

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: P1336411

Luminaire Tested: P3A05R159730DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1336411
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: P3A05R159730DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R15 optic, 3000K CCT AND, 97CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

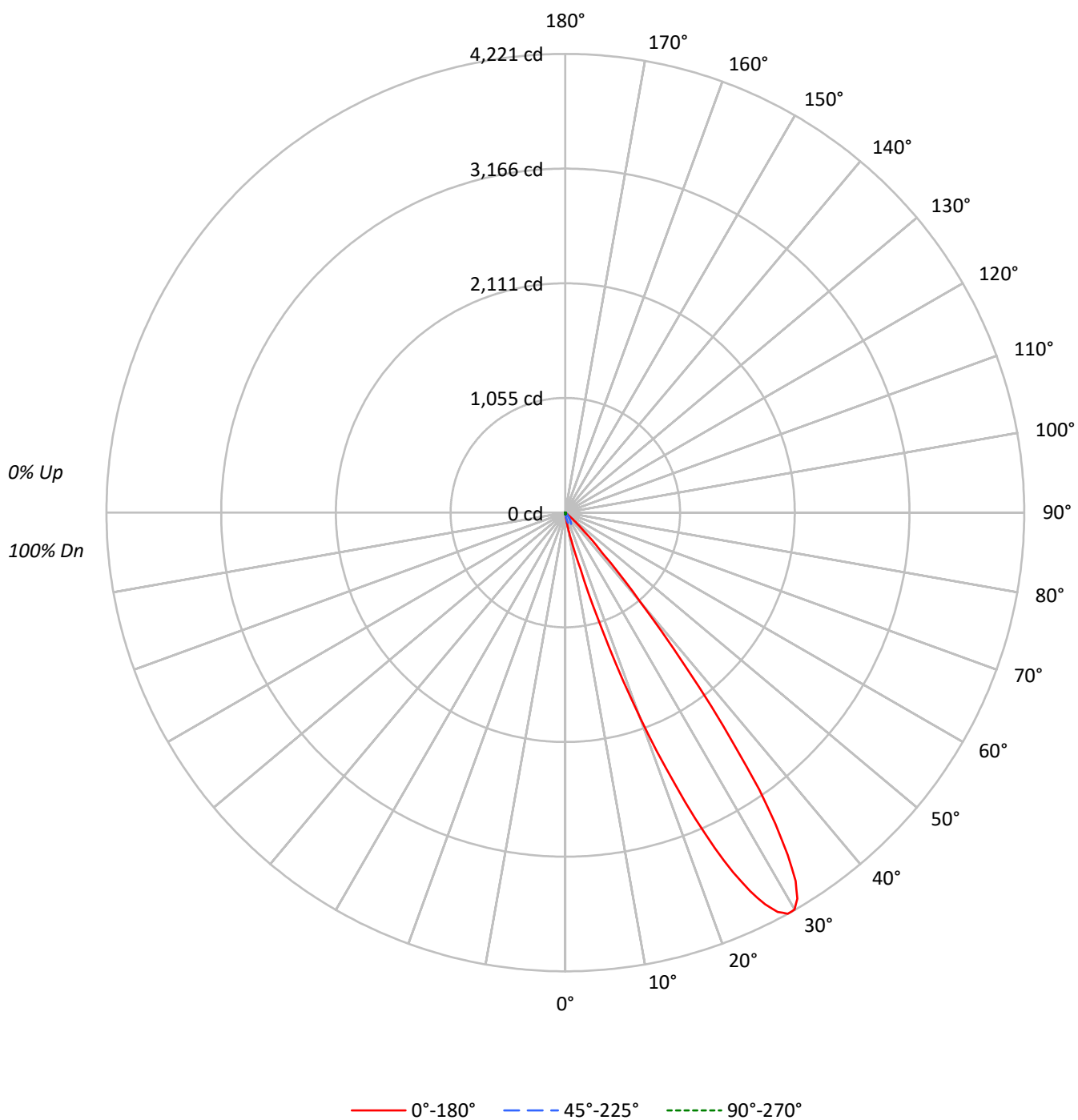
Lumens per Lamp: N/A
Luminaire Lumens: 460.9 lumens
Efficiency: N/A
Efficacy: 64.0 lumens/watt
Spacing Criteria (0/90/45): 2.35 / 0.49 / 1.26
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	3333	3333	3333	3333	3333
5°	7198	5327	3148	1673	1387
10°	31952	10087	2494	690	490
15°	120841	23315	1725	295	204
20°	464724	32856	1050	93	93
25°	883720	30824	532	0	0
30°	1067557	24865	228	0	0
35°	832630	16918	107	0	0
40°	303855	8330	115	0	115
45°	78024	2512	124	0	279
50°	13168	307	136	136	443
55°	1720	0	344	497	841
60°	175	175	570	789	1184
65°	208	208	934	1141	1401
70°	256	256	1154	1154	1410
75°	339	339	1525	1101	1525
80°	0	505	1642	1137	1642
85°	0	1006	3271	1006	1006

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 78024 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.1	0.5
10°-20°	35.3	7.7
20°-30°	195.9	42.5
30°-40°	189.3	41.1
40°-50°	32.9	7.1
50°-60°	2.3	0.5
60°-70°	1.4	0.3
70°-80°	1.1	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°	233.3	50.6
0°-40°	422.6	91.7
0°-60°	457.9	99.3
0°-90°	460.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	460.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	15	15	15	15	15	
5°	33	24	14	8	6	6
15°	532	103	8	1	1	237
25°	3652	127	2	0	0	1633
35°	3110	63	0	0	0	1789
45°	252	8	0	0	1	270
55°	4	0	1	1	2	9
65°	0	0	2	2	3	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°	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2
2.5°	22.4	21.5	22.0	22.0	22.0	22.0	22.0	21.1	21.1	21.5	19.3
5°	32.7	32.7	32.3	32.7	32.7	32.3	31.4	30.9	30.9	30.0	24.2
7.5°	65.5	64.6	64.6	63.7	59.2	57.8	57.0	54.7	50.7	49.8	31.4
10°	143.5	143.9	140.8	136.8	136.3	129.6	127.4	123.3	115.7	108.1	45.3
12.5°	260.5	254.7	247.1	247.5	234.5	230.0	219.7	208.5	196.9	184.8	74.4
15°	532.3	515.7	525.6	501.4	474.0	443.1	411.7	372.2	338.6	302.7	102.7
17.5°	1121.1	1137.2	1109.9	1006.3	942.6	867.7	762.3	660.5	573.6	503.6	125.6
20°	1991.5	2015.3	1922.4	1832.3	1677.6	1509.0	1333.2	1134.1	943.5	778.5	140.8
21°	2355.2	2340.8	2302.7	2158.3	1979.8	1784.3	1569.1	1349.3	1118.4	904.0	142.2
22°	2706.8	2713.5	2624.7	2473.6	2287.9	2071.3	1808.5	1537.2	1288.4	1006.3	139.9
23°	3057.0	3078.5	2961.0	2819.3	2585.7	2341.3	2037.2	1744.4	1436.8	1123.3	135.4
24°	3381.2	3366.4	3287.0	3108.6	2858.8	2572.7	2257.0	1901.8	1558.8	1223.3	131.8
25°	3652.5	3650.7	3526.1	3352.5	3066.9	2749.8	2401.8	2030.5	1663.3	1291.1	127.4
26°	3874.5	3838.2	3740.0	3528.3	3246.2	2911.7	2520.7	2124.2	1722.0	1325.1	122.9
27°	4045.8	4019.8	3887.9	3667.8	3373.1	3003.2	2596.9	2170.9	1748.9	1336.3	117.0
28°	4161.0	4132.8	3992.4	3765.5	3443.1	3060.6	2637.3	2190.6	1748.9	1325.6	111.7
29°	4220.7	4182.1	4042.2	3799.2	3459.2	3067.3	2627.4	2171.3	1721.6	1292.4	105.4
30°	4216.2	4168.2	4021.6	3768.7	3411.3	3012.2	2572.2	2101.8	1659.7	1243.1	98.2
31°	4143.6	4089.7	3926.1	3665.5	3312.2	2908.1	2468.2	2008.5	1574.9	1178.9	91.0
32°	3996.0	3927.9	3768.2	3508.6	3159.7	2752.5	2317.1	1864.6	1448.0	1085.2	83.4
33°	3755.7	3687.0	3515.7	3272.2	2953.4	2555.2	2116.6	1709.9	1303.6	973.6	77.1
34°	3454.8	3392.0	3244.4	2999.1	2693.3	2305.4	1886.1	1496.0	1153.8	862.8	70.4
35°	3110.4	3010.4	2876.7	2682.6	2384.3	1994.2	1637.2	1296.9	999.6	746.6	63.2
36°	2644.4	2662.4	2520.7	2283.0	2035.9	1730.1	1387.5	1081.2	835.9	636.3	57.0
37°	2231.4	2203.2	2113.0	1929.2	1713.9	1410.3	1162.8	916.6	703.1	538.1	50.2
38°	1800.0	1806.3	1718.0	1576.7	1363.2	1159.7	935.9	752.9	588.3	457.9	43.9
39°	1409.0	1404.1	1380.3	1249.3	1056.1	922.4	758.3	624.2	490.1	386.1	37.2
40°	1061.5	1069.5	1013.9	935.0	822.4	712.6	604.0	497.8	405.4	325.6	29.1
42.5°	516.2	528.7	491.9	471.8	422.0	378.9	319.7	261.0	222.0	191.9	13.0
45°	251.6	244.4	241.3	231.4	219.7	196.4	174.0	149.3	130.5	112.6	8.1
47.5°	128.7	125.1	125.1	121.1	117.0	109.4	98.2	90.1	81.2	70.0	3.1
50°	38.6	38.1	37.7	38.1	36.8	38.1	39.0	39.5	35.9	35.4	0.9
52.5°	15.2	15.7	15.2	16.6	16.6	16.1	16.6	16.1	15.7	13.9	0.0
55°	4.5	4.5	4.5	4.5	4.5	4.5	4.9	5.4	4.9	5.4	0.0
57.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	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°	15.2	15.2	15.2	15.2	15.2	15.2
2.5°	17.9	15.7	13.0	10.8	9.9	9.4
5°	19.3	14.3	9.9	7.6	6.7	6.3
7.5°	20.6	13.0	7.6	5.4	4.0	3.6
10°	21.5	11.2	5.8	3.1	2.2	2.2
12.5°	21.5	9.0	4.0	1.8	1.3	1.3
15°	21.1	7.6	2.7	1.3	0.9	0.9
17.5°	20.6	5.8	1.8	0.9	0.4	0.9
20°	19.3	4.5	0.9	0.4	0.4	0.4
21°	18.8	4.0	0.9	0.4	0.4	0.4
22°	17.9	3.6	0.4	0.0	0.4	0.4
23°	17.0	2.7	0.4	0.0	0.0	0.0
24°	15.7	2.2	0.4	0.0	0.0	0.0
25°	14.8	2.2	0.4	0.0	0.0	0.0
26°	13.9	1.3	0.0	0.0	0.0	0.0
27°	12.6	0.9	0.0	0.0	0.0	0.0
28°	11.7	0.9	0.0	0.0	0.0	0.0
29°	10.3	0.9	0.0	0.0	0.0	0.0
30°	9.0	0.9	0.0	0.0	0.0	0.0
31°	7.2	0.4	0.0	0.0	0.0	0.0
32°	5.8	0.4	0.0	0.0	0.0	0.0
33°	4.0	0.4	0.0	0.0	0.0	0.0
34°	2.7	0.4	0.0	0.0	0.0	0.0
35°	2.2	0.4	0.0	0.0	0.0	0.0
36°	1.3	0.4	0.0	0.0	0.0	0.4
37°	1.3	0.4	0.0	0.0	0.0	0.4
38°	0.9	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	0.9
45°	0.0	0.4	0.0	0.0	0.4	0.9
47.5°	0.0	0.4	0.0	0.0	0.9	0.9
50°	0.0	0.4	0.4	0.4	0.9	1.3
52.5°	0.0	0.9	0.4	0.9	1.3	1.8
55°	0.4	0.9	0.9	1.3	1.8	2.2
57.5°	0.4	1.3	1.3	1.8	2.2	2.2
60°	0.9	1.3	1.8	1.8	2.7	2.7
62.5°	0.9	1.8	1.8	1.8	2.7	2.7
65°	0.9	1.8	1.8	2.2	2.7	2.7
67.5°	0.9	1.8	1.8	1.8	2.2	2.7
70°	0.9	1.8	1.3	1.8	2.2	2.2
72.5°	0.9	1.8	1.3	1.3	1.8	2.2
75°	0.9	1.8	1.3	1.3	1.8	1.8
77.5°	0.9	1.3	1.3	0.9	1.3	1.3
80°	0.9	1.3	0.9	0.9	1.3	1.3



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.9	1.3	0.9	0.4	0.9	0.9
85°	0.9	1.3	0.9	0.4	0.4	0.4
87.5°	0.9	1.3	0.4	0.0	0.0	0.4
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)