

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: P1339966

Luminaire Tested: P3A09R159735DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1339966
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: P3A09R159735DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R15 optic, 3500K CCT AND, 97CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

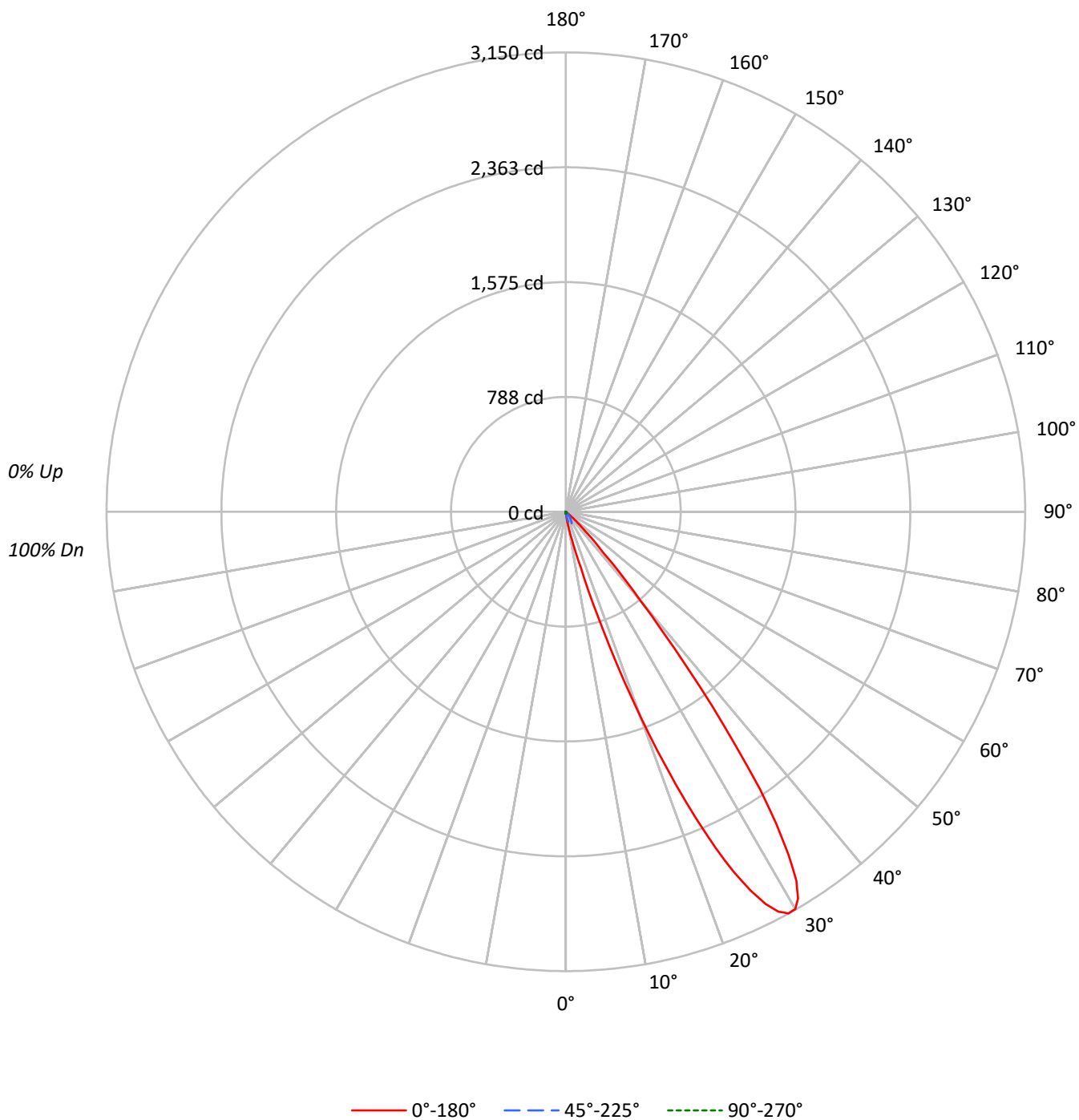
Lumens per Lamp: N/A
Luminaire Lumens: 344.0 lumens
Efficiency: N/A
Efficacy: 31.0 lumens/watt
Spacing Criteria (0/90/45): 2.35 / 0.49 / 1.26
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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
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°	2500	2500	2500	2500	2500
5°	5371	3984	2355	1255	1035
10°	23847	7526	1870	512	379
15°	90171	17389	1294	227	159
20°	346787	24525	770	70	70
25°	659433	22985	411	0	0
30°	796604	18560	177	0	0
35°	621314	12635	80	0	0
40°	226739	6240	86	0	86
45°	58208	1861	93	0	217
50°	9825	239	102	102	341
55°	1262	0	268	382	650
60°	132	132	439	570	877
65°	156	156	675	882	1038
70°	192	192	833	833	1090
75°	254	254	1101	847	1101
80°	0	379	1263	884	1263
85°	0	755	2516	755	755

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 58208 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.6	0.5
10°-20°	26.4	7.7
20°-30°	146.2	42.5
30°-40°	141.2	41.1
40°-50°	24.6	7.1
50°-60°	1.8	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°	174.1	50.6
0°-40°	315.4	91.7
0°-60°	341.7	99.3
0°-90°	344.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	344.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	11	11	11	11	11	
5°	24	18	11	6	5	5
15°	397	77	6	1	1	177
25°	2726	95	2	0	0	1219
35°	2321	47	0	0	0	1335
45°	188	6	0	0	1	202
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°	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4
2.5°	16.7	16.1	16.4	16.4	16.4	16.4	16.4	15.7	15.7	16.1	14.4
5°	24.4	24.4	24.1	24.4	24.4	24.1	23.4	23.1	23.1	22.4	18.1
7.5°	48.9	48.2	48.2	47.5	44.2	43.2	42.5	40.8	37.8	37.1	23.4
10°	107.1	107.4	105.1	102.1	101.7	96.7	95.0	92.0	86.3	80.6	33.8
12.5°	194.4	190.1	184.4	184.7	175.0	171.7	164.0	155.6	146.9	137.9	55.5
15°	397.2	384.8	392.2	374.1	353.7	330.6	307.2	277.7	252.6	225.9	76.6
17.5°	836.6	848.6	828.2	750.9	703.4	647.5	568.9	492.9	428.0	375.8	93.7
20°	1486.1	1503.8	1434.5	1367.3	1251.8	1126.0	994.8	846.3	704.1	580.9	105.1
21°	1757.5	1746.7	1718.3	1610.6	1477.4	1331.5	1170.9	1006.9	834.6	674.6	106.1
22°	2019.8	2024.8	1958.6	1845.8	1707.3	1545.6	1349.5	1147.1	961.4	750.9	104.4
23°	2281.1	2297.2	2209.5	2103.8	1929.5	1747.1	1520.2	1301.7	1072.1	838.2	101.1
24°	2523.1	2512.0	2452.8	2319.6	2133.2	1919.7	1684.2	1419.1	1163.2	912.9	98.4
25°	2725.5	2724.2	2631.2	2501.7	2288.5	2051.9	1792.3	1515.2	1241.1	963.4	95.0
26°	2891.2	2864.1	2790.8	2632.8	2422.4	2172.7	1880.9	1585.1	1285.0	988.8	91.7
27°	3019.0	2999.6	2901.2	2736.9	2517.1	2241.0	1937.8	1619.9	1305.0	997.2	87.3
28°	3105.0	3083.9	2979.2	2809.9	2569.3	2283.8	1967.9	1634.6	1305.0	989.2	83.3
29°	3149.5	3120.7	3016.3	2834.9	2581.3	2288.8	1960.6	1620.3	1284.6	964.4	78.6
30°	3146.1	3110.3	3000.9	2812.2	2545.5	2247.7	1919.4	1568.4	1238.4	927.6	73.3
31°	3091.9	3051.8	2929.6	2735.2	2471.5	2170.0	1841.8	1498.8	1175.2	879.7	67.9
32°	2981.8	2931.0	2811.9	2618.1	2357.8	2053.9	1729.0	1391.4	1080.5	809.8	62.2
33°	2802.5	2751.3	2623.5	2441.8	2203.8	1906.7	1579.4	1275.9	972.8	726.5	57.6
34°	2578.0	2531.1	2421.0	2238.0	2009.8	1720.3	1407.4	1116.3	861.0	643.8	52.5
35°	2321.0	2246.3	2146.6	2001.7	1779.2	1488.1	1221.7	967.7	745.9	557.2	47.2
36°	1973.3	1986.7	1880.9	1703.6	1519.2	1291.0	1035.3	806.8	623.7	474.8	42.5
37°	1665.1	1644.0	1576.8	1439.6	1278.9	1052.4	867.7	684.0	524.7	401.6	37.5
38°	1343.2	1347.9	1282.0	1176.5	1017.3	865.3	698.4	561.8	439.0	341.7	32.8
39°	1051.4	1047.7	1030.0	932.3	788.0	688.3	565.9	465.8	365.7	288.1	27.8
40°	792.1	798.1	756.6	697.7	613.7	531.7	450.7	371.4	302.5	242.9	21.8
42.5°	385.2	394.5	367.1	352.0	314.9	282.8	238.6	194.8	165.6	143.2	9.7
45°	187.7	182.4	180.0	172.7	164.0	146.6	129.8	111.4	97.4	84.0	6.0
47.5°	96.0	93.4	93.4	90.3	87.3	81.6	73.3	67.3	60.6	52.2	2.3
50°	28.8	28.4	28.1	28.4	27.4	28.4	29.1	29.4	26.8	26.4	0.7
52.5°	11.4	11.7	11.4	12.4	12.4	12.0	12.4	12.0	11.7	10.4	0.0
55°	3.3	3.3	3.3	3.3	3.3	3.3	3.7	4.0	3.7	4.0	0.0
57.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	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°	11.4	11.4	11.4	11.4	11.4	11.4
2.5°	13.4	11.7	9.7	8.0	7.4	7.0
5°	14.4	10.7	7.4	5.7	5.0	4.7
7.5°	15.4	9.7	5.7	4.0	3.0	2.7
10°	16.1	8.4	4.4	2.3	1.7	1.7
12.5°	16.1	6.7	3.0	1.3	1.0	1.0
15°	15.7	5.7	2.0	1.0	0.7	0.7
17.5°	15.4	4.4	1.3	0.7	0.3	0.7
20°	14.4	3.3	0.7	0.3	0.3	0.3
21°	14.1	3.0	0.7	0.3	0.3	0.3
22°	13.4	2.7	0.3	0.0	0.3	0.3
23°	12.7	2.0	0.3	0.0	0.0	0.0
24°	11.7	1.7	0.3	0.0	0.0	0.0
25°	11.0	1.7	0.3	0.0	0.0	0.0
26°	10.4	1.0	0.0	0.0	0.0	0.0
27°	9.4	0.7	0.0	0.0	0.0	0.0
28°	8.7	0.7	0.0	0.0	0.0	0.0
29°	7.7	0.7	0.0	0.0	0.0	0.0
30°	6.7	0.7	0.0	0.0	0.0	0.0
31°	5.4	0.3	0.0	0.0	0.0	0.0
32°	4.4	0.3	0.0	0.0	0.0	0.0
33°	3.0	0.3	0.0	0.0	0.0	0.0
34°	2.0	0.3	0.0	0.0	0.0	0.0
35°	1.7	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°	0.7	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	0.7
45°	0.0	0.3	0.0	0.0	0.3	0.7
47.5°	0.0	0.3	0.0	0.0	0.7	0.7
50°	0.0	0.3	0.3	0.3	0.7	1.0
52.5°	0.0	0.7	0.3	0.7	1.0	1.3
55°	0.3	0.7	0.7	1.0	1.3	1.7
57.5°	0.3	1.0	1.0	1.3	1.7	1.7
60°	0.7	1.0	1.3	1.3	2.0	2.0
62.5°	0.7	1.3	1.3	1.3	2.0	2.0
65°	0.7	1.3	1.3	1.7	2.0	2.0
67.5°	0.7	1.3	1.3	1.3	1.7	2.0
70°	0.7	1.3	1.0	1.3	1.7	1.7
72.5°	0.7	1.3	1.0	1.0	1.3	1.7
75°	0.7	1.3	1.0	1.0	1.3	1.3
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	0.3	0.0	0.0	0.3
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)