

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: P1337443

Luminaire Tested: P3A05R259740DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1337443
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: P3A05R259740DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R25 optic, 4000K CCT AND, 97CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

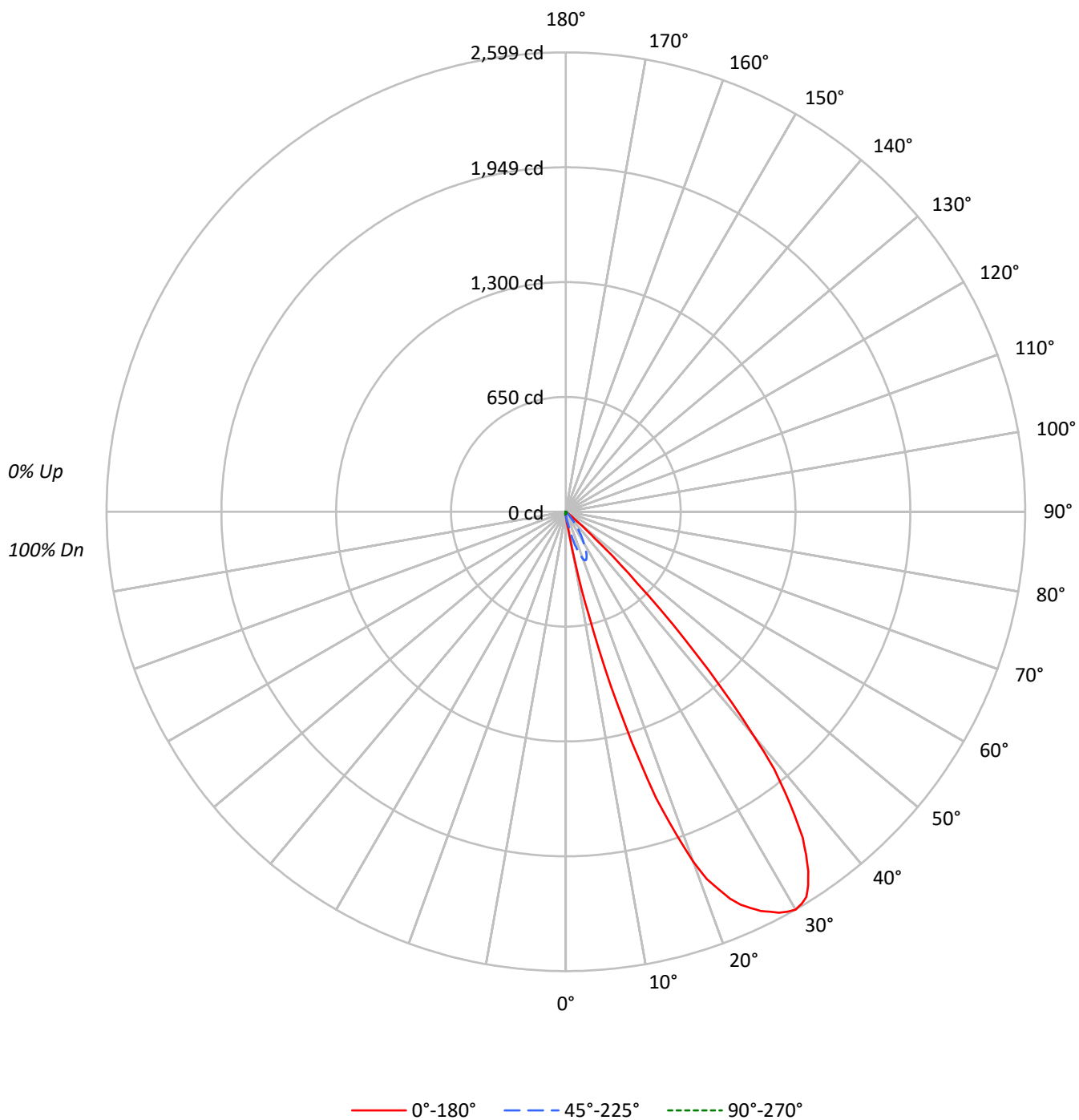
Lumens per Lamp: N/A
Luminaire Lumens: 520.0 lumens
Efficiency: N/A
Efficacy: 72.2 lumens/watt
Spacing Criteria (0/90/45): 2.36 / 0.51 / 1.27
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93
2	106	100	95	92	103	98	94	90	95	92	88	92	89	87	89	87	85
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	79	77
4	93	84	77	72	91	83	77	72	80	75	71	78	74	70	76	73	69
5	87	77	70	65	85	76	69	65	74	68	64	72	67	63	71	66	63
6	81	71	63	58	79	70	63	58	68	62	58	67	61	57	65	60	57
7	76	65	58	53	74	64	57	52	63	57	52	61	56	52	60	55	52
8	71	60	52	48	70	59	52	47	58	52	47	57	51	47	56	50	47
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	51	46	42
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	4890	4890	4890	4890	4890
5°	12283	9069	4600	2355	1805
10°	53684	15453	3785	1091	757
15°	255302	41635	2633	431	341
20°	491466	66692	1703	117	117
25°	598559	67262	944	0	0
30°	658076	51476	380	0	0
35°	634190	32739	134	0	0
40°	473859	14169	0	0	143
45°	175429	3752	155	155	465
50°	20673	512	341	341	648
55°	2026	0	382	573	918
60°	219	0	658	833	1053
65°	259	259	986	1245	1505
70°	321	321	1218	1218	1859
75°	424	424	1271	1271	1610
80°	0	631	1894	1263	1894
85°	0	1258	3774	1258	1258

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 175429 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.2	0.6
10°-20°	60.6	11.7
20°-30°	190.3	36.6
30°-40°	200.3	38.5
40°-50°	58.9	11.3
50°-60°	3.2	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°	254.2	48.9
0°-40°	454.5	87.4
0°-60°	516.5	99.3
0°-90°	520.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	520.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	22	22	22	22	22	
5°	56	41	21	11	8	10
15°	1125	183	12	2	2	355
25°	2474	278	4	0	0	1135
35°	2369	122	0	0	0	1430
45°	566	12	0	0	2	514
55°	5	0	1	2	2	14
65°	0	0	2	2	3	0
75°	0	0	2	2	2	0
85°	0	0	2	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°	22.3	22.3	22.3	22.3	22.3	22.3	22.3	22.3	22.3	22.3	22.3
2.5°	34.4	34.9	33.5	34.4	33.5	33.0	32.5	30.1	26.2	22.3	18.4
5°	55.8	55.8	53.4	52.9	51.9	50.0	48.0	41.2	29.6	20.9	14.6
7.5°	87.3	86.8	85.9	83.4	78.6	73.7	68.9	53.9	32.5	19.4	11.2
10°	241.1	237.7	233.4	207.2	177.6	151.4	128.6	69.4	34.9	17.0	8.2
12.5°	599.2	579.8	533.7	481.3	414.3	344.0	275.1	113.0	35.9	14.1	5.8
15°	1124.6	1084.3	1012.5	907.7	770.9	617.1	486.1	183.4	34.9	11.6	4.4
17.5°	1698.1	1659.3	1559.8	1400.7	1199.3	963.1	731.1	243.1	32.5	9.7	2.9
20°	2106.1	2064.9	1971.7	1802.9	1585.0	1270.2	962.6	285.8	30.6	7.3	1.5
21°	2225.5	2184.2	2085.7	1922.7	1693.7	1377.9	1036.8	293.0	29.1	6.3	1.0
22°	2301.1	2276.9	2171.1	2013.0	1779.6	1464.2	1100.4	296.4	28.1	5.8	1.0
23°	2377.3	2340.9	2242.0	2075.1	1845.1	1528.3	1147.4	294.0	27.2	4.9	0.5
24°	2433.6	2403.0	2288.0	2123.1	1890.7	1567.6	1175.1	287.7	25.7	4.4	0.5
25°	2473.9	2445.7	2325.9	2155.6	1921.3	1588.9	1183.8	278.0	24.3	3.9	0.5
26°	2512.2	2481.6	2357.4	2174.5	1937.3	1595.7	1175.6	267.3	22.8	3.4	0.0
27°	2539.8	2508.8	2379.3	2185.7	1938.2	1587.5	1153.2	252.8	21.3	2.9	0.0
28°	2569.4	2533.5	2394.3	2192.0	1932.4	1568.1	1121.2	237.2	20.4	2.4	0.0
29°	2587.4	2553.4	2409.8	2198.8	1920.3	1535.6	1074.6	218.8	18.0	1.5	0.0
30°	2599.0	2558.8	2408.4	2191.5	1904.3	1500.6	1018.8	203.3	15.5	1.5	0.0
31°	2589.3	2547.1	2392.8	2171.1	1878.6	1455.0	961.6	183.9	12.6	1.0	0.0
32°	2568.5	2518.5	2365.7	2135.7	1832.5	1396.3	902.4	167.9	9.2	1.0	0.0
33°	2517.5	2475.3	2316.7	2088.2	1772.3	1316.7	825.3	152.3	6.3	0.5	0.0
34°	2453.5	2411.3	2249.7	2024.6	1691.8	1213.9	731.6	136.3	5.3	0.5	0.0
35°	2369.1	2327.3	2174.0	1935.8	1585.0	1090.2	635.1	122.3	4.4	0.5	0.0
36°	2280.3	2225.0	2078.5	1841.2	1441.9	949.5	531.7	106.3	3.4	0.5	0.0
37°	2149.8	2112.4	1949.9	1697.1	1287.1	814.6	456.5	91.7	2.4	0.5	0.0
38°	2014.4	1980.0	1821.3	1552.0	1114.4	681.2	382.3	77.6	1.9	0.0	0.0
39°	1874.7	1817.4	1660.7	1366.2	933.5	570.6	321.7	65.0	1.0	0.0	0.0
40°	1655.4	1611.7	1444.3	1143.1	772.4	462.4	274.1	49.5	1.0	0.0	0.0
42.5°	1097.4	1056.7	881.1	620.0	410.5	270.2	181.0	19.4	0.0	0.5	0.0
45°	565.7	540.0	438.6	324.6	232.9	165.9	116.4	12.1	0.0	0.5	0.5
47.5°	224.6	220.3	198.9	171.7	132.5	98.5	63.6	5.3	0.0	0.5	0.5
50°	60.6	61.1	57.2	52.9	48.0	45.1	26.7	1.5	0.0	1.0	0.5
52.5°	25.7	26.2	25.2	23.8	21.3	16.0	10.7	0.5	0.5	1.0	1.0
55°	5.3	5.8	6.3	6.8	7.8	6.8	4.4	0.0	0.5	1.0	1.0
57.5°	1.0	1.0	1.0	1.0	1.5	1.5	1.0	0.0	0.5	1.0	1.5
60°	0.5	0.5	0.5	0.5	0.5	0.0	0.0	0.0	1.0	1.5	1.5
62.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.0	1.5	1.9
65°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.0	1.9	1.9
67.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.5	1.9	1.9
70°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.5	1.9	1.9
72.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.5	1.9	1.5
75°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.5	1.5	1.5
77.5°	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	1.0	1.5	1.5
80°	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	1.0	1.5	1.0



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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	1.0	1.5	1.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.0	1.5	1.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.0	1.5	1.0
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°	22.3	22.3	22.3
2.5°	15.5	14.1	13.6
5°	10.7	9.2	8.2
7.5°	7.3	5.8	5.3
10°	4.9	3.9	3.4
12.5°	3.4	1.9	1.9
15°	1.9	1.5	1.5
17.5°	1.0	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	1.0
45°	0.5	1.0	1.5
47.5°	1.0	1.5	1.9
50°	1.0	1.9	1.9
52.5°	1.5	1.9	2.4
55°	1.5	2.4	2.4
57.5°	1.9	2.4	2.9
60°	1.9	2.4	2.4
62.5°	1.9	2.9	2.9
65°	2.4	2.9	2.9
67.5°	2.4	2.9	2.9
70°	1.9	2.4	2.9
72.5°	1.9	2.4	2.4
75°	1.5	1.9	1.9
77.5°	1.5	1.5	1.9
80°	1.0	1.5	1.5



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CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
82.5°	1.0	1.0	1.0
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)