

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: P1340014

Luminaire Tested: P3A09R159830DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1340014
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: P3A09R159830DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R15 optic, 3000K CCT AND, 98CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

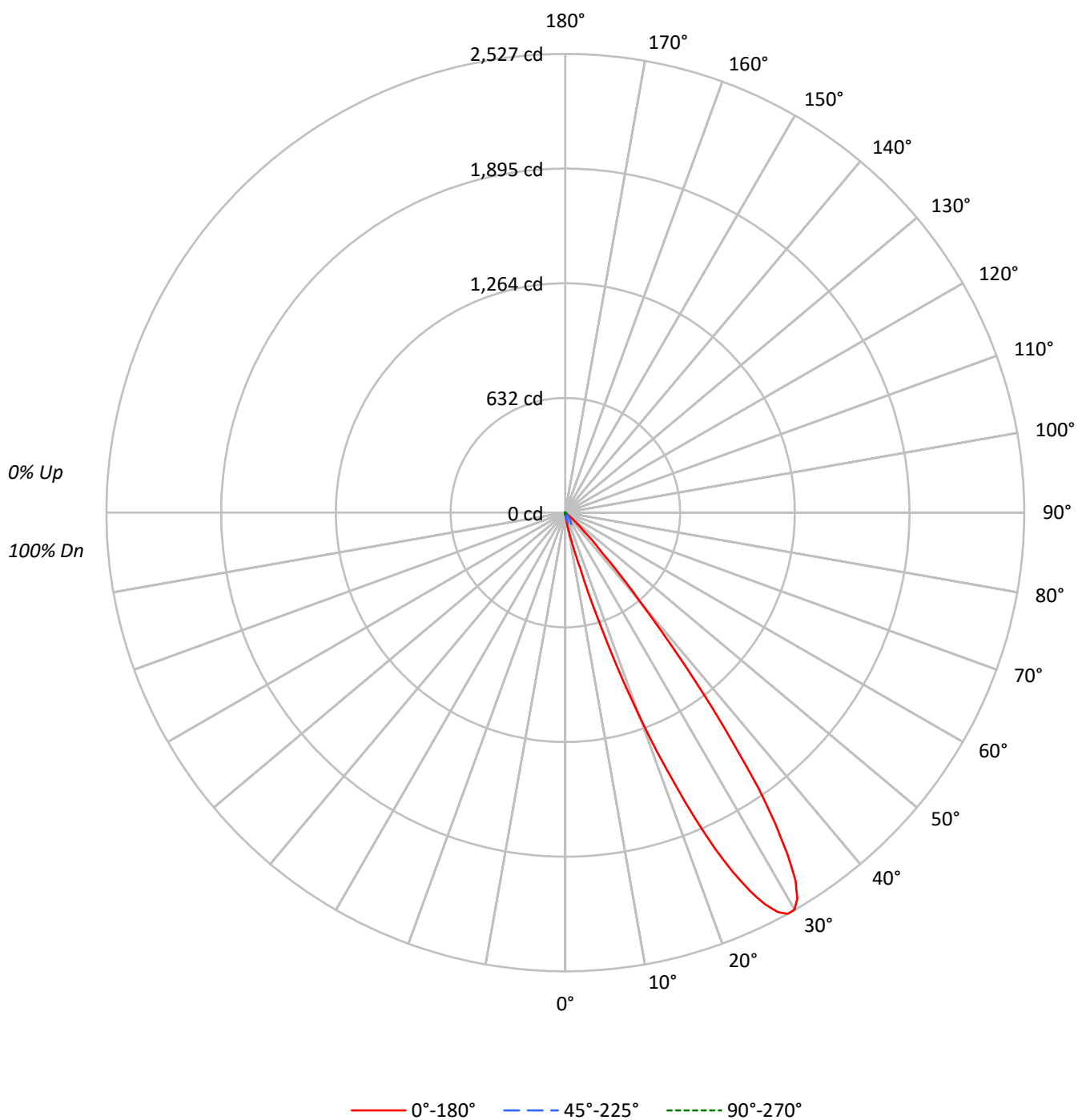
Lumens per Lamp: N/A
Luminaire Lumens: 276.0 lumens
Efficiency: N/A
Efficacy: 25.1 lumens/watt
Spacing Criteria (0/90/45): 2.35 / 0.49 / 1.26
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 11
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	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°	1995	1995	1995	1995	1995
5°	4314	3192	1893	1013	836
10°	19127	6034	1492	423	289
15°	72350	13961	1044	182	114
20°	278228	19672	630	70	70
25°	529095	18437	315	0	0
30°	639136	14888	127	0	0
35°	498497	10146	80	0	0
40°	181912	5009	86	0	86
45°	46703	1489	93	0	155
50°	7880	171	102	102	273
55°	1032	0	191	306	497
60°	132	132	351	482	702
65°	156	156	571	675	830
70°	192	192	705	705	833
75°	254	254	932	678	932
80°	0	379	1010	631	1010
85°	0	755	2013	755	755

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 46703 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.3	0.5
10°-20°	21.1	7.7
20°-30°	117.3	42.5
30°-40°	113.3	41.1
40°-50°	19.7	7.1
50°-60°	1.4	0.5
60°-70°	0.8	0.3
70°-80°	0.7	0.2
80°-90°	0.3	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°	139.7	50.6
0°-40°	253.0	91.7
0°-60°	274.2	99.3
0°-90°	276.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	276.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	9	9	9	9	9	
5°	20	14	9	5	4	4
15°	319	62	5	1	0	142
25°	2187	76	1	0	0	978
35°	1862	38	0	0	0	1071
45°	151	5	0	0	0	162
55°	3	0	0	1	1	5
65°	0	0	1	1	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°	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1
2.5°	13.4	12.9	13.2	13.2	13.2	13.2	13.2	12.6	12.6	12.9	11.5
5°	19.6	19.6	19.3	19.6	19.6	19.3	18.8	18.5	18.5	18.0	14.5
7.5°	39.2	38.7	38.7	38.1	35.4	34.6	34.1	32.8	30.3	29.8	18.8
10°	85.9	86.2	84.3	81.9	81.6	77.6	76.2	73.8	69.3	64.7	27.1
12.5°	156.0	152.5	147.9	148.2	140.4	137.7	131.6	124.8	117.9	110.6	44.6
15°	318.7	308.8	314.7	300.2	283.8	265.3	246.5	222.8	202.7	181.2	61.5
17.5°	671.2	680.9	664.5	602.5	564.3	519.5	456.4	395.5	343.4	301.5	75.2
20°	1192.3	1206.5	1151.0	1097.0	1004.4	903.4	798.2	679.0	564.9	466.1	84.3
21°	1410.0	1401.5	1378.6	1292.2	1185.3	1068.3	939.4	807.9	669.6	541.3	85.1
22°	1620.5	1624.6	1571.4	1480.9	1369.8	1240.1	1082.8	920.3	771.3	602.5	83.8
23°	1830.2	1843.1	1772.8	1687.9	1548.0	1401.7	1219.7	1044.4	860.2	672.5	81.1
24°	2024.3	2015.5	1967.9	1861.1	1711.6	1540.3	1351.3	1138.6	933.2	732.4	78.9
25°	2186.8	2185.7	2111.0	2007.1	1836.1	1646.3	1438.0	1215.7	995.8	772.9	76.2
26°	2319.7	2297.9	2239.1	2112.4	1943.5	1743.2	1509.1	1271.8	1031.0	793.4	73.6
27°	2422.2	2406.6	2327.7	2195.9	2019.5	1798.0	1554.8	1299.7	1047.1	800.1	70.1
28°	2491.2	2474.3	2390.3	2254.4	2061.4	1832.4	1578.9	1311.5	1047.1	793.6	66.9
29°	2526.9	2503.8	2420.1	2274.6	2071.0	1836.4	1573.0	1300.0	1030.7	773.8	63.1
30°	2524.2	2495.5	2407.7	2256.3	2042.3	1803.4	1540.0	1258.4	993.6	744.2	58.8
31°	2480.7	2448.5	2350.5	2194.5	1983.0	1741.1	1477.7	1202.5	942.9	705.8	54.5
32°	2392.4	2351.6	2256.0	2100.6	1891.7	1647.9	1387.2	1116.3	866.9	649.7	49.9
33°	2248.5	2207.4	2104.9	1959.1	1768.2	1529.8	1267.2	1023.7	780.5	582.9	46.2
34°	2068.4	2030.8	1942.4	1795.6	1612.5	1380.2	1129.2	895.6	690.8	516.6	42.2
35°	1862.2	1802.3	1722.3	1606.0	1427.5	1193.9	980.2	776.4	598.4	447.0	37.9
36°	1583.2	1594.0	1509.1	1366.8	1218.9	1035.8	830.7	647.3	500.4	381.0	34.1
37°	1335.9	1319.0	1265.1	1155.0	1026.1	844.4	696.2	548.8	421.0	322.2	30.1
38°	1077.7	1081.4	1028.5	944.0	816.2	694.3	560.3	450.8	352.2	274.1	26.3
39°	843.6	840.6	826.4	748.0	632.3	552.3	454.0	373.7	293.4	231.2	22.3
40°	635.5	640.3	607.0	559.8	492.4	426.6	361.6	298.0	242.7	194.9	17.5
42.5°	309.0	316.5	294.5	282.4	252.6	226.9	191.4	156.3	132.9	114.9	7.8
45°	150.6	146.3	144.4	138.5	131.6	117.6	104.2	89.4	78.1	67.4	4.8
47.5°	77.1	74.9	74.9	72.5	70.1	65.5	58.8	54.0	48.6	41.9	1.9
50°	23.1	22.8	22.6	22.8	22.0	22.8	23.4	23.6	21.5	21.2	0.5
52.5°	9.1	9.4	9.1	9.9	9.9	9.7	9.9	9.7	9.4	8.3	0.0
55°	2.7	2.7	2.7	2.7	2.7	2.7	3.0	3.2	3.0	3.2	0.0
57.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	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°	9.1	9.1	9.1	9.1	9.1	9.1
2.5°	10.7	9.4	7.8	6.4	5.9	5.6
5°	11.5	8.6	5.9	4.6	4.0	3.8
7.5°	12.4	7.8	4.6	3.2	2.4	2.1
10°	12.9	6.7	3.5	1.9	1.3	1.3
12.5°	12.9	5.4	2.4	1.1	0.8	0.8
15°	12.6	4.6	1.6	0.8	0.5	0.5
17.5°	12.4	3.5	1.1	0.5	0.3	0.5
20°	11.5	2.7	0.5	0.3	0.3	0.3
21°	11.3	2.4	0.5	0.3	0.3	0.3
22°	10.7	2.1	0.3	0.0	0.3	0.3
23°	10.2	1.6	0.3	0.0	0.0	0.0
24°	9.4	1.3	0.3	0.0	0.0	0.0
25°	8.9	1.3	0.3	0.0	0.0	0.0
26°	8.3	0.8	0.0	0.0	0.0	0.0
27°	7.5	0.5	0.0	0.0	0.0	0.0
28°	7.0	0.5	0.0	0.0	0.0	0.0
29°	6.2	0.5	0.0	0.0	0.0	0.0
30°	5.4	0.5	0.0	0.0	0.0	0.0
31°	4.3	0.3	0.0	0.0	0.0	0.0
32°	3.5	0.3	0.0	0.0	0.0	0.0
33°	2.4	0.3	0.0	0.0	0.0	0.0
34°	1.6	0.3	0.0	0.0	0.0	0.0
35°	1.3	0.3	0.0	0.0	0.0	0.0
36°	0.8	0.3	0.0	0.0	0.0	0.3
37°	0.8	0.3	0.0	0.0	0.0	0.3
38°	0.5	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	0.5
45°	0.0	0.3	0.0	0.0	0.3	0.5
47.5°	0.0	0.3	0.0	0.0	0.5	0.5
50°	0.0	0.3	0.3	0.3	0.5	0.8
52.5°	0.0	0.5	0.3	0.5	0.8	1.1
55°	0.3	0.5	0.5	0.8	1.1	1.3
57.5°	0.3	0.8	0.8	1.1	1.3	1.3
60°	0.5	0.8	1.1	1.1	1.6	1.6
62.5°	0.5	1.1	1.1	1.1	1.6	1.6
65°	0.5	1.1	1.1	1.3	1.6	1.6
67.5°	0.5	1.1	1.1	1.1	1.3	1.6
70°	0.5	1.1	0.8	1.1	1.3	1.3
72.5°	0.5	1.1	0.8	0.8	1.1	1.3
75°	0.5	1.1	0.8	0.8	1.1	1.1
77.5°	0.5	0.8	0.8	0.5	0.8	0.8
80°	0.5	0.8	0.5	0.5	0.8	0.8



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.5	0.8	0.5	0.3	0.5	0.5
85°	0.5	0.8	0.5	0.3	0.3	0.3
87.5°	0.5	0.8	0.3	0.0	0.0	0.3
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)