

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: P1337307

Luminaire Tested: P3A05R259027DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1337307
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: P3A05R259027DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R25 optic, 2700K CCT AND, 90CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

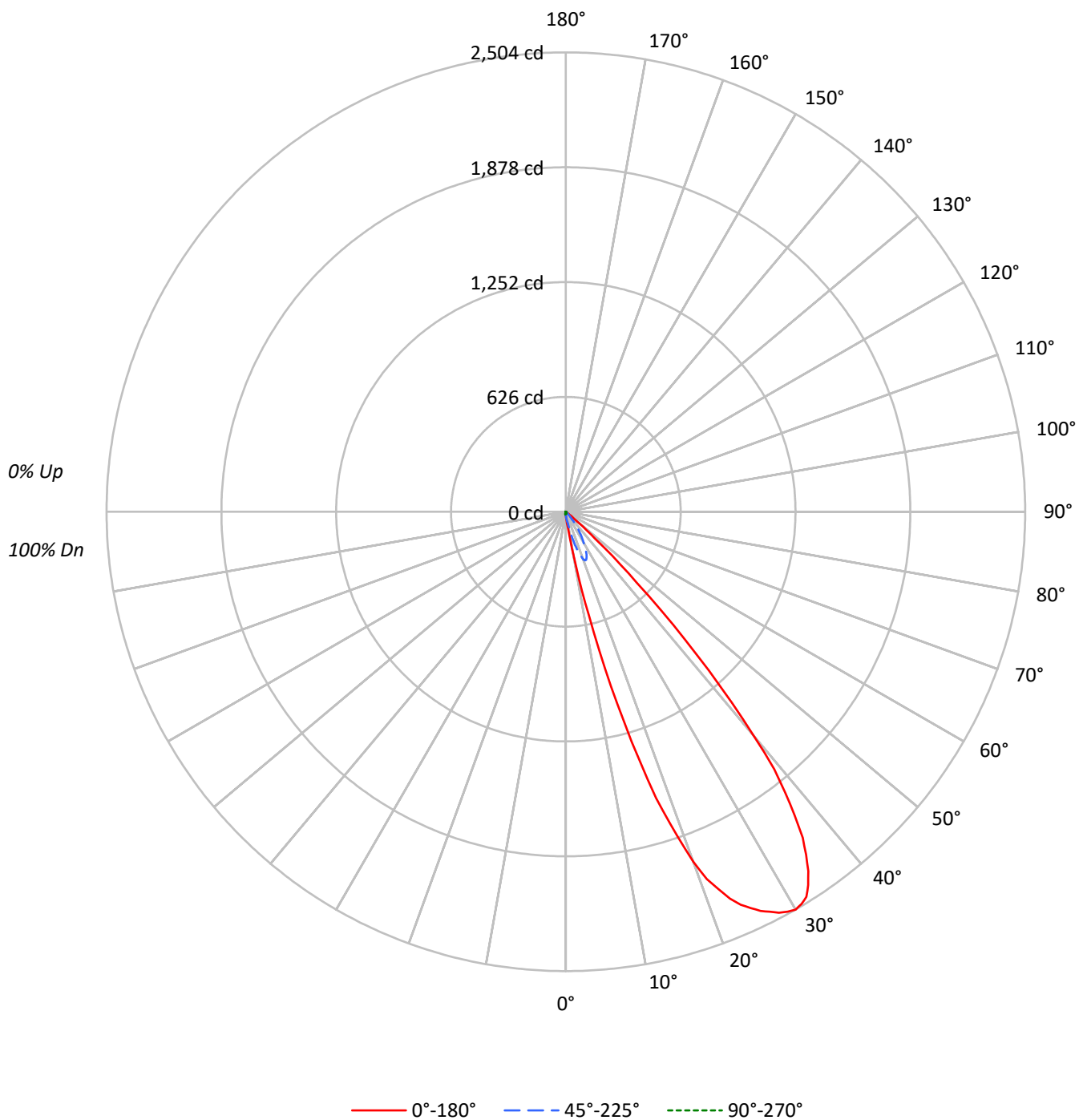
Lumens per Lamp: N/A
Luminaire Lumens: 501.0 lumens
Efficiency: N/A
Efficacy: 69.6 lumens/watt
Spacing Criteria (0/90/45): 2.36 / 0.51 / 1.27
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	70	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°	4715	4715	4715	4715	4715
5°	11842	8739	4424	2267	1739
10°	51725	14874	3652	1047	735
15°	245972	40114	2543	431	318
20°	473521	64242	1633	117	117
25°	576687	64794	895	0	0
30°	634047	49603	354	0	0
35°	611008	31534	134	0	0
40°	456541	13654	0	0	143
45°	169010	3628	155	155	434
50°	19923	478	307	307	648
55°	1950	0	344	535	879
60°	219	0	614	833	1009
65°	259	259	986	1193	1453
70°	321	321	1218	1218	1795
75°	424	424	1186	1186	1610
80°	0	631	1768	1137	1768
85°	0	1258	3522	1258	1258

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 169010 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.1	0.6
10°-20°	58.4	11.7
20°-30°	183.3	36.6
30°-40°	193.0	38.5
40°-50°	56.7	11.3
50°-60°	3.0	0.6
60°-70°	1.5	0.3
70°-80°	1.3	0.3
80°-90°	0.7	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°	244.9	48.9
0°-40°	437.9	87.4
0°-60°	497.6	99.3
0°-90°	501.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	501.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	22	22	22	22	22	
5°	54	40	20	10	8	10
15°	1084	177	11	2	1	342
25°	2384	268	4	0	0	1093
35°	2282	118	0	0	0	1377
45°	545	12	0	0	1	495
55°	5	0	1	1	2	13
65°	0	0	2	2	3	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°	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5
2.5°	33.2	33.7	32.3	33.2	32.3	31.8	31.3	29.0	25.2	21.5	17.8
5°	53.8	53.8	51.4	51.0	50.0	48.1	46.3	39.7	28.5	20.1	14.0
7.5°	84.1	83.7	82.7	80.4	75.7	71.1	66.4	51.9	31.3	18.7	10.8
10°	232.3	229.0	224.8	199.6	171.1	145.8	123.9	66.8	33.7	16.4	7.9
12.5°	577.3	558.6	514.2	463.7	399.2	331.4	265.0	108.9	34.6	13.6	5.6
15°	1083.5	1044.7	975.5	874.6	742.8	594.6	468.4	176.7	33.7	11.2	4.2
17.5°	1636.0	1598.6	1502.8	1349.5	1155.5	927.9	704.4	234.2	31.3	9.3	2.8
20°	2029.2	1989.4	1899.7	1737.0	1527.1	1223.8	927.4	275.3	29.4	7.0	1.4
21°	2144.1	2104.4	2009.5	1852.5	1631.8	1327.5	998.9	282.3	28.0	6.1	0.9
22°	2217.1	2193.7	2091.8	1939.4	1714.6	1410.7	1060.2	285.6	27.1	5.6	0.9
23°	2290.5	2255.4	2160.0	1999.2	1777.7	1472.4	1105.5	283.3	26.2	4.7	0.5
24°	2344.7	2315.2	2204.4	2045.5	1821.6	1510.3	1132.1	277.2	24.8	4.2	0.5
25°	2383.5	2356.4	2240.9	2076.8	1851.1	1530.9	1140.6	267.8	23.4	3.7	0.5
26°	2420.4	2391.0	2271.3	2095.1	1866.5	1537.4	1132.6	257.6	22.0	3.3	0.0
27°	2447.0	2417.1	2292.3	2105.8	1867.4	1529.5	1111.1	243.5	20.6	2.8	0.0
28°	2475.6	2441.0	2306.8	2111.9	1861.8	1510.8	1080.3	228.6	19.6	2.3	0.0
29°	2492.9	2460.1	2321.8	2118.4	1850.1	1479.4	1035.4	210.8	17.3	1.4	0.0
30°	2504.1	2465.3	2320.4	2111.4	1834.7	1445.8	981.6	195.9	15.0	1.4	0.0
31°	2494.7	2454.1	2305.4	2091.8	1809.9	1401.9	926.5	177.2	12.2	0.9	0.0
32°	2474.6	2426.5	2279.2	2057.7	1765.5	1345.3	869.4	161.7	8.9	0.9	0.0
33°	2425.5	2384.9	2232.0	2011.9	1707.6	1268.6	795.1	146.8	6.1	0.5	0.0
34°	2363.8	2323.2	2167.5	1950.6	1630.0	1169.5	704.9	131.4	5.1	0.5	0.0
35°	2282.5	2242.3	2094.6	1865.1	1527.1	1050.3	611.9	117.8	4.2	0.5	0.0
36°	2197.0	2143.7	2002.5	1773.9	1389.2	914.8	512.3	102.4	3.3	0.5	0.0
37°	2071.2	2035.2	1878.6	1635.1	1240.1	784.8	439.9	88.3	2.3	0.5	0.0
38°	1940.8	1907.6	1754.8	1495.3	1073.7	656.3	368.3	74.8	1.9	0.0	0.0
39°	1806.2	1751.0	1600.0	1316.3	899.4	549.7	309.9	62.6	0.9	0.0	0.0
40°	1594.9	1552.8	1391.6	1101.3	744.2	445.5	264.1	47.7	0.9	0.0	0.0
42.5°	1057.3	1018.1	848.9	597.4	395.5	260.4	174.4	18.7	0.0	0.5	0.0
45°	545.0	520.3	422.6	312.7	224.4	159.9	112.2	11.7	0.0	0.5	0.5
47.5°	216.4	212.2	191.7	165.5	127.6	94.9	61.2	5.1	0.0	0.5	0.5
50°	58.4	58.9	55.2	51.0	46.3	43.5	25.7	1.4	0.0	0.9	0.5
52.5°	24.8	25.2	24.3	22.9	20.6	15.4	10.3	0.5	0.5	0.9	0.9
55°	5.1	5.6	6.1	6.5	7.5	6.5	4.2	0.0	0.5	0.9	0.9
57.5°	0.9	0.9	0.9	0.9	1.4	1.4	0.9	0.0	0.5	0.9	1.4
60°	0.5	0.5	0.5	0.5	0.5	0.0	0.0	0.0	0.9	1.4	1.4
62.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.9	1.4	1.9
65°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.9	1.9	1.9
67.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.4	1.9	1.9
70°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.4	1.9	1.9
72.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.4	1.9	1.4
75°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.4	1.4	1.4
77.5°	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.9	1.4	1.4
80°	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.9	1.4	0.9



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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	0.5	0.5	0.9	1.4	0.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.9	1.4	0.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.9	1.4	0.9
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°	21.5	21.5	21.5
2.5°	15.0	13.6	13.1
5°	10.3	8.9	7.9
7.5°	7.0	5.6	5.1
10°	4.7	3.7	3.3
12.5°	3.3	1.9	1.9
15°	1.9	1.4	1.4
17.5°	0.9	0.5	0.5
20°	0.5	0.5	0.5
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	0.5
39°	0.0	0.5	0.5
40°	0.0	0.5	0.5
42.5°	0.0	0.5	0.9
45°	0.5	0.9	1.4
47.5°	0.9	1.4	1.9
50°	0.9	1.9	1.9
52.5°	1.4	1.9	2.3
55°	1.4	2.3	2.3
57.5°	1.9	2.3	2.8
60°	1.9	2.3	2.3
62.5°	1.9	2.8	2.8
65°	2.3	2.8	2.8
67.5°	2.3	2.8	2.8
70°	1.9	2.3	2.8
72.5°	1.9	2.3	2.3
75°	1.4	1.9	1.9
77.5°	1.4	1.4	1.9
80°	0.9	1.4	1.4



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CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
82.5°	0.9	0.9	0.9
85°	0.5	0.5	0.5
87.5°	0.5	0.5	0.5
90°	0.0	0.0	0.0

(END OF REPORT)