

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: P1337507

Luminaire Tested: P3A05R259840DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1337507
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-61)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A05R259840DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R25 optic, 4000K CCT AND, 98CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

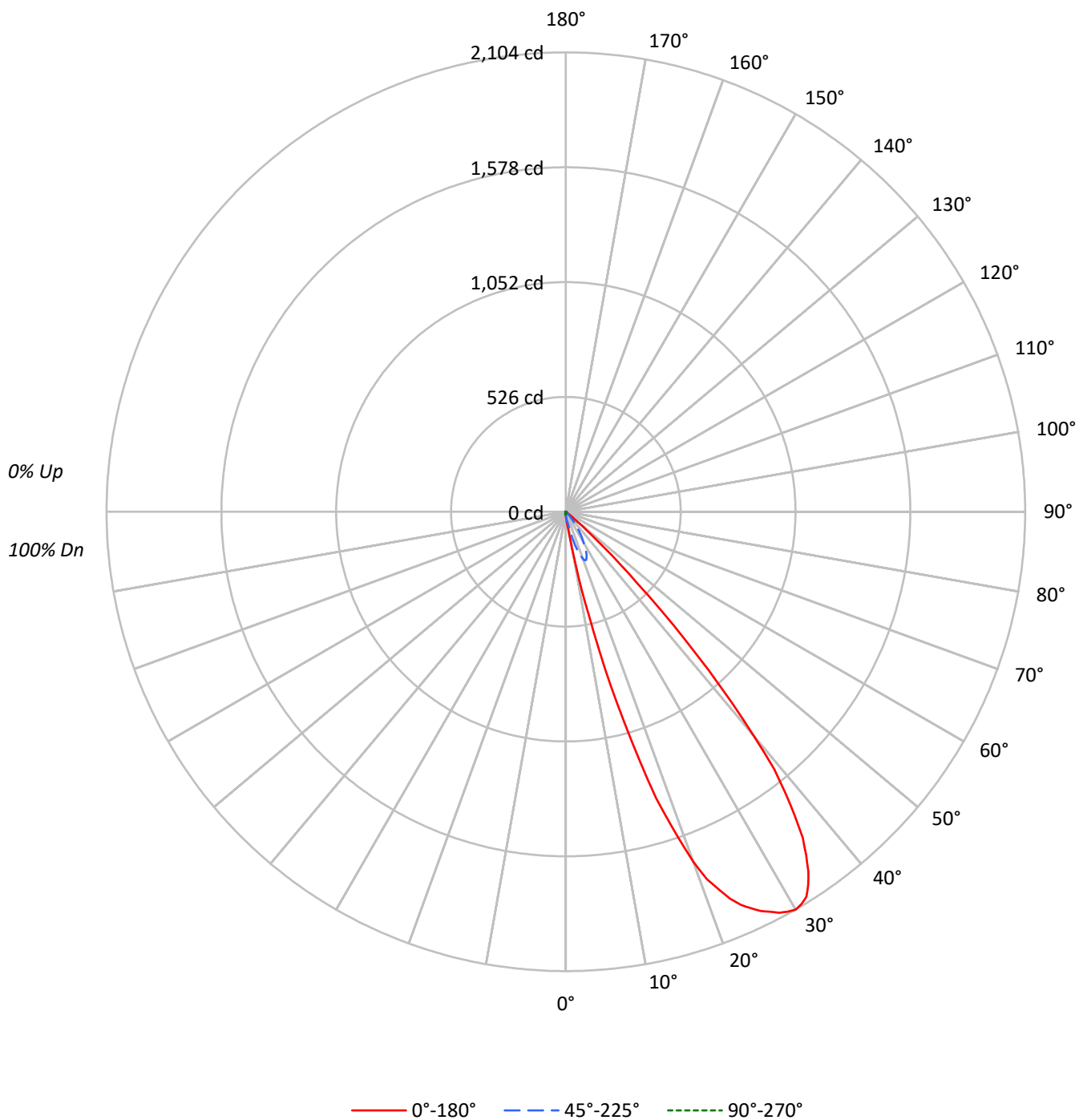
Lumens per Lamp: N/A
Luminaire Lumens: 421.1 lumens
Efficiency: N/A
Efficacy: 58.5 lumens/watt
Spacing Criteria (0/90/45): 2.36 / 0.51 / 1.27
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	113	109	107	104	110	107	105	102	103	101	99		99	98	96		96
2	106	100	95	92	103	98	94	90	95	92	88		92	89	87		89
3	99	92	86	81	97	90	85	81	88	83	79		85	81	78		83
4	93	84	77	72	91	83	77	72	80	75	71		78	74	70		76
5	87	77	70	65	85	76	69	65	74	68	64		72	67	63		71
6	81	71	63	58	79	70	63	58	68	62	58		67	61	57		65
7	76	65	58	53	74	64	57	52	63	57	52		61	56	52		60
8	71	60	52	48	69	59	52	47	58	52	47		57	51	47		56
9	66	55	48	43	65	54	48	43	53	47	43		52	47	43		51
10	62	51	44	39	61	50	44	39	49	43	39		48	43	39		48

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	3969	3969	3969	3969	3969
5°	9949	7352	3720	1893	1475
10°	43464	12514	3050	868	601
15°	206698	33712	2134	363	272
20°	397891	53998	1377	93	93
25°	484601	54463	750	0	0
30°	532791	41677	304	0	0
35°	513434	26502	107	0	0
40°	383633	11479	0	0	115
45°	142030	3039	124	124	372
50°	16750	409	273	273	546
55°	1644	0	306	459	765
60°	175	0	526	702	877
65°	208	208	830	1038	1245
70°	256	256	1026	1026	1539
75°	339	339	1017	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: 142030 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.6	0.6
10°-20°	49.1	11.7
20°-30°	154.1	36.6
30°-40°	162.2	38.5
40°-50°	47.6	11.3
50°-60°	2.6	0.6
60°-70°	1.3	0.3
70°-80°	1.1	0.3
80°-90°	0.6	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°	205.8	48.9
0°-40°	367.9	87.4
0°-60°	418.2	99.3
0°-90°	421.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	421.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	18	18	18	18	18	
5°	45	33	17	9	7	8
15°	910	148	9	2	1	287
25°	2003	225	3	0	0	919
35°	1918	99	0	0	0	1157
45°	458	10	0	0	1	416
55°	4	0	1	1	2	11
65°	0	0	2	2	2	0
75°	0	0	1	1	2	0
85°	0	0	1	0	0	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
0°	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1
2.5°	27.9	28.3	27.1	27.9	27.1	26.7	26.3	24.4	21.2	18.1	14.9
5°	45.2	45.2	43.2	42.8	42.0	40.5	38.9	33.4	24.0	16.9	11.8
7.5°	70.7	70.3	69.5	67.6	63.6	59.7	55.8	43.6	26.3	15.7	9.0
10°	195.2	192.5	188.9	167.7	143.8	122.6	104.1	56.2	28.3	13.7	6.7
12.5°	485.1	469.4	432.1	389.7	335.4	278.5	222.7	91.5	29.1	11.4	4.7
15°	910.5	877.9	819.8	734.9	624.2	499.6	393.6	148.5	28.3	9.4	3.5
17.5°	1374.8	1343.4	1262.8	1134.0	971.0	779.7	591.9	196.8	26.3	7.9	2.4
20°	1705.1	1671.7	1596.3	1459.6	1283.3	1028.3	779.3	231.4	24.7	5.9	1.2
21°	1801.8	1768.4	1688.6	1556.7	1371.3	1115.5	839.4	237.3	23.6	5.1	0.8
22°	1863.0	1843.4	1757.8	1629.7	1440.8	1185.5	890.9	240.0	22.8	4.7	0.8
23°	1924.7	1895.3	1815.1	1680.0	1493.8	1237.3	929.0	238.0	22.0	3.9	0.4
24°	1970.3	1945.5	1852.4	1718.9	1530.7	1269.1	951.4	232.9	20.8	3.5	0.4
25°	2002.9	1980.1	1883.1	1745.2	1555.5	1286.4	958.4	225.1	19.6	3.1	0.4
26°	2033.9	2009.2	1908.6	1760.5	1568.4	1291.9	951.8	216.4	18.5	2.7	0.0
27°	2056.3	2031.2	1926.3	1769.6	1569.2	1285.2	933.7	204.6	17.3	2.4	0.0
28°	2080.3	2051.2	1938.5	1774.7	1564.5	1269.5	907.8	192.1	16.5	2.0	0.0
29°	2094.8	2067.3	1951.0	1780.2	1554.7	1243.2	870.0	177.2	14.5	1.2	0.0
30°	2104.2	2071.6	1949.9	1774.3	1541.7	1214.9	824.9	164.6	12.6	1.2	0.0
31°	2096.4	2062.2	1937.3	1757.8	1520.9	1178.0	778.5	148.9	10.2	0.8	0.0
32°	2079.5	2039.0	1915.3	1729.1	1483.6	1130.5	730.6	135.9	7.5	0.8	0.0
33°	2038.2	2004.1	1875.6	1690.6	1434.9	1066.1	668.1	123.3	5.1	0.4	0.0
34°	1986.4	1952.2	1821.4	1639.1	1369.7	982.8	592.3	110.4	4.3	0.4	0.0
35°	1918.0	1884.3	1760.1	1567.3	1283.3	882.6	514.2	99.0	3.5	0.4	0.0
36°	1846.2	1801.4	1682.7	1490.7	1167.4	768.7	430.5	86.0	2.7	0.4	0.0
37°	1740.5	1710.2	1578.7	1374.0	1042.1	659.5	369.6	74.2	2.0	0.4	0.0
38°	1630.9	1603.0	1474.6	1256.6	902.3	551.5	309.5	62.8	1.6	0.0	0.0
39°	1517.8	1471.4	1344.5	1106.1	755.7	461.9	260.4	52.6	0.8	0.0	0.0
40°	1340.2	1304.9	1169.4	925.4	625.3	374.3	221.9	40.1	0.8	0.0	0.0
42.5°	888.5	855.5	713.3	502.0	332.3	218.8	146.5	15.7	0.0	0.4	0.0
45°	458.0	437.2	355.1	262.8	188.5	134.3	94.3	9.8	0.0	0.4	0.4
47.5°	181.9	178.3	161.0	139.1	107.2	79.7	51.5	4.3	0.0	0.4	0.4
50°	49.1	49.5	46.4	42.8	38.9	36.5	21.6	1.2	0.0	0.8	0.4
52.5°	20.8	21.2	20.4	19.2	17.3	13.0	8.6	0.4	0.4	0.8	0.8
55°	4.3	4.7	5.1	5.5	6.3	5.5	3.5	0.0	0.4	0.8	0.8
57.5°	0.8	0.8	0.8	0.8	1.2	1.2	0.8	0.0	0.4	0.8	1.2
60°	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.8	1.2	1.2
62.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8	1.2	1.6
65°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8	1.6	1.6
67.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	1.2	1.6	1.6
70°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	1.2	1.6	1.6
72.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	1.2	1.6	1.2
75°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	1.2	1.2	1.2
77.5°	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.8	1.2	1.2
80°	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.8	1.2	0.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.8	1.2	0.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.8	1.2	0.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.8	1.2	0.8
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):

	135°	157.5°	180°
0°	18.1	18.1	18.1
2.5°	12.6	11.4	11.0
5°	8.6	7.5	6.7
7.5°	5.9	4.7	4.3
10°	3.9	3.1	2.7
12.5°	2.7	1.6	1.6
15°	1.6	1.2	1.2
17.5°	0.8	0.4	0.4
20°	0.4	0.4	0.4
21°	0.0	0.0	0.0
22°	0.0	0.0	0.0
23°	0.0	0.0	0.0
24°	0.0	0.0	0.0
25°	0.0	0.0	0.0
26°	0.0	0.0	0.0
27°	0.0	0.0	0.0
28°	0.0	0.0	0.0
29°	0.0	0.0	0.0
30°	0.0	0.0	0.0
31°	0.0	0.0	0.0
32°	0.0	0.0	0.0
33°	0.0	0.0	0.0
34°	0.0	0.0	0.0
35°	0.0	0.0	0.0
36°	0.0	0.0	0.0
37°	0.0	0.0	0.0
38°	0.0	0.0	0.4
39°	0.0	0.4	0.4
40°	0.0	0.4	0.4
42.5°	0.0	0.4	0.8
45°	0.4	0.8	1.2
47.5°	0.8	1.2	1.6
50°	0.8	1.6	1.6
52.5°	1.2	1.6	2.0
55°	1.2	2.0	2.0
57.5°	1.6	2.0	2.4
60°	1.6	2.0	2.0
62.5°	1.6	2.4	2.4
65°	2.0	2.4	2.4
67.5°	2.0	2.4	2.4
70°	1.6	2.0	2.4
72.5°	1.6	2.0	2.0
75°	1.2	1.6	1.6
77.5°	1.2	1.2	1.6
80°	0.8	1.2	1.2



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CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
82.5°	0.8	0.8	0.8
85°	0.4	0.4	0.4
87.5°	0.4	0.4	0.4
90°	0.0	0.0	0.0

(END OF REPORT)