

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: P1336427

Luminaire Tested: P3A05R159735DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1336427
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: P3A05R159735DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R15 optic, 3500K CCT AND, 97CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

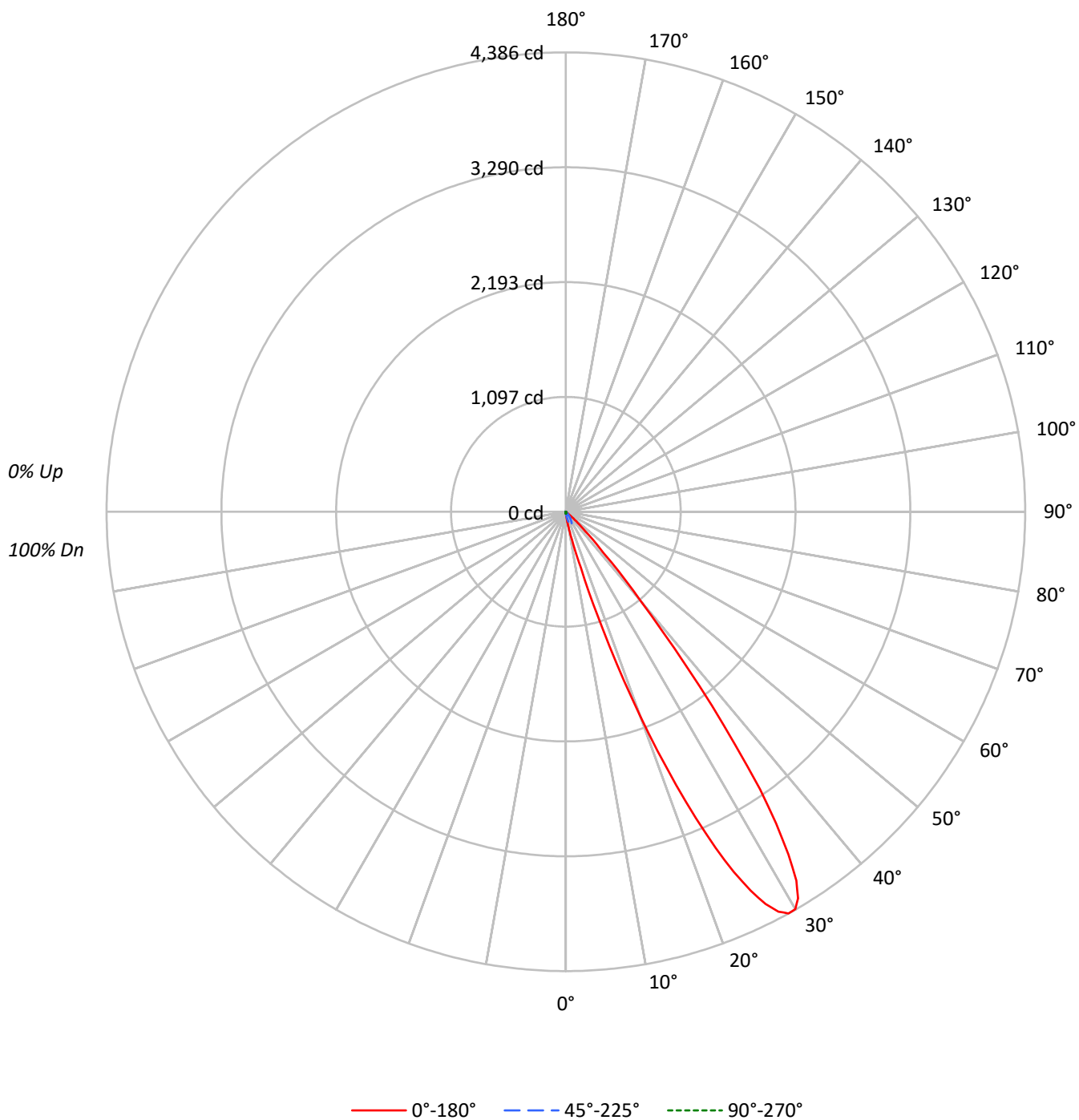
Lumens per Lamp: N/A
Luminaire Lumens: 479.0 lumens
Efficiency: N/A
Efficacy: 66.5 lumens/watt
Spacing Criteria (0/90/45): 2.35 / 0.49 / 1.26
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1336427

CATALOG NUMBER: P3A05R159735DE010 E3CA301MW

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	3465	3465	3465	3465	3465
5°	7484	5547	3280	1739	1431
10°	33199	10487	2583	735	512
15°	125563	24223	1793	318	204
20°	482879	34140	1097	117	117
25°	918222	32010	556	0	0
30°	1109234	25827	228	0	0
35°	865128	17587	134	0	0
40°	315706	8673	143	0	143
45°	81063	2605	155	0	279
50°	13680	307	171	171	478
55°	1797	0	344	535	879
60°	219	219	614	833	1228
65°	259	259	986	1193	1453
70°	321	321	1218	1218	1475
75°	424	424	1610	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: 81063 cd/sqm

TEST NUMBER: P1336427

CATALOG NUMBER: P3A05R159735DE010 E3CA301MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.2	0.5
10°-20°	36.7	7.7
20°-30°	203.6	42.5
30°-40°	196.7	41.1
40°-50°	34.2	7.1
50°-60°	2.5	0.5
60°-70°	1.5	0.3
70°-80°	1.2	0.2
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°	242.5	50.6
0°-40°	439.1	91.7
0°-60°	475.8	99.3
0°-90°	479.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	479.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	16	16	16	16	16	
5°	34	25	15	8	6	7
15°	553	107	8	1	1	246
25°	3795	132	2	0	0	1697
35°	3232	66	0	0	0	1859
45°	261	8	0	0	1	281
55°	5	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	

TEST NUMBER: P1336427

CATALOG NUMBER: P3A05R159735DE010 E3CA301MW

CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8
2.5°	23.3	22.4	22.8	22.8	22.8	22.8	22.8	21.9	21.9	22.4	20.0
5°	34.0	34.0	33.5	34.0	34.0	33.5	32.6	32.2	32.2	31.2	25.2
7.5°	68.0	67.1	67.1	66.2	61.5	60.1	59.2	56.8	52.7	51.7	32.6
10°	149.1	149.6	146.3	142.1	141.6	134.7	132.3	128.1	120.2	112.3	47.1
12.5°	270.7	264.7	256.7	257.2	243.7	239.0	228.3	216.7	204.6	192.0	77.3
15°	553.1	535.8	546.1	520.9	492.5	460.4	427.7	386.7	351.8	314.5	106.7
17.5°	1164.9	1181.6	1153.2	1045.6	979.4	901.6	792.1	686.3	595.9	523.3	130.5
20°	2069.3	2094.0	1997.5	1903.9	1743.1	1567.9	1385.3	1178.4	980.4	808.9	146.3
21°	2447.2	2432.2	2392.6	2242.6	2057.2	1854.0	1630.3	1402.0	1162.1	939.3	147.7
22°	2812.5	2819.4	2727.2	2570.2	2377.3	2152.2	1879.2	1597.3	1338.7	1045.6	145.4
23°	3176.4	3198.7	3076.6	2929.4	2686.6	2432.7	2116.8	1812.5	1492.9	1167.2	140.7
24°	3513.2	3497.9	3415.4	3229.9	2970.4	2673.1	2345.1	1976.1	1619.6	1271.1	137.0
25°	3795.1	3793.3	3663.7	3483.4	3186.6	2857.2	2495.6	2109.8	1728.2	1341.5	132.3
26°	4025.8	3988.0	3886.0	3666.1	3373.0	3025.4	2619.1	2207.2	1789.2	1376.9	127.7
27°	4203.8	4176.7	4039.8	3811.0	3504.9	3120.4	2698.3	2255.6	1817.2	1388.5	121.6
28°	4323.5	4294.2	4148.3	3912.6	3577.5	3180.1	2740.2	2276.1	1817.2	1377.3	116.0
29°	4385.5	4345.4	4200.0	3947.5	3594.3	3187.1	2730.0	2256.1	1788.8	1342.9	109.5
30°	4380.8	4331.0	4178.6	3915.8	3544.5	3129.8	2672.7	2183.9	1724.5	1291.6	102.0
31°	4305.3	4249.4	4079.4	3808.6	3441.5	3021.7	2564.6	2087.0	1636.4	1225.0	94.6
32°	4152.0	4081.2	3915.3	3645.6	3283.1	2860.0	2407.5	1937.4	1504.5	1127.6	86.7
33°	3902.3	3831.0	3653.0	3400.0	3068.7	2655.0	2199.3	1776.7	1354.5	1011.6	80.1
34°	3589.7	3524.4	3371.1	3116.3	2798.5	2395.4	1959.8	1554.4	1198.9	896.5	73.2
35°	3231.8	3127.9	2989.0	2787.3	2477.4	2072.1	1701.2	1347.5	1038.6	775.8	65.7
36°	2747.7	2766.3	2619.1	2372.1	2115.4	1797.6	1441.6	1123.4	868.5	661.2	59.2
37°	2318.6	2289.2	2195.5	2004.5	1780.8	1465.4	1208.2	952.4	730.6	559.1	52.2
38°	1870.3	1876.8	1785.0	1638.3	1416.5	1204.9	972.4	782.3	611.3	475.7	45.7
39°	1464.0	1458.9	1434.2	1298.1	1097.3	958.5	787.9	648.6	509.3	401.2	38.7
40°	1102.9	1111.3	1053.5	971.5	854.5	740.4	627.6	517.2	421.2	338.3	30.3
42.5°	536.3	549.4	511.1	490.2	438.5	393.7	332.2	271.2	230.6	199.4	13.5
45°	261.4	253.9	250.7	240.4	228.3	204.1	180.8	155.2	135.6	117.0	8.4
47.5°	133.7	130.0	130.0	125.8	121.6	113.7	102.0	93.7	84.3	72.7	3.3
50°	40.1	39.6	39.1	39.6	38.2	39.6	40.5	41.0	37.3	36.8	0.9
52.5°	15.8	16.3	15.8	17.2	17.2	16.8	17.2	16.8	16.3	14.4	0.0
55°	4.7	4.7	4.7	4.7	4.7	4.7	5.1	5.6	5.1	5.6	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°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.0	0.5
62.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
65°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
67.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
70°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
72.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
75°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5



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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	0.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
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°	15.8	15.8	15.8	15.8	15.8	15.8
2.5°	18.6	16.3	13.5	11.2	10.3	9.8
5°	20.0	14.9	10.3	7.9	7.0	6.5
7.5°	21.4	13.5	7.9	5.6	4.2	3.7
10°	22.4	11.6	6.1	3.3	2.3	2.3
12.5°	22.4	9.3	4.2	1.9	1.4	1.4
15°	21.9	7.9	2.8	1.4	0.9	0.9
17.5°	21.4	6.1	1.9	0.9	0.5	0.9
20°	20.0	4.7	0.9	0.5	0.5	0.5
21°	19.6	4.2	0.9	0.5	0.5	0.5
22°	18.6	3.7	0.5	0.0	0.5	0.5
23°	17.7	2.8	0.5	0.0	0.0	0.0
24°	16.3	2.3	0.5	0.0	0.0	0.0
25°	15.4	2.3	0.5	0.0	0.0	0.0
26°	14.4	1.4	0.0	0.0	0.0	0.0
27°	13.0	0.9	0.0	0.0	0.0	0.0
28°	12.1	0.9	0.0	0.0	0.0	0.0
29°	10.7	0.9	0.0	0.0	0.0	0.0
30°	9.3	0.9	0.0	0.0	0.0	0.0
31°	7.5	0.5	0.0	0.0	0.0	0.0
32°	6.1	0.5	0.0	0.0	0.0	0.0
33°	4.2	0.5	0.0	0.0	0.0	0.0
34°	2.8	0.5	0.0	0.0	0.0	0.0
35°	2.3	0.5	0.0	0.0	0.0	0.0
36°	1.4	0.5	0.0	0.0	0.0	0.5
37°	1.4	0.5	0.0	0.0	0.0	0.5
38°	0.9	0.5	0.0	0.0	0.0	0.5
39°	0.5	0.5	0.0	0.0	0.0	0.5
40°	0.5	0.5	0.0	0.0	0.0	0.5
42.5°	0.0	0.5	0.0	0.0	0.5	0.9
45°	0.0	0.5	0.0	0.0	0.5	0.9
47.5°	0.0	0.5	0.0	0.0	0.9	0.9
50°	0.0	0.5	0.5	0.5	0.9	1.4
52.5°	0.0	0.9	0.5	0.9	1.4	1.9
55°	0.5	0.9	0.9	1.4	1.9	2.3
57.5°	0.5	1.4	1.4	1.9	2.3	2.3
60°	0.9	1.4	1.9	1.9	2.8	2.8
62.5°	0.9	1.9	1.9	1.9	2.8	2.8
65°	0.9	1.9	1.9	2.3	2.8	2.8
67.5°	0.9	1.9	1.9	1.9	2.3	2.8
70°	0.9	1.9	1.4	1.9	2.3	2.3
72.5°	0.9	1.9	1.4	1.4	1.9	2.3
75°	0.9	1.9	1.4	1.4	1.9	1.9
77.5°	0.9	1.4	1.4	0.9	1.4	1.4
80°	0.9	1.4	0.9	0.9	1.4	1.4



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.9	1.4	0.9	0.5	0.9	0.9
85°	0.9	1.4	0.9	0.5	0.5	0.5
87.5°	0.9	1.4	0.5	0.0	0.0	0.5
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)