

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: P1336459

Luminaire Tested: P3A05R159827DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1336459
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: P3A05R159827DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R15 optic, 2700K CCT AND, 98CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

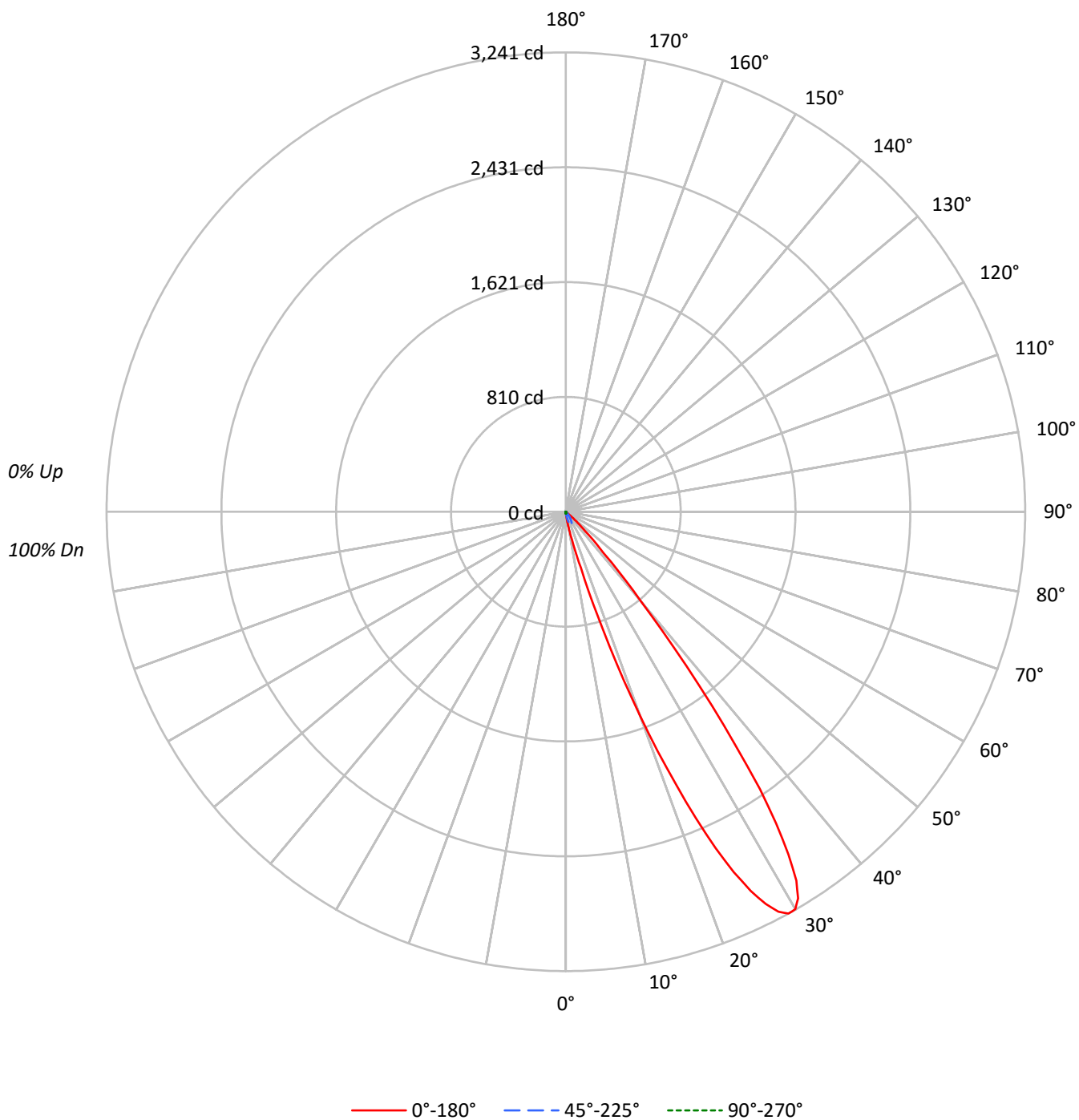
Lumens per Lamp: N/A
Luminaire Lumens: 353.9 lumens
Efficiency: N/A
Efficacy: 49.2 lumens/watt
Spacing Criteria (0/90/45): 2.35 / 0.49 / 1.26
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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: P1336459

CATALOG NUMBER: P3A05R159827DE010 E3CA301MW

Luminous Intensity Polar Plot



TEST NUMBER: P1336459

CATALOG NUMBER: P3A05R159827DE010 E3CA301MW

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20			
RC	80				70				50				30				10			0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
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	48	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°	2566	2566	2566	2566	2566
5°	5525	4094	2421	1299	1057
10°	24538	7749	1915	534	379
15°	92781	17912	1339	227	159
20°	356868	25226	793	70	70
25°	678620	23663	411	0	0
30°	819772	19092	177	0	0
35°	639356	13010	80	0	0
40°	233323	6412	86	0	86
45°	59913	1923	93	0	217
50°	10098	239	102	102	341
55°	1300	0	268	382	650
60°	132	132	439	614	921
65°	156	156	726	882	1090
70°	192	192	898	898	1090
75°	254	254	1186	847	1186
80°	0	379	1263	884	1263
85°	0	755	2516	755	755

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 59913 cd/sqm

TEST NUMBER: P1336459

CATALOG NUMBER: P3A05R159827DE010 E3CA301MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.6	0.5
10°-20°	27.1	7.7
20°-30°	150.5	42.5
30°-40°	145.3	41.1
40°-50°	25.3	7.1
50°-60°	1.8	0.5
60°-70°	1.1	0.3
70°-80°	0.9	0.2
80°-90°	0.4	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°	179.2	50.6
0°-40°	324.5	91.7
0°-60°	351.6	99.3
0°-90°	353.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	353.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	12	12	12	12	12	
5°	25	19	11	6	5	5
15°	409	79	6	1	1	182
25°	2805	98	2	0	0	1254
35°	2388	49	0	0	0	1374
45°	193	6	0	0	1	208
55°	3	0	1	1	2	7
65°	0	0	1	2	2	0
75°	0	0	1	1	1	0
85°	0	0	1	0	0	0
90°	0	0	0	0	0	

TEST NUMBER: P1336459

CATALOG NUMBER: P3A05R159827DE010 E3CA301MW

CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7
2.5°	17.2	16.5	16.9	16.9	16.9	16.9	16.9	16.2	16.2	16.5	14.8
5°	25.1	25.1	24.8	25.1	25.1	24.8	24.1	23.8	23.8	23.1	18.6
7.5°	50.3	49.6	49.6	48.9	45.5	44.4	43.7	42.0	38.9	38.2	24.1
10°	110.2	110.5	108.1	105.0	104.7	99.5	97.8	94.7	88.8	83.0	34.8
12.5°	200.1	195.6	189.7	190.1	180.1	176.7	168.7	160.1	151.2	141.9	57.2
15°	408.7	396.0	403.6	385.0	364.0	340.2	316.1	285.8	260.0	232.4	78.9
17.5°	860.9	873.3	852.3	772.7	723.8	666.3	585.4	507.2	440.4	386.7	96.4
20°	1529.3	1547.5	1476.2	1407.0	1288.2	1158.7	1023.8	870.9	724.5	597.8	108.1
21°	1808.5	1797.5	1768.3	1657.4	1520.3	1370.2	1204.9	1036.2	858.8	694.2	109.2
22°	2078.5	2083.7	2015.5	1899.5	1756.9	1590.6	1388.8	1180.4	989.3	772.7	107.4
23°	2347.5	2364.0	2273.8	2164.9	1985.5	1797.9	1564.4	1339.5	1103.3	862.6	104.0
24°	2596.4	2585.1	2524.1	2387.1	2195.3	1975.6	1733.1	1460.4	1197.0	939.4	101.2
25°	2804.8	2803.4	2707.6	2574.4	2355.0	2111.6	1844.4	1559.2	1277.2	991.4	97.8
26°	2975.2	2947.3	2871.9	2709.4	2492.8	2235.9	1935.6	1631.2	1322.3	1017.6	94.4
27°	3106.8	3086.8	2985.5	2816.5	2590.2	2306.1	1994.1	1667.0	1343.0	1026.2	89.9
28°	3195.3	3173.6	3065.8	2891.5	2643.9	2350.2	2025.1	1682.2	1343.0	1017.9	85.7
29°	3241.1	3211.4	3104.0	2917.4	2656.3	2355.4	2017.6	1667.4	1322.0	992.4	80.9
30°	3237.6	3200.8	3088.2	2893.9	2619.5	2313.0	1975.2	1614.0	1274.5	954.5	75.4
31°	3181.8	3140.5	3014.8	2814.7	2543.4	2233.1	1895.3	1542.4	1209.4	905.3	69.9
32°	3068.5	3016.2	2893.6	2694.2	2426.3	2113.6	1779.3	1431.8	1111.9	833.3	64.0
33°	2884.0	2831.3	2699.7	2512.7	2267.9	1962.1	1625.3	1313.0	1001.0	747.6	59.2
34°	2652.9	2604.7	2491.4	2303.0	2068.2	1770.3	1448.3	1148.8	886.0	662.5	54.1
35°	2388.4	2311.6	2209.0	2059.9	1830.9	1531.3	1257.2	995.9	767.6	573.3	48.6
36°	2030.6	2044.4	1935.6	1753.1	1563.4	1328.5	1065.4	830.2	641.9	488.6	43.7
37°	1713.5	1691.8	1622.6	1481.4	1316.1	1083.0	892.9	703.9	539.9	413.2	38.6
38°	1382.2	1387.1	1319.2	1210.7	1046.8	890.5	718.7	578.2	451.8	351.6	33.7
39°	1082.0	1078.2	1059.9	959.4	811.0	708.3	582.3	479.3	376.4	296.5	28.6
40°	815.1	821.3	778.6	718.0	631.5	547.2	463.8	382.2	311.3	250.0	22.4
42.5°	396.4	406.0	377.8	362.3	324.0	291.0	245.5	200.4	170.5	147.4	10.0
45°	193.2	187.7	185.3	177.7	168.7	150.8	133.6	114.7	100.2	86.4	6.2
47.5°	98.8	96.1	96.1	93.0	89.9	84.0	75.4	69.2	62.3	53.7	2.4
50°	29.6	29.3	28.9	29.3	28.2	29.3	30.0	30.3	27.5	27.2	0.7
52.5°	11.7	12.1	11.7	12.7	12.7	12.4	12.7	12.4	12.1	10.7	0.0
55°	3.4	3.4	3.4	3.4	3.4	3.4	3.8	4.1	3.8	4.1	0.0
57.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.0
60°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.3
62.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
65°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
67.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
70°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
72.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
75°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3



TEST NUMBER: P1336459

CATALOG NUMBER: P3A05R159827DE010 E3CA301MW

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	0.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1336459

CATALOG NUMBER: P3A05R159827DE010 E3CA301MW

CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	11.7	11.7	11.7	11.7	11.7	11.7
2.5°	13.8	12.1	10.0	8.3	7.6	7.2
5°	14.8	11.0	7.6	5.9	5.2	4.8
7.5°	15.8	10.0	5.9	4.1	3.1	2.8
10°	16.5	8.6	4.5	2.4	1.7	1.7
12.5°	16.5	6.9	3.1	1.4	1.0	1.0
15°	16.2	5.9	2.1	1.0	0.7	0.7
17.5°	15.8	4.5	1.4	0.7	0.3	0.7
20°	14.8	3.4	0.7	0.3	0.3	0.3
21°	14.5	3.1	0.7	0.3	0.3	0.3
22°	13.8	2.8	0.3	0.0	0.3	0.3
23°	13.1	2.1	0.3	0.0	0.0	0.0
24°	12.1	1.7	0.3	0.0	0.0	0.0
25°	11.4	1.7	0.3	0.0	0.0	0.0
26°	10.7	1.0	0.0	0.0	0.0	0.0
27°	9.6	0.7	0.0	0.0	0.0	0.0
28°	9.0	0.7	0.0	0.0	0.0	0.0
29°	7.9	0.7	0.0	0.0	0.0	0.0
30°	6.9	0.7	0.0	0.0	0.0	0.0
31°	5.5	0.3	0.0	0.0	0.0	0.0
32°	4.5	0.3	0.0	0.0	0.0	0.0
33°	3.1	0.3	0.0	0.0	0.0	0.0
34°	2.1	0.3	0.0	0.0	0.0	0.0
35°	1.7	0.3	0.0	0.0	0.0	0.0
36°	1.0	0.3	0.0	0.0	0.0	0.3
37°	1.0	0.3	0.0	0.0	0.0	0.3
38°	0.7	0.3	0.0	0.0	0.0	0.3
39°	0.3	0.3	0.0	0.0	0.0	0.3
40°	0.3	0.3	0.0	0.0	0.0	0.3
42.5°	0.0	0.3	0.0	0.0	0.3	0.7
45°	0.0	0.3	0.0	0.0	0.3	0.7
47.5°	0.0	0.3	0.0	0.0	0.7	0.7
50°	0.0	0.3	0.3	0.3	0.7	1.0
52.5°	0.0	0.7	0.3	0.7	1.0	1.4
55°	0.3	0.7	0.7	1.0	1.4	1.7
57.5°	0.3	1.0	1.0	1.4	1.7	1.7
60°	0.7	1.0	1.4	1.4	2.1	2.1
62.5°	0.7	1.4	1.4	1.4	2.1	2.1
65°	0.7	1.4	1.4	1.7	2.1	2.1
67.5°	0.7	1.4	1.4	1.4	1.7	2.1
70°	0.7	1.4	1.0	1.4	1.7	1.7
72.5°	0.7	1.4	1.0	1.0	1.4	1.7
75°	0.7	1.4	1.0	1.0	1.4	1.4
77.5°	0.7	1.0	1.0	0.7	1.0	1.0
80°	0.7	1.0	0.7	0.7	1.0	1.0



TEST NUMBER: P1336459

CATALOG NUMBER: P3A05R159827DE010 E3CA301MW

CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.7	1.0	0.7	0.3	0.7	0.7
85°	0.7	1.0	0.7	0.3	0.3	0.3
87.5°	0.7	1.0	0.3	0.0	0.0	0.3
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)