

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: P1340030

Luminaire Tested: P3A09R159835DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1340030
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: P3A09R159835DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R15 optic, 3500K CCT AND, 98CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

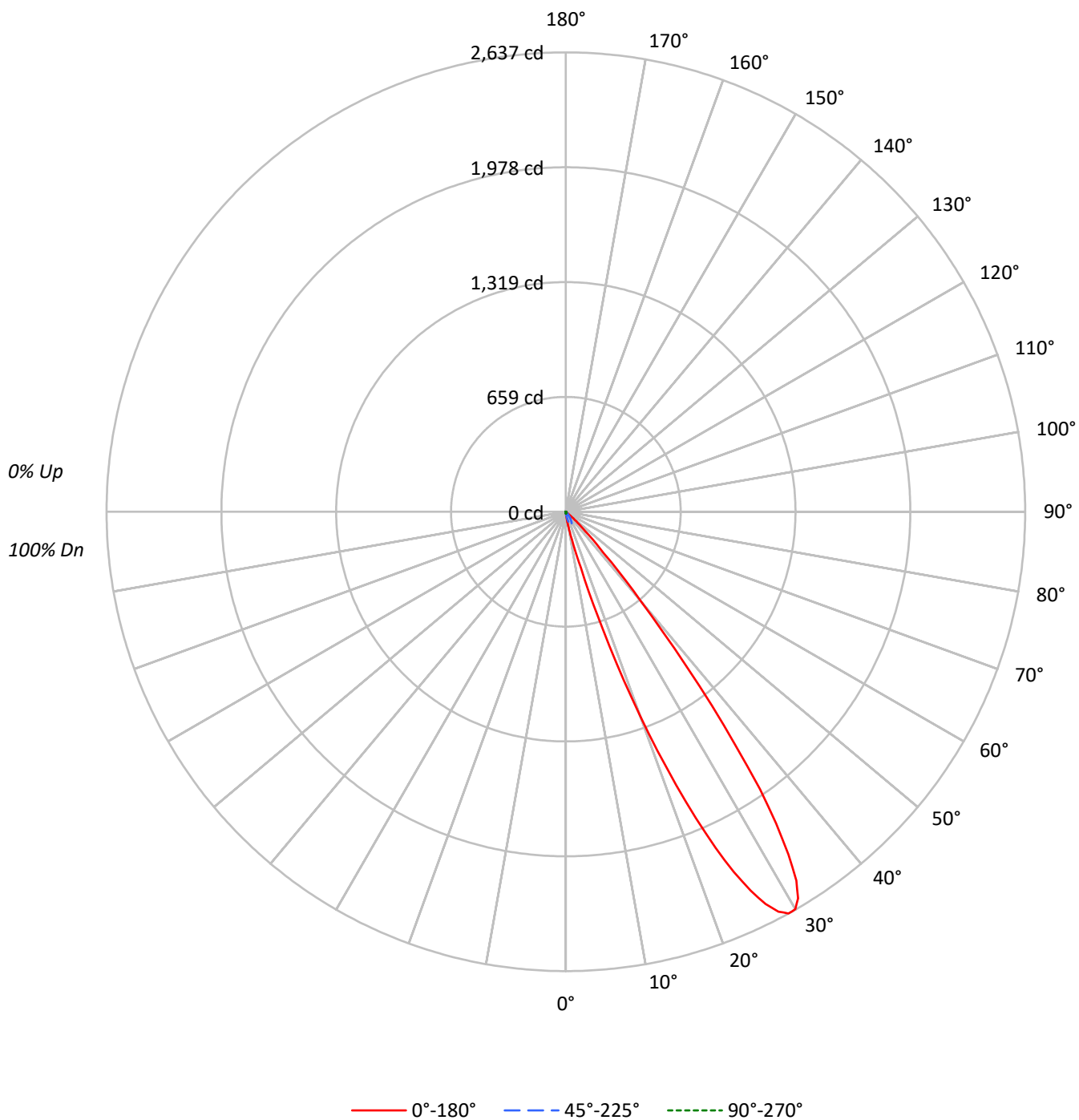
Lumens per Lamp: N/A
Luminaire Lumens: 288.0 lumens
Efficiency: N/A
Efficacy: 26.2 lumens/watt
Spacing Criteria (0/90/45): 2.35 / 0.49 / 1.26
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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	102	102	100
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	93	93	92
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	85	85	83
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	77	77	75
4	93	84	78	73	91	83	77	72	81	75	71	79	74	70	77	73	70	70	70	68
5	87	77	70	65	85	76	70	65	74	69	64	72	67	64	71	66	63	63	63	61
6	81	71	64	59	80	70	63	58	68	62	58	67	61	57	65	61	57	57	57	55
7	76	65	58	53	74	64	57	53	63	57	52	61	56	52	60	55	52	52	52	50
8	71	60	53	48	70	59	52	47	58	52	47	57	51	47	56	51	47	47	47	45
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	51	46	42	42	42	41
10	62	51	44	39	61	50	43	39	49	43	39	48	43	39	47	42	39	39	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	2083	2083	2083	2083	2083
5°	4512	3324	1981	1057	858
10°	19951	6301	1559	445	312
15°	75483	14574	1090	182	136
20°	290339	20535	653	70	70
25°	552080	19259	339	0	0
30°	666938	15547	152	0	0
35°	520153	10574	80	0	0
40°	189813	5210	86	0	86
45°	48749	1551	93	0	186
50°	8221	205	102	102	273
55°	1070	0	229	306	535
60°	132	132	351	482	746
65°	156	156	571	726	882
70°	192	192	705	705	898
75°	254	254	932	678	932
80°	0	379	1010	758	1010
85°	0	755	2013	755	755

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 48749 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.3	0.5
10°-20°	22.1	7.7
20°-30°	122.4	42.5
30°-40°	118.3	41.1
40°-50°	20.6	7.1
50°-60°	1.5	0.5
60°-70°	0.9	0.3
70°-80°	0.7	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°	145.8	50.6
0°-40°	264.0	91.7
0°-60°	286.1	99.3
0°-90°	288.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	288.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	10	10	10	10	10	
5°	20	15	9	5	4	4
15°	332	64	5	1	1	148
25°	2282	80	1	0	0	1020
35°	1943	40	0	0	0	1118
45°	157	5	0	0	1	169
55°	3	0	1	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°	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5
2.5°	14.0	13.4	13.7	13.7	13.7	13.7	13.7	13.2	13.2	13.4	12.0
5°	20.5	20.5	20.2	20.5	20.5	20.2	19.6	19.3	19.3	18.8	15.1
7.5°	40.9	40.3	40.3	39.8	37.0	36.1	35.6	34.2	31.7	31.1	19.6
10°	89.6	89.9	88.0	85.4	85.2	81.0	79.6	77.0	72.3	67.5	28.3
12.5°	162.8	159.1	154.4	154.6	146.5	143.7	137.3	130.3	123.0	115.4	46.5
15°	332.5	322.2	328.3	313.2	296.1	276.8	257.2	232.5	211.5	189.1	64.2
17.5°	700.4	710.5	693.4	628.7	588.9	542.1	476.3	412.7	358.3	314.6	78.4
20°	1244.2	1259.0	1201.0	1144.7	1048.0	942.7	832.9	708.5	589.4	486.3	88.0
21°	1471.4	1462.4	1438.6	1348.4	1236.9	1114.7	980.3	843.0	698.7	564.8	88.8
22°	1691.0	1695.2	1639.7	1545.3	1429.3	1294.0	1129.9	960.4	804.9	628.7	87.4
23°	1909.8	1923.2	1849.8	1761.3	1615.4	1462.7	1272.7	1089.8	897.6	701.8	84.6
24°	2112.3	2103.1	2053.5	1942.0	1786.0	1607.2	1410.0	1188.1	973.8	764.3	82.4
25°	2281.8	2280.7	2202.8	2094.4	1916.0	1717.9	1500.5	1268.5	1039.1	806.6	79.6
26°	2420.5	2397.8	2336.5	2204.2	2028.0	1819.0	1574.7	1327.1	1075.8	827.8	76.8
27°	2527.5	2511.3	2428.9	2291.4	2107.3	1876.2	1622.4	1356.2	1092.6	834.9	73.1
28°	2599.5	2581.9	2494.2	2352.4	2151.0	1912.0	1647.6	1368.5	1092.6	828.1	69.8
29°	2636.8	2612.7	2525.3	2373.4	2161.1	1916.2	1641.4	1356.5	1075.5	807.4	65.8
30°	2634.0	2604.0	2512.4	2354.4	2131.1	1881.8	1606.9	1313.1	1036.8	776.6	61.4
31°	2588.6	2555.0	2452.7	2290.0	2069.2	1816.8	1542.0	1254.8	983.9	736.5	56.9
32°	2496.4	2453.8	2354.1	2191.9	1973.9	1719.6	1447.5	1164.9	904.6	678.0	52.1
33°	2346.3	2303.4	2196.4	2044.3	1845.1	1596.3	1322.3	1068.2	814.4	608.2	48.2
34°	2158.3	2119.1	2026.9	1873.7	1682.6	1440.3	1178.3	934.6	720.8	539.0	44.0
35°	1943.1	1880.7	1797.2	1675.9	1489.6	1245.8	1022.8	810.2	624.5	466.5	39.5
36°	1652.1	1663.3	1574.7	1426.3	1271.9	1080.8	866.8	675.4	522.2	397.5	35.6
37°	1394.0	1376.4	1320.1	1205.2	1070.7	881.1	726.4	572.6	439.3	336.2	31.4
38°	1124.5	1128.5	1073.3	985.0	851.7	724.5	584.7	470.4	367.6	286.0	27.5
39°	880.2	877.2	862.3	780.5	659.8	576.3	473.7	390.0	306.2	241.2	23.3
40°	663.1	668.2	633.4	584.1	513.8	445.2	377.4	311.0	253.3	203.4	18.2
42.5°	322.5	330.3	307.3	294.7	263.6	236.7	199.7	163.0	138.7	119.9	8.1
45°	157.2	152.7	150.7	144.6	137.3	122.7	108.7	93.3	81.5	70.3	5.0
47.5°	80.4	78.2	78.2	75.6	73.1	68.4	61.4	56.3	50.7	43.7	2.0
50°	24.1	23.8	23.5	23.8	23.0	23.8	24.4	24.7	22.4	22.1	0.6
52.5°	9.5	9.8	9.5	10.4	10.4	10.1	10.4	10.1	9.8	8.7	0.0
55°	2.8	2.8	2.8	2.8	2.8	2.8	3.1	3.4	3.1	3.4	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°	9.5	9.5	9.5	9.5	9.5	9.5
2.5°	11.2	9.8	8.1	6.7	6.2	5.9
5°	12.0	9.0	6.2	4.8	4.2	3.9
7.5°	12.9	8.1	4.8	3.4	2.5	2.2
10°	13.4	7.0	3.6	2.0	1.4	1.4
12.5°	13.4	5.6	2.5	1.1	0.8	0.8
15°	13.2	4.8	1.7	0.8	0.6	0.6
17.5°	12.9	3.6	1.1	0.6	0.3	0.6
20°	12.0	2.8	0.6	0.3	0.3	0.3
21°	11.8	2.5	0.6	0.3	0.3	0.3
22°	11.2	2.2	0.3	0.0	0.3	0.3
23°	10.6	1.7	0.3	0.0	0.0	0.0
24°	9.8	1.4	0.3	0.0	0.0	0.0
25°	9.2	1.4	0.3	0.0	0.0	0.0
26°	8.7	0.8	0.0	0.0	0.0	0.0
27°	7.8	0.6	0.0	0.0	0.0	0.0
28°	7.3	0.6	0.0	0.0	0.0	0.0
29°	6.4	0.6	0.0	0.0	0.0	0.0
30°	5.6	0.6	0.0	0.0	0.0	0.0
31°	4.5	0.3	0.0	0.0	0.0	0.0
32°	3.6	0.3	0.0	0.0	0.0	0.0
33°	2.5	0.3	0.0	0.0	0.0	0.0
34°	1.7	0.3	0.0	0.0	0.0	0.0
35°	1.4	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°	0.6	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	0.8
52.5°	0.0	0.6	0.3	0.6	0.8	1.1
55°	0.3	0.6	0.6	0.8	1.1	1.4
57.5°	0.3	0.8	0.8	1.1	1.4	1.4
60°	0.6	0.8	1.1	1.1	1.7	1.7
62.5°	0.6	1.1	1.1	1.1	1.7	1.7
65°	0.6	1.1	1.1	1.4	1.7	1.7
67.5°	0.6	1.1	1.1	1.1	1.4	1.7
70°	0.6	1.1	0.8	1.1	1.4	1.4
72.5°	0.6	1.1	0.8	0.8	1.1	1.4
75°	0.6	1.1	0.8	0.8	1.1	1.1
77.5°	0.6	0.8	0.8	0.6	0.8	0.8
80°	0.6	0.8	0.6	0.6	0.8	0.8



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.6	0.8	0.6	0.3	0.6	0.6
85°	0.6	0.8	0.6	0.3	0.3	0.3
87.5°	0.6	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)