

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: P1337395

Luminaire Tested: P3A05R259727DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1337395
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: P3A05R259727DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R25 optic, 2700K CCT AND, 97CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

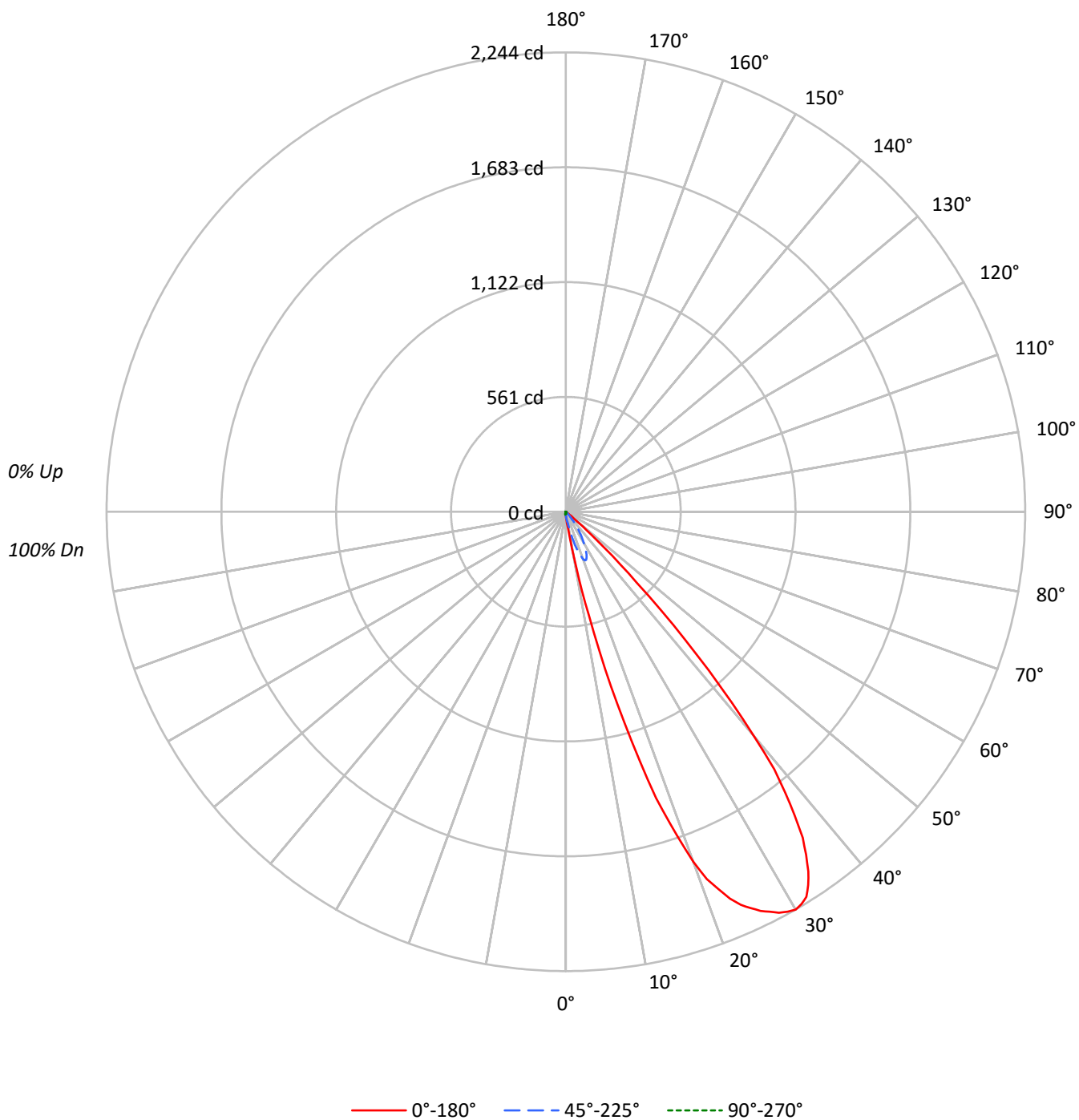
Lumens per Lamp: N/A
Luminaire Lumens: 449.0 lumens
Efficiency: N/A
Efficacy: 62.4 lumens/watt
Spacing Criteria (0/90/45): 2.36 / 0.51 / 1.27
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	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	95	92	104	98	94	90	95	92	88	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	79	77	77	77	75
4	93	84	77	72	91	83	77	72	80	75	71	78	74	70	76	73	69	69	69	68
5	87	77	70	65	85	76	69	65	74	68	64	72	67	63	71	66	63	63	63	61
6	81	71	63	58	79	70	63	58	68	62	58	67	61	57	65	60	57	57	57	55
7	76	65	58	53	74	64	57	52	63	57	52	61	56	52	60	55	52	52	52	50
8	71	60	52	48	70	59	52	47	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	44	39	49	43	39	48	43	39	48	42	39	39	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	4232	4232	4232	4232	4232
5°	10610	7836	3962	2025	1563
10°	46359	13338	3273	935	646
15°	220455	35959	2293	386	295
20°	424354	57568	1470	93	93
25°	516828	58068	823	0	0
30°	568239	44437	329	0	0
35°	547591	28268	107	0	0
40°	409167	12223	0	0	115
45°	151489	3256	124	124	403
50°	17876	443	273	273	580
55°	1759	0	306	497	803
60°	175	0	570	746	921
65°	208	208	882	1090	1297
70°	256	256	1090	1090	1603
75°	339	339	1101	1101	1440
80°	0	505	1642	1010	1642
85°	0	1006	3271	1006	1006

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 151489 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.8	0.6
10°-20°	52.3	11.7
20°-30°	164.3	36.6
30°-40°	173.0	38.5
40°-50°	50.8	11.3
50°-60°	2.7	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°	219.5	48.9
0°-40°	392.4	87.4
0°-60°	445.9	99.3
0°-90°	449.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	449.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	19	19	19	19	19	
5°	48	36	18	9	7	9
15°	971	158	10	2	1	306
25°	2136	240	3	0	0	980
35°	2046	106	0	0	0	1234
45°	488	10	0	0	1	444
55°	5	0	1	1	2	12
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°	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3
2.5°	29.7	30.2	28.9	29.7	28.9	28.5	28.1	26.0	22.6	19.3	15.9
5°	48.2	48.2	46.1	45.7	44.8	43.1	41.5	35.6	25.6	18.0	12.6
7.5°	75.4	75.0	74.1	72.1	67.9	63.7	59.5	46.5	28.1	16.8	9.6
10°	208.2	205.3	201.5	178.9	153.3	130.7	111.0	59.9	30.2	14.7	7.1
12.5°	517.4	500.6	460.8	415.6	357.8	297.0	237.5	97.6	31.0	12.1	5.0
15°	971.1	936.3	874.3	783.8	665.7	532.9	419.8	158.4	30.2	10.1	3.8
17.5°	1466.2	1432.7	1346.8	1209.4	1035.6	831.6	631.3	209.9	28.1	8.4	2.5
20°	1818.5	1782.9	1702.5	1556.7	1368.6	1096.7	831.1	246.7	26.4	6.3	1.3
21°	1921.6	1886.0	1800.9	1660.2	1462.5	1189.7	895.2	253.0	25.1	5.4	0.8
22°	1987.0	1966.0	1874.7	1738.1	1536.6	1264.3	950.1	256.0	24.3	5.0	0.8
23°	2052.7	2021.3	1935.8	1791.7	1593.2	1319.6	990.8	253.9	23.5	4.2	0.4
24°	2101.3	2074.9	1975.6	1833.2	1632.5	1353.5	1014.6	248.4	22.2	3.8	0.4
25°	2136.1	2111.8	2008.3	1861.3	1658.9	1372.0	1022.2	240.0	20.9	3.4	0.4
26°	2169.2	2142.8	2035.5	1877.6	1672.8	1377.8	1015.0	230.8	19.7	2.9	0.0
27°	2193.1	2166.2	2054.4	1887.2	1673.6	1370.7	995.8	218.3	18.4	2.5	0.0
28°	2218.6	2187.6	2067.4	1892.7	1668.6	1354.0	968.1	204.9	17.6	2.1	0.0
29°	2234.1	2204.8	2080.8	1898.6	1658.1	1325.9	927.9	188.9	15.5	1.3	0.0
30°	2244.2	2209.4	2079.5	1892.3	1644.3	1295.7	879.7	175.5	13.4	1.3	0.0
31°	2235.8	2199.3	2066.1	1874.7	1622.1	1256.3	830.3	158.8	10.9	0.8	0.0
32°	2217.8	2174.6	2042.7	1844.1	1582.3	1205.7	779.2	144.9	8.0	0.8	0.0
33°	2173.8	2137.3	2000.4	1803.0	1530.3	1137.0	712.6	131.5	5.4	0.4	0.0
34°	2118.5	2082.0	1942.5	1748.2	1460.8	1048.1	631.7	117.7	4.6	0.4	0.0
35°	2045.6	2009.6	1877.2	1671.5	1368.6	941.3	548.4	105.6	3.8	0.4	0.0
36°	1968.9	1921.2	1794.7	1589.8	1245.0	819.8	459.1	91.7	2.9	0.4	0.0
37°	1856.2	1824.0	1683.7	1465.4	1111.4	703.4	394.2	79.2	2.1	0.4	0.0
38°	1739.4	1709.6	1572.6	1340.1	962.3	588.2	330.1	67.0	1.7	0.0	0.0
39°	1618.7	1569.3	1434.0	1179.7	806.0	492.7	277.7	56.1	0.8	0.0	0.0
40°	1429.4	1391.7	1247.1	987.0	666.9	399.2	236.7	42.7	0.8	0.0	0.0
42.5°	947.6	912.4	760.8	535.4	354.4	233.3	156.3	16.8	0.0	0.4	0.0
45°	488.5	466.3	378.7	280.3	201.1	143.3	100.5	10.5	0.0	0.4	0.4
47.5°	194.0	190.2	171.8	148.3	114.4	85.0	54.9	4.6	0.0	0.4	0.4
50°	52.4	52.8	49.4	45.7	41.5	39.0	23.0	1.3	0.0	0.8	0.4
52.5°	22.2	22.6	21.8	20.5	18.4	13.8	9.2	0.4	0.4	0.8	0.8
55°	4.6	5.0	5.4	5.9	6.7	5.9	3.8	0.0	0.4	0.8	0.8
57.5°	0.8	0.8	0.8	0.8	1.3	1.3	0.8	0.0	0.4	0.8	1.3
60°	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.8	1.3	1.3
62.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8	1.3	1.7
65°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8	1.7	1.7
67.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	1.3	1.7	1.7
70°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	1.3	1.7	1.7
72.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	1.3	1.7	1.3
75°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	1.3	1.3	1.3
77.5°	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.8	1.3	1.3
80°	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.8	1.3	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	1.3	0.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.8	1.3	0.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.8	1.3	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°	19.3	19.3	19.3
2.5°	13.4	12.1	11.7
5°	9.2	8.0	7.1
7.5°	6.3	5.0	4.6
10°	4.2	3.4	2.9
12.5°	2.9	1.7	1.7
15°	1.7	1.3	1.3
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	1.3
47.5°	0.8	1.3	1.7
50°	0.8	1.7	1.7
52.5°	1.3	1.7	2.1
55°	1.3	2.1	2.1
57.5°	1.7	2.1	2.5
60°	1.7	2.1	2.1
62.5°	1.7	2.5	2.5
65°	2.1	2.5	2.5
67.5°	2.1	2.5	2.5
70°	1.7	2.1	2.5
72.5°	1.7	2.1	2.1
75°	1.3	1.7	1.7
77.5°	1.3	1.3	1.7
80°	0.8	1.3	1.3

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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)