

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: P1339948

Luminaire Tested: P3A09R159730DE010 E3A301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1339948
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: P3A09R159730DE010 E3A301MW
Description: 3in Adjustable LED luminaire with, R15 optic, 3000K CCT AND, 97CRI , E3A301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

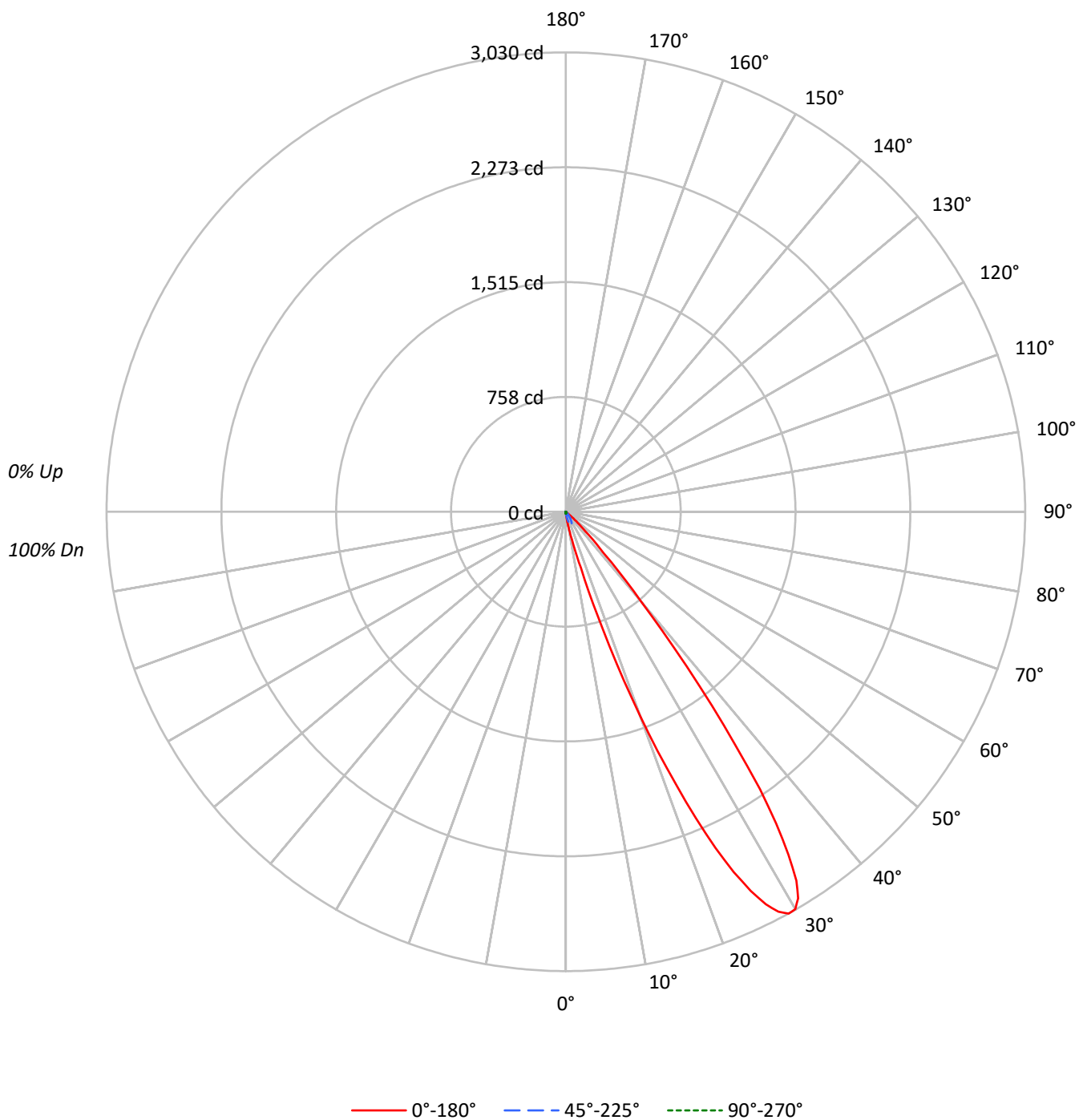
Lumens per Lamp: N/A
Luminaire Lumens: 330.9 lumens
Efficiency: N/A
Efficacy: 29.8 lumens/watt
Spacing Criteria (0/90/45): 2.35 / 0.49 / 1.26
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 11.1
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	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°	2390	2390	2390	2390	2390
5°	5173	3830	2267	1211	991
10°	22934	7237	1781	512	356
15°	86766	16731	1249	227	136
20°	333672	23592	747	70	70
25°	634512	22114	387	0	0
30°	766523	17851	152	0	0
35°	597837	12153	80	0	0
40°	218152	5983	86	0	86
45°	56006	1799	93	0	186
50°	9450	205	102	102	341
55°	1223	0	229	382	612
60°	132	132	439	570	833
65°	156	156	675	830	986
70°	192	192	833	833	1026
75°	254	254	1101	847	1101
80°	0	379	1263	758	1263
85°	0	755	2516	755	755

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 56006 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.5	0.5
10°-20°	25.4	7.7
20°-30°	140.7	42.5
30°-40°	135.9	41.1
40°-50°	23.6	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°	167.5	50.6
0°-40°	303.4	91.7
0°-60°	328.8	99.3
0°-90°	330.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	330.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	11	11	11	11	11	
5°	24	17	10	6	4	5
15°	382	74	6	1	1	170
25°	2622	91	2	0	0	1173
35°	2233	45	0	0	0	1284
45°	181	6	0	0	1	194
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°	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9
2.5°	16.1	15.5	15.8	15.8	15.8	15.8	15.8	15.1	15.1	15.5	13.8
5°	23.5	23.5	23.2	23.5	23.5	23.2	22.5	22.2	22.2	21.6	17.4
7.5°	47.0	46.4	46.4	45.7	42.5	41.5	40.9	39.3	36.4	35.7	22.5
10°	103.0	103.4	101.1	98.2	97.9	93.1	91.4	88.5	83.1	77.6	32.5
12.5°	187.1	182.9	177.4	177.7	168.4	165.2	157.8	149.7	141.3	132.7	53.4
15°	382.2	370.3	377.4	360.0	340.3	318.1	295.6	267.2	243.1	217.3	73.7
17.5°	804.9	816.5	796.9	722.5	676.8	623.0	547.4	474.3	411.8	361.6	90.2
20°	1429.9	1447.0	1380.3	1315.6	1204.5	1083.5	957.2	814.3	677.4	559.0	101.1
21°	1691.0	1680.7	1653.4	1549.7	1421.5	1281.2	1126.6	968.8	803.0	649.1	102.1
22°	1943.5	1948.3	1884.5	1776.0	1642.7	1487.2	1298.5	1103.7	925.0	722.5	100.5
23°	2194.9	2210.4	2126.0	2024.3	1856.5	1681.1	1462.8	1252.5	1031.6	806.6	97.2
24°	2427.7	2417.1	2360.1	2232.0	2052.6	1847.2	1620.5	1365.5	1119.2	878.4	94.7
25°	2622.5	2621.2	2531.7	2407.1	2202.0	1974.4	1724.5	1457.9	1194.2	927.0	91.4
26°	2781.9	2755.8	2685.3	2533.3	2330.8	2090.6	1809.8	1525.2	1236.4	951.5	88.2
27°	2904.9	2886.2	2791.6	2633.5	2421.9	2156.3	1864.6	1558.7	1255.7	959.5	84.0
28°	2987.7	2967.4	2866.6	2703.7	2472.2	2197.5	1893.6	1572.9	1255.7	951.8	80.2
29°	3030.5	3002.8	2902.3	2727.8	2483.8	2202.3	1886.5	1559.0	1236.1	927.9	75.7
30°	3027.3	2992.8	2887.5	2705.9	2449.3	2162.7	1846.9	1509.1	1191.6	892.5	70.5
31°	2975.1	2936.5	2818.9	2631.9	2378.1	2088.0	1772.2	1442.1	1130.8	846.5	65.4
32°	2869.2	2820.2	2705.6	2519.2	2268.7	1976.3	1663.7	1338.8	1039.7	779.2	59.9
33°	2696.6	2647.3	2524.3	2349.5	2120.6	1834.6	1519.7	1227.7	936.0	699.0	55.4
34°	2480.5	2435.5	2329.5	2153.4	1933.8	1655.3	1354.2	1074.1	828.5	619.5	50.6
35°	2233.3	2161.5	2065.5	1926.1	1712.0	1431.8	1175.5	931.2	717.7	536.1	45.4
36°	1898.7	1911.6	1809.8	1639.2	1461.8	1242.2	996.2	776.3	600.2	456.9	40.9
37°	1602.2	1581.9	1517.2	1385.2	1230.6	1012.6	834.9	658.1	504.9	386.4	36.1
38°	1292.4	1296.9	1233.5	1132.1	978.8	832.6	672.0	540.6	422.4	328.7	31.6
39°	1011.7	1008.1	991.1	897.0	758.3	662.3	544.5	448.2	351.9	277.2	26.7
40°	762.1	767.9	728.0	671.3	590.5	511.6	433.7	357.4	291.1	233.8	20.9
42.5°	370.6	379.6	353.2	338.7	303.0	272.1	229.6	187.4	159.4	137.8	9.3
45°	180.6	175.5	173.2	166.1	157.8	141.0	124.9	107.2	93.7	80.8	5.8
47.5°	92.4	89.8	89.8	86.9	84.0	78.6	70.5	64.7	58.3	50.2	2.3
50°	27.7	27.4	27.0	27.4	26.4	27.4	28.0	28.3	25.8	25.4	0.6
52.5°	10.9	11.3	10.9	11.9	11.9	11.6	11.9	11.6	11.3	10.0	0.0
55°	3.2	3.2	3.2	3.2	3.2	3.2	3.5	3.9	3.5	3.9	0.0
57.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	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°	10.9	10.9	10.9	10.9	10.9	10.9
2.5°	12.9	11.3	9.3	7.7	7.1	6.8
5°	13.8	10.3	7.1	5.5	4.8	4.5
7.5°	14.8	9.3	5.5	3.9	2.9	2.6
10°	15.5	8.0	4.2	2.3	1.6	1.6
12.5°	15.5	6.4	2.9	1.3	1.0	1.0
15°	15.1	5.5	1.9	1.0	0.6	0.6
17.5°	14.8	4.2	1.3	0.6	0.3	0.6
20°	13.8	3.2	0.6	0.3	0.3	0.3
21°	13.5	2.9	0.6	0.3	0.3	0.3
22°	12.9	2.6	0.3	0.0	0.3	0.3
23°	12.2	1.9	0.3	0.0	0.0	0.0
24°	11.3	1.6	0.3	0.0	0.0	0.0
25°	10.6	1.6	0.3	0.0	0.0	0.0
26°	10.0	1.0	0.0	0.0	0.0	0.0
27°	9.0	0.6	0.0	0.0	0.0	0.0
28°	8.4	0.6	0.0	0.0	0.0	0.0
29°	7.4	0.6	0.0	0.0	0.0	0.0
30°	6.4	0.6	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°	1.9	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°	0.6	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	0.6
45°	0.0	0.3	0.0	0.0	0.3	0.6
47.5°	0.0	0.3	0.0	0.0	0.6	0.6
50°	0.0	0.3	0.3	0.3	0.6	1.0
52.5°	0.0	0.6	0.3	0.6	1.0	1.3
55°	0.3	0.6	0.6	1.0	1.3	1.6
57.5°	0.3	1.0	1.0	1.3	1.6	1.6
60°	0.6	1.0	1.3	1.3	1.9	1.9
62.5°	0.6	1.3	1.3	1.3	1.9	1.9
65°	0.6	1.3	1.3	1.6	1.9	1.9
67.5°	0.6	1.3	1.3	1.3	1.6	1.9
70°	0.6	1.3	1.0	1.3	1.6	1.6
72.5°	0.6	1.3	1.0	1.0	1.3	1.6
75°	0.6	1.3	1.0	1.0	1.3	1.3
77.5°	0.6	1.0	1.0	0.6	1.0	1.0
80°	0.6	1.0	0.6	0.6	1.0	1.0



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.6	1.0	0.6	0.3	0.6	0.6
85°	0.6	1.0	0.6	0.3	0.3	0.3
87.5°	0.6	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)