

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: P1340482

Luminaire Tested: P3A09R209740DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1340482
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-60)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A09R209740DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R20 optic, 4000K CCT AND, 97CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

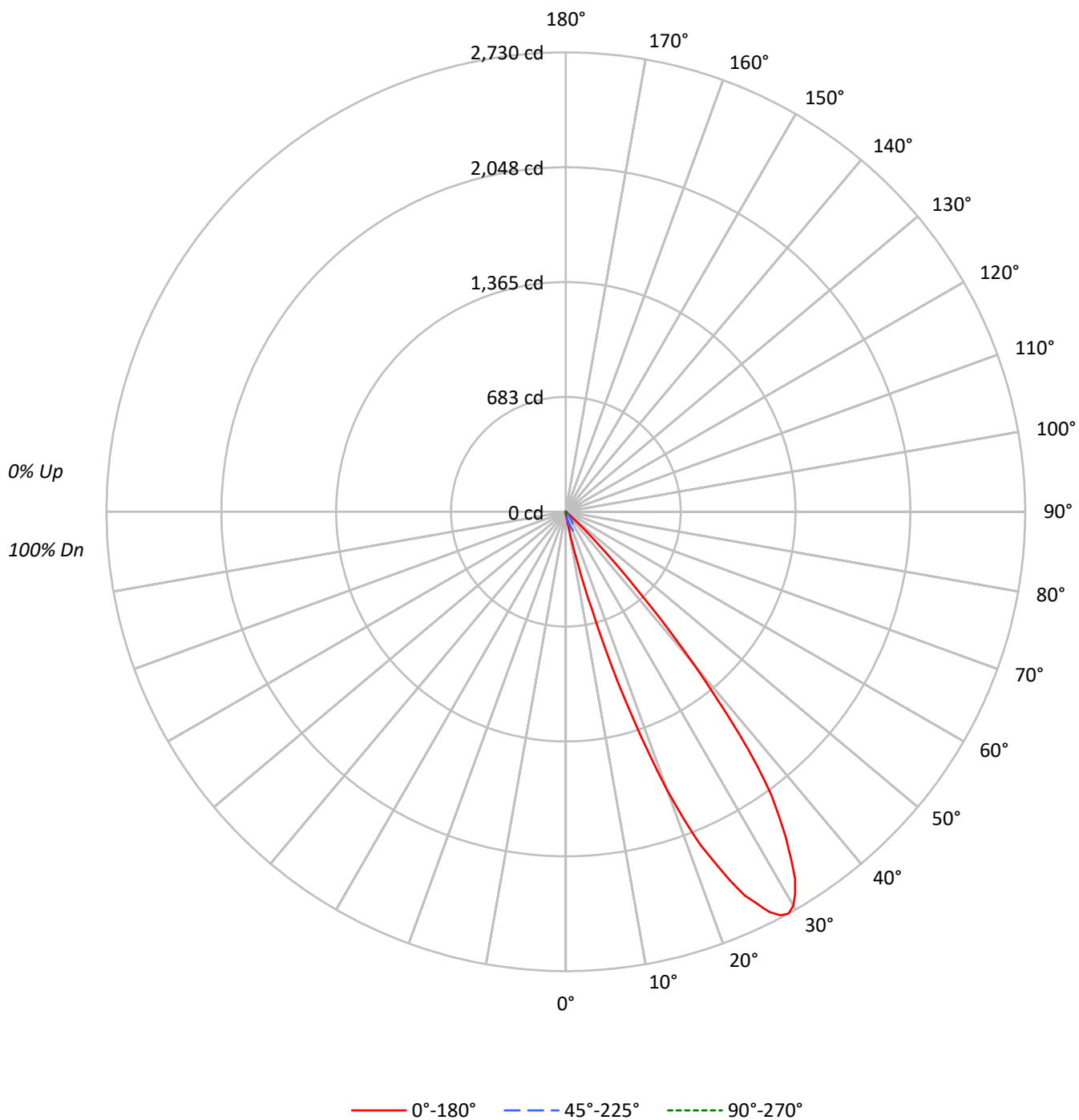
Lumens per Lamp: N/A
Luminaire Lumens: 382.9 lumens
Efficiency: N/A
Efficacy: 34.5 lumens/watt
Spacing Criteria (0/90/45): 2.3 / 0.53 / 1.19
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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
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	76	71	79	74	71	77	73	70	68		
5	87	77	70	65	85	76	70	65	74	69	64	72	68	64	71	67	63	61		
6	81	71	64	59	80	70	63	58	68	62	58	67	62	58	65	61	57	55		
7	76	65	58	53	74	64	57	53	63	57	52	62	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	43	41		
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	2895	2895	2895	2895	2895
5°	6648	4975	2751	1673	1453
10°	20975	8662	2249	935	690
15°	135824	16005	1657	318	68
20°	409956	27396	1143	0	0
25°	608842	27655	677	0	0
30°	684662	21016	253	0	0
35°	590743	12555	187	0	0
40°	340180	4265	0	0	0
45°	82985	1737	93	0	93
50°	9961	478	102	102	341
55°	1338	0	268	268	535
60°	132	0	439	439	746
65°	156	156	726	726	1090
70°	192	192	898	898	1090
75°	0	254	1186	847	1186
80°	0	379	1263	884	1263
85°	0	755	2516	755	755

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°

Vertical Angle: 45°

Luminance: 83513 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.8	0.5
10°-20°	35.5	9.3
20°-30°	154.7	40.4
30°-40°	155.8	40.7
40°-50°	31.2	8.2
50°-60°	1.6	0.4
60°-70°	1.0	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°	192.0	50.1
0°-40°	347.8	90.8
0°-60°	380.6	99.4
0°-90°	382.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	382.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	13	13	13	13	13	
5°	30	23	12	8	7	5
15°	598	70	7	1	0	234
25°	2516	114	3	0	0	1135
35°	2207	47	1	0	0	1313
45°	268	6	0	0	0	291
55°	4	0	1	1	1	6
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°	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2
2.5°	19.8	19.8	19.5	19.5	19.1	19.5	18.8	19.1	19.1	18.8	17.0
5°	30.2	30.9	30.6	30.6	30.2	30.6	29.9	29.2	28.5	28.5	22.6
7.5°	49.7	49.3	48.6	49.0	48.0	47.3	46.6	46.2	44.1	43.1	29.5
10°	94.2	96.2	94.5	94.2	87.9	87.6	83.4	77.5	72.3	69.5	38.9
12.5°	259.2	270.3	253.0	244.6	239.8	221.0	213.0	192.5	172.7	157.8	49.3
15°	598.3	625.8	590.7	593.1	563.9	510.4	463.5	423.2	375.6	327.7	70.5
17.5°	1172.4	1150.1	1131.0	1098.7	1039.3	960.8	859.6	757.1	668.5	575.8	98.3
20°	1756.8	1737.0	1693.6	1623.0	1547.3	1430.9	1310.7	1156.7	1007.7	868.0	117.4
21°	1958.0	1951.4	1880.2	1836.7	1720.0	1608.8	1470.2	1305.5	1137.6	972.2	120.6
22°	2137.6	2098.0	2059.8	1995.5	1879.5	1758.6	1604.3	1430.9	1248.8	1065.0	120.9
23°	2262.0	2244.0	2207.8	2135.2	2019.9	1877.7	1715.1	1533.7	1341.9	1130.7	119.9
24°	2399.6	2376.7	2323.9	2239.1	2122.7	1982.3	1796.8	1616.8	1408.3	1185.9	117.1
25°	2516.4	2480.6	2418.1	2326.7	2199.5	2054.6	1868.0	1670.3	1454.5	1223.1	114.3
26°	2592.1	2572.7	2492.4	2393.0	2256.8	2107.4	1917.0	1711.3	1484.4	1240.1	109.8
27°	2671.0	2635.2	2556.3	2442.0	2294.4	2141.8	1944.8	1731.1	1494.8	1240.8	104.2
28°	2716.2	2677.3	2588.0	2467.7	2318.7	2160.9	1960.8	1737.4	1492.7	1230.1	97.6
29°	2730.4	2681.4	2594.2	2471.9	2324.6	2162.3	1958.4	1728.3	1474.3	1203.6	90.0
30°	2704.0	2654.0	2571.3	2452.1	2305.8	2144.9	1935.8	1698.4	1441.7	1165.8	83.0
31°	2646.3	2604.0	2524.0	2404.5	2264.1	2104.3	1884.7	1649.4	1386.1	1115.0	75.1
32°	2570.2	2528.6	2450.0	2342.0	2199.1	2037.9	1814.8	1573.0	1320.7	1039.3	67.1
33°	2455.9	2432.0	2361.4	2258.2	2115.4	1943.1	1721.0	1481.6	1227.6	955.2	60.1
34°	2340.2	2310.0	2260.7	2147.7	1994.1	1822.1	1598.7	1355.5	1114.0	861.0	53.5
35°	2206.8	2188.7	2111.2	2020.9	1866.6	1690.8	1468.8	1232.8	981.6	756.1	46.9
36°	2077.5	2049.7	1961.5	1865.9	1716.2	1526.1	1306.8	1085.2	867.3	657.8	40.0
37°	1889.9	1847.5	1784.6	1683.8	1508.7	1346.8	1146.7	941.0	726.6	551.4	32.3
38°	1669.3	1649.4	1562.2	1460.8	1315.9	1162.3	964.2	789.8	599.4	460.4	24.7
39°	1409.0	1408.7	1325.3	1251.9	1110.2	971.9	793.3	641.1	494.8	370.8	19.1
40°	1188.4	1147.4	1095.9	1003.8	895.1	777.6	621.3	501.7	384.0	298.8	14.9
42.5°	623.0	619.5	589.3	520.2	459.4	390.2	310.3	258.5	202.2	164.7	9.4
45°	267.6	269.3	248.4	238.0	214.4	185.5	156.7	130.6	111.9	90.7	5.6
47.5°	67.8	65.0	64.3	66.7	66.7	64.6	58.0	54.6	50.4	46.2	3.1
50°	29.2	28.5	27.8	27.8	26.1	25.0	23.3	21.2	19.5	17.4	1.4
52.5°	10.8	11.1	11.5	11.1	11.1	10.8	10.8	10.4	9.4	8.3	0.7
55°	3.5	3.5	3.5	3.8	3.8	4.2	4.2	4.2	4.2	3.8	0.0
57.5°	0.7	0.7	1.0	1.0	1.0	1.0	1.0	1.0	1.4	1.4	0.0
60°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0
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	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
75°	0.0	0.0	0.0	0.3	0.0	0.3	0.3	0.0	0.3	0.3	0.3
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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°	13.2	13.2	13.2	13.2	13.2	13.2
2.5°	15.3	13.6	11.5	9.7	9.4	9.0
5°	17.0	12.5	9.4	7.6	6.9	6.6
7.5°	18.4	11.5	7.6	5.6	4.9	4.5
10°	19.1	10.1	6.3	4.2	3.1	3.1
12.5°	19.5	8.7	4.5	2.8	1.7	1.7
15°	19.1	7.3	3.5	1.4	0.3	0.3
17.5°	17.4	5.9	2.1	0.3	0.0	0.0
20°	14.9	4.9	1.4	0.0	0.0	0.0
21°	14.2	4.2	1.0	0.0	0.0	0.0
22°	13.2	3.8	0.7	0.0	0.0	0.0
23°	12.2	3.5	0.7	0.0	0.0	0.0
24°	11.1	3.1	0.3	0.0	0.0	0.0
25°	10.4	2.8	0.3	0.0	0.0	0.0
26°	9.7	2.4	0.3	0.0	0.0	0.0
27°	8.7	2.1	0.0	0.0	0.0	0.0
28°	8.0	1.7	0.0	0.0	0.0	0.0
29°	6.9	1.4	0.0	0.0	0.0	0.0
30°	5.9	1.0	0.0	0.0	0.0	0.0
31°	4.9	1.0	0.0	0.0	0.0	0.0
32°	4.2	0.7	0.0	0.0	0.0	0.0
33°	3.5	0.7	0.0	0.0	0.0	0.0
34°	3.1	0.7	0.0	0.0	0.0	0.0
35°	2.8	0.7	0.0	0.0	0.0	0.0
36°	2.1	0.3	0.0	0.0	0.0	0.0
37°	1.7	0.3	0.0	0.0	0.0	0.0
38°	1.4	0.3	0.0	0.0	0.0	0.0
39°	1.0	0.0	0.0	0.0	0.0	0.0
40°	1.0	0.0	0.0	0.0	0.0	0.0
42.5°	0.3	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.3	0.0	0.0	0.3	0.3
47.5°	0.0	0.3	0.0	0.0	0.3	0.7
50°	0.0	0.3	0.3	0.3	0.7	1.0
52.5°	0.0	0.7	0.3	0.3	1.0	1.0
55°	0.3	0.7	0.3	0.7	1.4	1.4
57.5°	0.3	0.7	0.7	1.0	1.4	1.7
60°	0.7	1.0	1.0	1.0	1.7	1.7
62.5°	0.7	1.0	1.4	1.4	1.7	2.1
65°	0.7	1.4	1.4	1.4	1.7	2.1
67.5°	1.0	1.4	1.4	1.4	1.7	2.1
70°	1.0	1.4	1.4	1.4	1.7	1.7
72.5°	1.0	1.4	1.0	1.4	1.4	1.7
75°	1.0	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



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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	0.7	0.3	0.0	0.3
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)