

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: P1336359

Luminaire Tested: P3A05R159040DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1336359
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: P3A05R159040DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R15 optic, 4000K CCT AND, 90CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

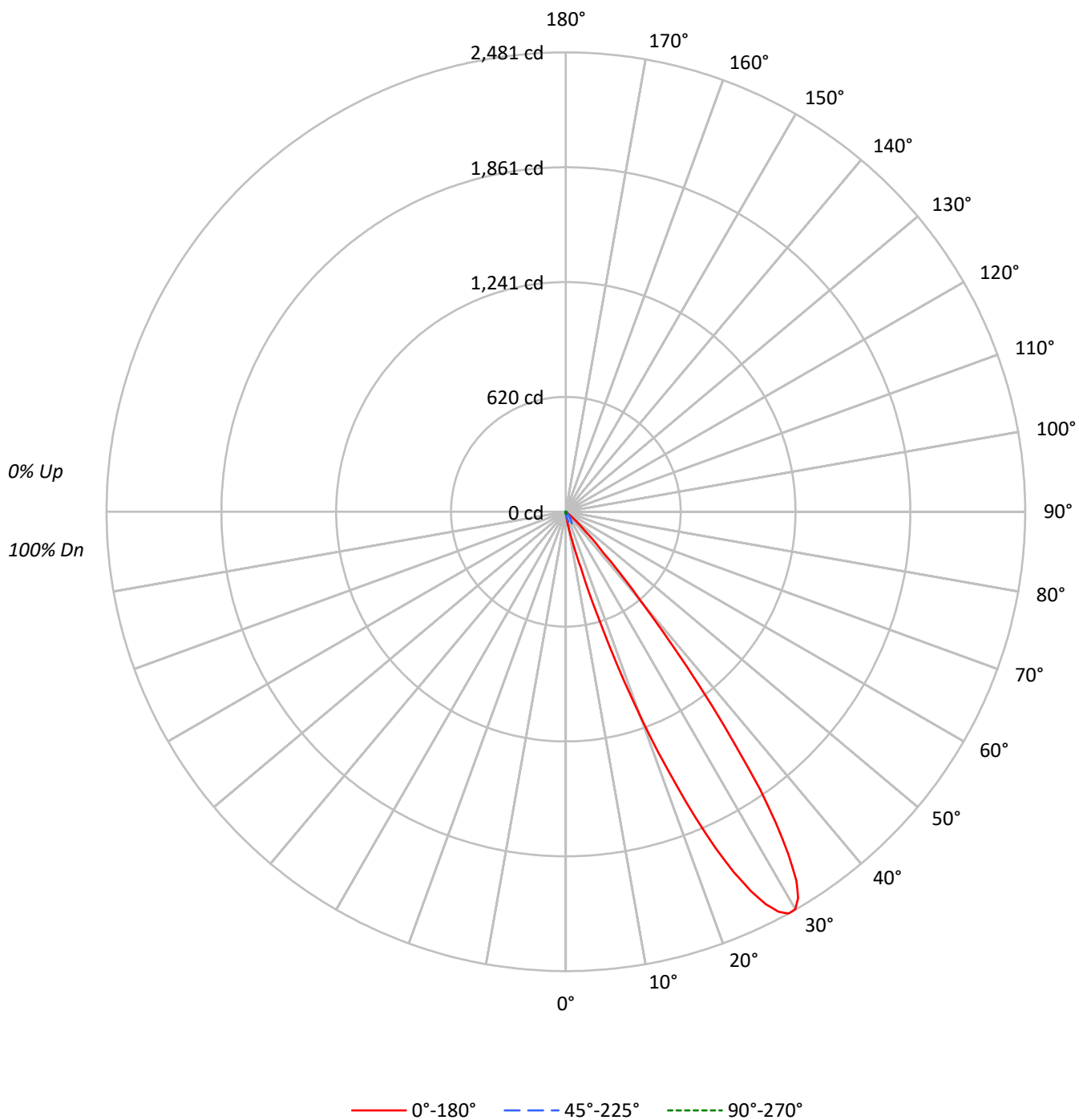
Lumens per Lamp: N/A
Luminaire Lumens: 271.1 lumens
Efficiency: N/A
Efficacy: 37.6 lumens/watt
Spacing Criteria (0/90/45): 2.35 / 0.49 / 1.26
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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
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	98	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	52	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°	1974	1974	1974	1974	1974
5°	4226	3126	1849	991	814
10°	18793	5923	1470	401	289
15°	71033	13712	1022	182	114
20°	273187	19322	607	70	70
25°	519490	18122	315	0	0
30°	627565	14610	127	0	0
35°	489449	9958	80	0	0
40°	178620	4895	86	0	86
45°	45865	1458	93	0	155
50°	7744	171	102	102	273
55°	994	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: 45865 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.2	0.5
10°-20°	20.8	7.7
20°-30°	115.2	42.5
30°-40°	111.3	41.1
40°-50°	19.4	7.1
50°-60°	1.4	0.5
60°-70°	0.8	0.3
70°-80°	0.7	0.3
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°	137.2	50.6
0°-40°	248.4	91.7
0°-60°	269.2	99.3
0°-90°	271.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	271.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	9	9	9	9	9	
5°	19	14	8	4	4	4
15°	313	60	4	1	0	139
25°	2147	75	1	0	0	960
35°	1828	37	0	0	0	1052
45°	148	5	0	0	0	159
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°	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0
2.5°	13.2	12.7	12.9	12.9	12.9	12.9	12.9	12.4	12.4	12.7	11.3
5°	19.2	19.2	19.0	19.2	19.2	19.0	18.5	18.2	18.2	17.7	14.2
7.5°	38.5	38.0	38.0	37.4	34.8	34.0	33.5	32.2	29.8	29.3	18.5
10°	84.4	84.6	82.8	80.4	80.1	76.2	74.9	72.5	68.0	63.5	26.6
12.5°	153.2	149.7	145.3	145.5	137.9	135.2	129.2	122.6	115.7	108.6	43.8
15°	312.9	303.2	309.0	294.7	278.6	260.5	242.0	218.8	199.0	177.9	60.4
17.5°	659.0	668.5	652.4	591.6	554.1	510.1	448.1	388.3	337.2	296.0	73.8
20°	1170.7	1184.7	1130.1	1077.1	986.2	887.1	783.7	666.7	554.6	457.6	82.8
21°	1384.5	1376.1	1353.7	1268.8	1163.9	1048.9	922.4	793.2	657.5	531.4	83.6
22°	1591.2	1595.1	1542.9	1454.1	1345.0	1217.6	1063.2	903.7	757.4	591.6	82.2
23°	1797.1	1809.7	1740.6	1657.3	1520.0	1376.3	1197.6	1025.5	844.6	660.4	79.6
24°	1987.7	1979.0	1932.3	1827.4	1680.5	1512.4	1326.8	1118.0	916.3	719.1	77.5
25°	2147.1	2146.1	2072.8	1970.8	1802.9	1616.5	1411.9	1193.6	977.7	758.9	74.9
26°	2277.6	2256.3	2198.5	2074.1	1908.3	1711.7	1481.8	1248.7	1012.3	779.0	72.2
27°	2378.3	2363.0	2285.5	2156.1	1982.9	1765.4	1526.6	1276.2	1028.1	785.6	68.8
28°	2446.1	2429.5	2347.0	2213.6	2024.0	1799.2	1550.3	1287.8	1028.1	779.2	65.6
29°	2481.1	2458.5	2376.2	2233.3	2033.5	1803.1	1544.5	1276.4	1012.0	759.7	61.9
30°	2478.5	2450.3	2364.1	2215.4	2005.3	1770.7	1512.1	1235.6	975.6	730.7	57.7
31°	2435.8	2404.2	2307.9	2154.8	1947.1	1709.5	1450.9	1180.7	925.8	693.0	53.5
32°	2349.1	2309.0	2215.2	2062.5	1857.4	1618.1	1362.1	1096.1	851.2	637.9	49.0
33°	2207.8	2167.4	2066.7	1923.6	1736.2	1502.1	1244.3	1005.2	766.3	572.3	45.3
34°	2030.9	1994.0	1907.3	1763.1	1583.3	1355.2	1108.8	879.4	678.3	507.2	41.4
35°	1828.4	1769.6	1691.1	1576.9	1401.6	1172.3	962.5	762.4	587.6	438.9	37.2
36°	1554.5	1565.1	1481.8	1342.1	1196.8	1017.0	815.6	635.6	491.4	374.1	33.5
37°	1311.7	1295.1	1242.2	1134.1	1007.5	829.1	683.6	538.8	413.3	316.3	29.5
38°	1058.2	1061.8	1009.9	926.9	801.4	681.7	550.2	442.6	345.9	269.2	25.8
39°	828.3	825.4	811.4	734.4	620.8	542.3	445.8	367.0	288.1	227.0	21.9
40°	624.0	628.7	596.0	549.6	483.5	418.9	355.1	292.6	238.3	191.4	17.1
42.5°	303.4	310.8	289.2	277.3	248.1	222.8	188.0	153.4	130.5	112.8	7.6
45°	147.9	143.7	141.8	136.0	129.2	115.5	102.3	87.8	76.7	66.2	4.7
47.5°	75.7	73.5	73.5	71.2	68.8	64.3	57.7	53.0	47.7	41.1	1.8
50°	22.7	22.4	22.1	22.4	21.6	22.4	22.9	23.2	21.1	20.8	0.5
52.5°	9.0	9.2	9.0	9.8	9.8	9.5	9.8	9.5	9.2	8.2	0.0
55°	2.6	2.6	2.6	2.6	2.6	2.6	2.9	3.2	2.9	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°	9.0	9.0	9.0	9.0	9.0	9.0
2.5°	10.5	9.2	7.6	6.3	5.8	5.5
5°	11.3	8.4	5.8	4.5	4.0	3.7
7.5°	12.1	7.6	4.5	3.2	2.4	2.1
10°	12.7	6.6	3.4	1.8	1.3	1.3
12.5°	12.7	5.3	2.4	1.1	0.8	0.8
15°	12.4	4.5	1.6	0.8	0.5	0.5
17.5°	12.1	3.4	1.1	0.5	0.3	0.5
20°	11.3	2.6	0.5	0.3	0.3	0.3
21°	11.1	2.4	0.5	0.3	0.3	0.3
22°	10.5	2.1	0.3	0.0	0.3	0.3
23°	10.0	1.6	0.3	0.0	0.0	0.0
24°	9.2	1.3	0.3	0.0	0.0	0.0
25°	8.7	1.3	0.3	0.0	0.0	0.0
26°	8.2	0.8	0.0	0.0	0.0	0.0
27°	7.4	0.5	0.0	0.0	0.0	0.0
28°	6.9	0.5	0.0	0.0	0.0	0.0
29°	6.1	0.5	0.0	0.0	0.0	0.0
30°	5.3	0.5	0.0	0.0	0.0	0.0
31°	4.2	0.3	0.0	0.0	0.0	0.0
32°	3.4	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)