1 lumens/watt
Spacing Criteria (0/90/45): 2.35 / 0.49 / 1.26
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92		
2	106	100	96	92	104	98	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	47	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°	2938	2938	2938	2938	2938
5°	6317	4667	2773	1475	1211
10°	28011	8840	2182	623	445
15°	105903	20431	1521	272	182
20°	407272	28796	910	93	93
25°	774456	27002	484	0	0
30°	935562	21801	203	0	0
35°	729676	14830	107	0	0
40°	266270	7299	115	0	115
45°	68379	2202	124	0	248
50°	11531	273	136	136	409
55°	1491	0	306	459	765
60°	175	175	526	702	1053
65°	208	208	830	1038	1245
70°	256	256	1026	1026	1282
75°	339	339	1356	1017	1356
80°	0	505	1515	1010	1515
85°	0	1006	3019	1006	1006

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 68379 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.8	0.5
10°-20°	31.0	7.7
20°-30°	171.7	42.5
30°-40°	165.9	41.1
40°-50°	28.9	7.1
50°-60°	2.1	0.5
60°-70°	1.2	0.3
70°-80°	1.0	0.2
80°-90°	0.5	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°	204.5	50.6
0°-40°	370.4	91.7
0°-60°	401.3	99.3
0°-90°	404.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	404.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	13	13	13	13	13	
5°	29	21	13	7	6	6
15°	466	90	7	1	1	208
25°	3201	112	2	0	0	1431
35°	2726	55	0	0	0	1568
45°	220	7	0	0	1	237
55°	4	0	1	1	2	8
65°	0	0	2	2	2	0
75°	0	0	2	1	2	0
85°	0	0	1	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°	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4
2.5°	19.6	18.9	19.3	19.3	19.3	19.3	19.3	18.5	18.5	18.9	16.9
5°	28.7	28.7	28.3	28.7	28.7	28.3	27.5	27.1	27.1	26.3	21.2
7.5°	57.4	56.6	56.6	55.8	51.9	50.7	49.9	47.9	44.4	43.6	27.5
10°	125.8	126.1	123.4	119.9	119.5	113.6	111.6	108.1	101.4	94.7	39.7
12.5°	228.3	223.2	216.5	216.9	205.5	201.6	192.6	182.7	172.5	161.9	65.2
15°	466.5	451.9	460.6	439.4	415.4	388.3	360.8	326.2	296.7	265.3	90.0
17.5°	982.5	996.6	972.7	881.9	826.1	760.4	668.1	578.9	502.6	441.3	110.0
20°	1745.3	1766.1	1684.7	1605.8	1470.2	1322.4	1168.4	993.9	826.9	682.2	123.4
21°	2064.0	2051.4	2018.0	1891.5	1735.1	1563.7	1375.1	1182.5	980.1	792.3	124.6
22°	2372.1	2378.0	2300.2	2167.7	2005.0	1815.2	1584.9	1347.2	1129.1	881.9	122.6
23°	2679.0	2697.9	2594.9	2470.7	2266.0	2051.8	1785.4	1528.7	1259.1	984.4	118.7
24°	2963.1	2950.2	2880.6	2724.2	2505.3	2254.6	1977.9	1666.7	1366.0	1072.1	115.5
25°	3200.9	3199.3	3090.1	2938.0	2687.7	2409.8	2104.9	1779.5	1457.6	1131.4	111.6
26°	3395.4	3363.6	3277.5	3092.0	2844.9	2551.7	2209.0	1861.6	1509.1	1161.3	107.7
27°	3545.6	3522.8	3407.2	3214.3	2956.1	2631.9	2275.8	1902.5	1532.7	1171.1	102.6
28°	3646.6	3621.8	3498.8	3299.9	3017.4	2682.2	2311.2	1919.8	1532.7	1161.7	97.9
29°	3698.8	3665.0	3542.4	3329.4	3031.5	2688.1	2302.5	1902.9	1508.7	1132.6	92.4
30°	3694.9	3652.8	3524.3	3302.7	2989.5	2639.7	2254.2	1841.9	1454.5	1089.4	86.1
31°	3631.2	3584.1	3440.6	3212.3	2902.6	2548.5	2163.0	1760.2	1380.2	1033.2	79.8
32°	3501.9	3442.2	3302.3	3074.8	2769.0	2412.2	2030.6	1634.1	1269.0	951.0	73.1
33°	3291.3	3231.2	3081.0	2867.7	2588.2	2239.3	1854.9	1498.5	1142.4	853.2	67.6
34°	3027.6	2972.6	2843.3	2628.3	2360.3	2020.4	1652.9	1311.0	1011.2	756.1	61.7
35°	2725.8	2638.1	2521.0	2350.9	2089.5	1747.6	1434.8	1136.5	876.0	654.3	55.4
36°	2317.5	2333.2	2209.0	2000.7	1784.2	1516.2	1215.9	947.5	732.5	557.7	49.9
37°	1955.5	1930.8	1851.8	1690.6	1502.0	1236.0	1019.0	803.3	616.2	471.6	44.0
38°	1577.5	1583.0	1505.5	1381.8	1194.7	1016.3	820.2	659.8	515.6	401.2	38.5
39°	1234.8	1230.5	1209.6	1094.9	925.5	808.4	664.5	547.0	429.5	338.4	32.6
40°	930.2	937.3	888.6	819.4	720.7	624.5	529.4	436.2	355.3	285.3	25.5
42.5°	452.3	463.3	431.1	413.4	369.8	332.1	280.2	228.7	194.5	168.2	11.4
45°	220.5	214.2	211.4	202.8	192.6	172.1	152.5	130.9	114.4	98.6	7.1
47.5°	112.8	109.6	109.6	106.1	102.6	95.9	86.1	79.0	71.1	61.3	2.8
50°	33.8	33.4	33.0	33.4	32.2	33.4	34.2	34.6	31.4	31.0	0.8
52.5°	13.4	13.8	13.4	14.5	14.5	14.1	14.5	14.1	13.8	12.2	0.0
55°	3.9	3.9	3.9	3.9	3.9	3.9	4.3	4.7	4.3	4.7	0.0
57.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.0
60°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.0	0.4
62.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
65°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
67.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
70°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
72.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
75°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4



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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	0.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
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°	13.4	13.4	13.4	13.4	13.4	13.4
2.5°	15.7	13.8	11.4	9.4	8.6	8.3
5°	16.9	12.6	8.6	6.7	5.9	5.5
7.5°	18.1	11.4	6.7	4.7	3.5	3.1
10°	18.9	9.8	5.1	2.8	2.0	2.0
12.5°	18.9	7.9	3.5	1.6	1.2	1.2
15°	18.5	6.7	2.4	1.2	0.8	0.8
17.5°	18.1	5.1	1.6	0.8	0.4	0.8
20°	16.9	3.9	0.8	0.4	0.4	0.4
21°	16.5	3.5	0.8	0.4	0.4	0.4
22°	15.7	3.1	0.4	0.0	0.4	0.4
23°	14.9	2.4	0.4	0.0	0.0	0.0
24°	13.8	2.0	0.4	0.0	0.0	0.0
25°	13.0	2.0	0.4	0.0	0.0	0.0
26°	12.2	1.2	0.0	0.0	0.0	0.0
27°	11.0	0.8	0.0	0.0	0.0	0.0
28°	10.2	0.8	0.0	0.0	0.0	0.0
29°	9.0	0.8	0.0	0.0	0.0	0.0
30°	7.9	0.8	0.0	0.0	0.0	0.0
31°	6.3	0.4	0.0	0.0	0.0	0.0
32°	5.1	0.4	0.0	0.0	0.0	0.0
33°	3.5	0.4	0.0	0.0	0.0	0.0
34°	2.4	0.4	0.0	0.0	0.0	0.0
35°	2.0	0.4	0.0	0.0	0.0	0.0
36°	1.2	0.4	0.0	0.0	0.0	0.4
37°	1.2	0.4	0.0	0.0	0.0	0.4
38°	0.8	0.4	0.0	0.0	0.0	0.4
39°	0.4	0.4	0.0	0.0	0.0	0.4
40°	0.4	0.4	0.0	0.0	0.0	0.4
42.5°	0.0	0.4	0.0	0.0	0.4	0.8
45°	0.0	0.4	0.0	0.0	0.4	0.8
47.5°	0.0	0.4	0.0	0.0	0.8	0.8
50°	0.0	0.4	0.4	0.4	0.8	1.2
52.5°	0.0	0.8	0.4	0.8	1.2	1.6
55°	0.4	0.8	0.8	1.2	1.6	2.0
57.5°	0.4	1.2	1.2	1.6	2.0	2.0
60°	0.8	1.2	1.6	1.6	2.4	2.4
62.5°	0.8	1.6	1.6	1.6	2.4	2.4
65°	0.8	1.6	1.6	2.0	2.4	2.4
67.5°	0.8	1.6	1.6	1.6	2.0	2.4
70°	0.8	1.6	1.2	1.6	2.0	2.0
72.5°	0.8	1.6	1.2	1.2	1.6	2.0
75°	0.8	1.6	1.2	1.2	1.6	1.6
77.5°	0.8	1.2	1.2	0.8	1.2	1.2
80°	0.8	1.2	0.8	0.8	1.2	1.2



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.8	1.2	0.8	0.4	0.8	0.8
85°	0.8	1.2	0.8	0.4	0.4	0.4
87.5°	0.8	1.2	0.4	0.0	0.0	0.4
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)