

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: P1334009

Luminaire Tested: P3A02R159030D2WDE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1334009
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: P3A02R159030D2WDE010 E3CA301MW
Description: 3in Adjustable Dim to Warm LED luminaire with, R15 optic, 3000K CCT AND, 90CRI ,
E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

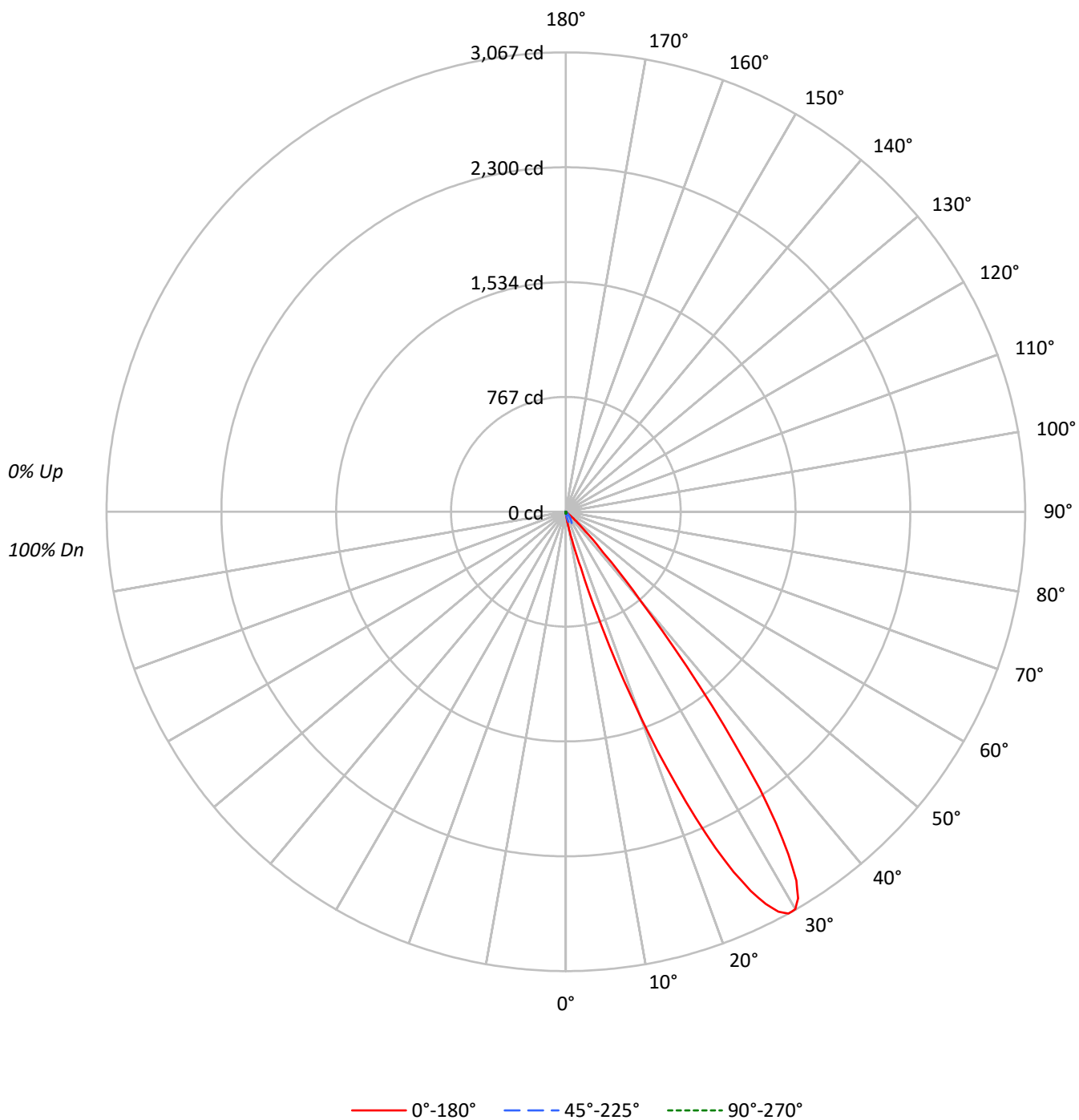
Lumens per Lamp: N/A
Luminaire Lumens: 335.0 lumens
Efficiency: N/A
Efficacy: 46.5 lumens/watt
Spacing Criteria (0/90/45): 2.35 / 0.49 / 1.26
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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

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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			0
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°	2434	2434	2434	2434	2434
5°	5239	3874	2289	1211	1013
10°	23224	7326	1804	512	356
15°	87810	16935	1249	227	159
20°	337709	23872	770	70	70
25°	642182	22380	387	0	0
30°	775765	18079	177	0	0
35°	605038	12287	80	0	0
40°	220785	6069	86	0	86
45°	56688	1830	93	0	217
50°	9552	239	102	102	341
55°	1262	0	268	382	612
60°	132	132	439	570	877
65°	156	156	675	830	1038
70°	192	192	833	833	1026
75°	254	254	1101	847	1101
80°	0	379	1263	884	1263
85°	0	755	2516	755	755

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 56688 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.5	0.5
10°-20°	25.7	7.7
20°-30°	142.4	42.5
30°-40°	137.5	41.1
40°-50°	23.9	7.1
50°-60°	1.7	0.5
60°-70°	1.0	0.3
70°-80°	0.8	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°	169.6	50.6
0°-40°	307.1	91.7
0°-60°	332.8	99.3
0°-90°	335.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	335.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	11	11	11	11	11	
5°	24	18	10	6	5	5
15°	387	75	6	1	1	172
25°	2654	92	2	0	0	1187
35°	2260	46	0	0	0	1300
45°	183	6	0	0	1	196
55°	3	0	1	1	2	6
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	

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CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1
2.5°	16.3	15.6	16.0	16.0	16.0	16.0	16.0	15.3	15.3	15.6	14.0
5°	23.8	23.8	23.5	23.8	23.8	23.5	22.8	22.5	22.5	21.8	17.6
7.5°	47.6	46.9	46.9	46.3	43.0	42.0	41.4	39.8	36.8	36.2	22.8
10°	104.3	104.6	102.3	99.4	99.1	94.2	92.5	89.6	84.1	78.5	32.9
12.5°	189.3	185.1	179.6	179.9	170.4	167.2	159.7	151.5	143.1	134.3	54.1
15°	386.8	374.8	381.9	364.3	344.4	322.0	299.1	270.5	246.0	220.0	74.6
17.5°	814.7	826.4	806.5	731.3	685.0	630.6	554.0	480.0	416.8	366.0	91.2
20°	1447.2	1464.5	1397.0	1331.5	1219.1	1096.6	968.8	824.1	685.6	565.7	102.3
21°	1711.5	1701.0	1673.3	1568.4	1438.7	1296.6	1140.2	980.5	812.7	657.0	103.3
22°	1967.0	1971.8	1907.3	1797.5	1662.6	1505.2	1314.2	1117.1	936.2	731.3	101.7
23°	2221.5	2237.1	2151.7	2048.7	1879.0	1701.4	1480.4	1267.6	1044.1	816.3	98.4
24°	2457.1	2446.3	2388.6	2258.9	2077.4	1869.5	1640.1	1382.0	1132.7	889.0	95.8
25°	2654.2	2652.9	2562.3	2436.2	2228.6	1998.2	1745.4	1475.5	1208.7	938.2	92.5
26°	2815.5	2789.1	2717.8	2564.0	2359.0	2115.9	1831.7	1543.6	1251.3	962.9	89.3
27°	2940.0	2921.1	2825.3	2665.3	2451.2	2182.4	1887.1	1577.5	1270.9	971.1	85.1
28°	3023.8	3003.2	2901.2	2736.3	2502.0	2224.1	1916.4	1591.9	1270.9	963.3	81.1
29°	3067.1	3039.1	2937.4	2760.8	2513.8	2229.0	1909.3	1577.9	1251.0	939.2	76.6
30°	3063.8	3029.0	2922.4	2738.6	2478.9	2188.9	1869.2	1527.4	1206.0	903.3	71.4
31°	3011.0	2971.9	2853.0	2663.7	2406.9	2113.3	1793.6	1459.6	1144.5	856.7	66.2
32°	2903.8	2854.3	2738.3	2549.6	2296.1	2000.2	1683.8	1355.0	1052.2	788.6	60.6
33°	2729.2	2679.3	2554.8	2377.9	2146.2	1856.8	1538.1	1242.5	947.3	707.5	56.0
34°	2510.5	2464.9	2357.7	2179.4	1957.2	1675.3	1370.6	1087.1	838.5	627.0	51.2
35°	2260.2	2187.6	2090.5	1949.4	1732.7	1449.1	1189.8	942.4	726.4	542.6	45.9
36°	1921.7	1934.7	1831.7	1659.0	1479.5	1257.2	1008.2	785.7	607.4	462.4	41.4
37°	1621.5	1601.0	1535.5	1401.9	1245.5	1024.9	845.0	666.1	511.0	391.0	36.5
38°	1308.0	1312.6	1248.4	1145.8	990.6	842.7	680.1	547.1	427.5	332.7	31.9
39°	1023.9	1020.3	1003.0	907.9	767.4	670.3	551.0	453.6	356.2	280.6	27.0
40°	771.3	777.2	736.8	679.4	597.6	517.8	438.9	361.7	294.6	236.6	21.2
42.5°	375.1	384.2	357.5	342.8	306.6	275.4	232.3	189.7	161.3	139.5	9.5
45°	182.8	177.6	175.3	168.1	159.7	142.7	126.4	108.5	94.8	81.8	5.9
47.5°	93.5	90.9	90.9	88.0	85.1	79.5	71.4	65.5	59.0	50.8	2.3
50°	28.0	27.7	27.4	27.7	26.7	27.7	28.4	28.7	26.1	25.7	0.7
52.5°	11.1	11.4	11.1	12.1	12.1	11.7	12.1	11.7	11.4	10.1	0.0
55°	3.3	3.3	3.3	3.3	3.3	3.3	3.6	3.9	3.6	3.9	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



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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	0.3
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

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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	11.1	11.1	11.1	11.1	11.1	11.1
2.5°	13.0	11.4	9.5	7.8	7.2	6.8
5°	14.0	10.4	7.2	5.5	4.9	4.6
7.5°	15.0	9.5	5.5	3.9	2.9	2.6
10°	15.6	8.1	4.2	2.3	1.6	1.6
12.5°	15.6	6.5	2.9	1.3	1.0	1.0
15°	15.3	5.5	2.0	1.0	0.7	0.7
17.5°	15.0	4.2	1.3	0.7	0.3	0.7
20°	14.0	3.3	0.7	0.3	0.3	0.3
21°	13.7	2.9	0.7	0.3	0.3	0.3
22°	13.0	2.6	0.3	0.0	0.3	0.3
23°	12.4	2.0	0.3	0.0	0.0	0.0
24°	11.4	1.6	0.3	0.0	0.0	0.0
25°	10.8	1.6	0.3	0.0	0.0	0.0
26°	10.1	1.0	0.0	0.0	0.0	0.0
27°	9.1	0.7	0.0	0.0	0.0	0.0
28°	8.5	0.7	0.0	0.0	0.0	0.0
29°	7.5	0.7	0.0	0.0	0.0	0.0
30°	6.5	0.7	0.0	0.0	0.0	0.0
31°	5.2	0.3	0.0	0.0	0.0	0.0
32°	4.2	0.3	0.0	0.0	0.0	0.0
33°	2.9	0.3	0.0	0.0	0.0	0.0
34°	2.0	0.3	0.0	0.0	0.0	0.0
35°	1.6	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	1.3
55°	0.3	0.7	0.7	1.0	1.3	1.6
57.5°	0.3	1.0	1.0	1.3	1.6	1.6
60°	0.7	1.0	1.3	1.3	2.0	2.0
62.5°	0.7	1.3	1.3	1.3	2.0	2.0
65°	0.7	1.3	1.3	1.6	2.0	2.0
67.5°	0.7	1.3	1.3	1.3	1.6	2.0
70°	0.7	1.3	1.0	1.3	1.6	1.6
72.5°	0.7	1.3	1.0	1.0	1.3	1.6
75°	0.7	1.3	1.0	1.0	1.3	1.3
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



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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)