

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: P1344437

Luminaire Tested: P3A13R259035DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1344437
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-61)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A13R259035DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R25 optic, 3500K CCT AND, 90CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

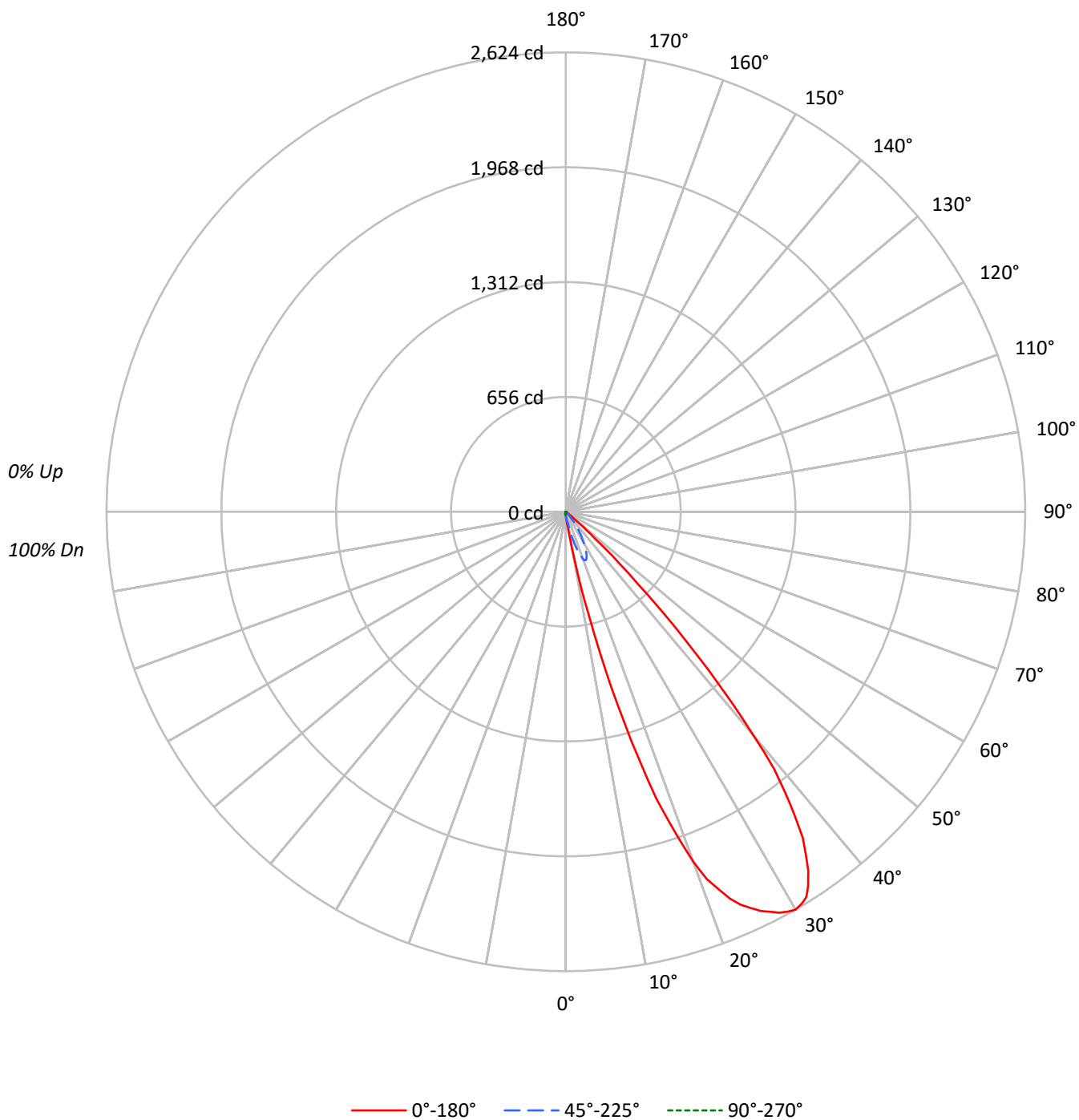
Lumens per Lamp: N/A
Luminaire Lumens: 525.1 lumens
Efficiency: N/A
Efficacy: 36.0 lumens/watt
Spacing Criteria (0/90/45): 2.36 / 0.51 / 1.27
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.6
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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	113	109	107	104	110	107	105	102	103	101	99		99	98	96		96
2	106	100	95	92	103	98	94	90	95	92	88		92	89	87		89
3	99	92	86	81	97	90	85	81	88	83	79		85	81	78		83
4	93	84	77	72	91	83	77	72	80	75	71		78	74	70		76
5	87	77	70	65	85	76	69	65	74	68	64		72	67	63		71
6	81	71	63	58	79	70	63	58	68	62	58		67	61	57		65
7	76	65	58	53	74	64	57	52	63	57	52		61	56	52		60
8	71	60	52	48	70	59	52	47	58	52	47		57	51	47		56
9	66	55	48	43	65	54	48	43	53	47	43		52	47	43		51
10	62	51	44	39	61	50	44	39	49	43	39		48	43	39		48

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	4934	4934	4934	4934	4934
5°	12393	9157	4644	2377	1827
10°	54196	15586	3808	1091	757
15°	257754	42043	2679	454	341
20°	496203	67323	1703	117	117
25°	604317	67915	944	0	0
30°	664406	51957	380	0	0
35°	640266	33033	134	0	0
40°	478411	14313	0	0	143
45°	177104	3783	155	155	465
50°	20878	512	341	341	682
55°	2064	0	382	573	918
60°	219	0	658	877	1053
65°	259	259	1038	1245	1505
70°	321	321	1282	1282	1859
75°	424	424	1271	1271	1694
80°	0	631	1894	1263	1894
85°	0	1258	3774	1258	1258

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 177104 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.3	0.6
10°-20°	61.2	11.7
20°-30°	192.1	36.6
30°-40°	202.2	38.5
40°-50°	59.4	11.3
50°-60°	3.2	0.6
60°-70°	1.6	0.3
70°-80°	1.3	0.3
80°-90°	0.7	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°	256.6	48.9
0°-40°	458.8	87.4
0°-60°	521.5	99.3
0°-90°	525.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	525.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	22	22	22	22	22	
5°	56	42	21	11	8	10
15°	1135	185	12	2	2	358
25°	2498	281	4	0	0	1146
35°	2392	123	0	0	0	1443
45°	571	12	0	0	2	519
55°	5	0	1	2	2	14
65°	0	0	2	2	3	0
75°	0	0	2	2	2	0
85°	0	0	2	0	0	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
0°	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5
2.5°	34.8	35.3	33.8	34.8	33.8	33.3	32.8	30.4	26.5	22.5	18.6
5°	56.3	56.3	53.9	53.4	52.4	50.5	48.5	41.6	29.9	21.1	14.7
7.5°	88.2	87.7	86.7	84.3	79.4	74.5	69.6	54.4	32.8	19.6	11.3
10°	243.4	240.0	235.6	209.2	179.3	152.8	129.8	70.0	35.3	17.1	8.3
12.5°	604.9	585.3	538.8	485.9	418.3	347.3	277.7	114.1	36.2	14.2	5.9
15°	1135.4	1094.8	1022.3	916.5	778.3	623.1	490.8	185.2	35.3	11.8	4.4
17.5°	1714.4	1675.2	1574.8	1414.1	1210.9	972.3	738.2	245.4	32.8	9.8	2.9
20°	2126.4	2084.7	1990.7	1820.2	1600.3	1282.4	971.8	288.5	30.9	7.3	1.5
21°	2246.9	2205.2	2105.8	1941.2	1710.0	1391.1	1046.8	295.9	29.4	6.4	1.0
22°	2323.3	2298.8	2192.0	2032.3	1796.7	1478.3	1110.9	299.3	28.4	5.9	1.0
23°	2400.2	2363.4	2263.5	2095.0	1862.8	1543.0	1158.5	296.8	27.4	4.9	0.5
24°	2457.0	2426.1	2310.0	2143.5	1908.9	1582.6	1186.4	290.5	26.0	4.4	0.5
25°	2497.7	2469.2	2348.3	2176.3	1939.7	1604.2	1195.2	280.7	24.5	3.9	0.5
26°	2536.3	2505.5	2380.1	2195.4	1955.9	1611.1	1186.9	269.9	23.0	3.4	0.0
27°	2564.3	2532.9	2402.1	2206.7	1956.9	1602.7	1164.3	255.2	21.6	2.9	0.0
28°	2594.1	2557.9	2417.3	2213.1	1951.0	1583.1	1132.0	239.5	20.6	2.4	0.0
29°	2612.3	2578.0	2433.0	2219.9	1938.8	1550.3	1085.0	220.9	18.1	1.5	0.0
30°	2624.0	2583.4	2431.5	2212.6	1922.6	1515.0	1028.6	205.2	15.7	1.5	0.0
31°	2614.2	2571.6	2415.8	2192.0	1896.6	1469.0	970.8	185.6	12.7	1.0	0.0
32°	2593.2	2542.7	2388.4	2156.2	1850.1	1409.7	911.1	169.5	9.3	1.0	0.0
33°	2541.7	2499.1	2338.9	2108.2	1789.4	1329.4	833.2	153.8	6.4	0.5	0.0
34°	2477.1	2434.5	2271.3	2044.1	1708.0	1225.6	738.7	137.6	5.4	0.5	0.0
35°	2391.8	2349.7	2194.9	1954.4	1600.3	1100.7	641.2	123.4	4.4	0.5	0.0
36°	2302.2	2246.4	2098.4	1858.9	1455.8	958.6	536.9	107.3	3.4	0.5	0.0
37°	2170.4	2132.7	1968.6	1713.4	1299.5	822.4	460.9	92.6	2.4	0.5	0.0
38°	2033.8	1999.0	1838.8	1567.0	1125.1	687.7	386.0	78.4	2.0	0.0	0.0
39°	1892.7	1834.9	1676.7	1379.4	942.4	576.0	324.8	65.6	1.0	0.0	0.0
40°	1671.3	1627.2	1458.2	1154.0	779.8	466.8	276.8	50.0	1.0	0.0	0.0
42.5°	1108.0	1066.9	889.5	626.0	414.4	272.8	182.7	19.6	0.0	0.5	0.0
45°	571.1	545.2	442.8	327.7	235.1	167.5	117.6	12.2	0.0	0.5	0.5
47.5°	226.8	222.4	200.8	173.4	133.7	99.4	64.2	5.4	0.0	0.5	0.5
50°	61.2	61.7	57.8	53.4	48.5	45.6	26.9	1.5	0.0	1.0	0.5
52.5°	26.0	26.5	25.5	24.0	21.6	16.2	10.8	0.5	0.5	1.0	1.0
55°	5.4	5.9	6.4	6.9	7.8	6.9	4.4	0.0	0.5	1.0	1.0
57.5°	1.0	1.0	1.0	1.0	1.5	1.5	1.0	0.0	0.5	1.0	1.5
60°	0.5	0.5	0.5	0.5	0.5	0.0	0.0	0.0	1.0	1.5	1.5
62.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.0	1.5	2.0
65°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.0	2.0	2.0
67.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.5	2.0	2.0
70°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.5	2.0	2.0
72.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.5	2.0	1.5
75°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.5	1.5	1.5
77.5°	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	1.0	1.5	1.5
80°	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	1.0	1.5	1.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	1.0	1.5	1.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.0	1.5	1.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.0	1.5	1.0
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):

	135°	157.5°	180°
0°	22.5	22.5	22.5
2.5°	15.7	14.2	13.7
5°	10.8	9.3	8.3
7.5°	7.3	5.9	5.4
10°	4.9	3.9	3.4
12.5°	3.4	2.0	2.0
15°	2.0	1.5	1.5
17.5°	1.0	0.5	0.5
20°	0.5	0.5	0.5
21°	0.0	0.0	0.0
22°	0.0	0.0	0.0
23°	0.0	0.0	0.0
24°	0.0	0.0	0.0
25°	0.0	0.0	0.0
26°	0.0	0.0	0.0
27°	0.0	0.0	0.0
28°	0.0	0.0	0.0
29°	0.0	0.0	0.0
30°	0.0	0.0	0.0
31°	0.0	0.0	0.0
32°	0.0	0.0	0.0
33°	0.0	0.0	0.0
34°	0.0	0.0	0.0
35°	0.0	0.0	0.0
36°	0.0	0.0	0.0
37°	0.0	0.0	0.0
38°	0.0	0.0	0.5
39°	0.0	0.5	0.5
40°	0.0	0.5	0.5
42.5°	0.0	0.5	1.0
45°	0.5	1.0	1.5
47.5°	1.0	1.5	2.0
50°	1.0	2.0	2.0
52.5°	1.5	2.0	2.4
55°	1.5	2.4	2.4
57.5°	2.0	2.4	2.9
60°	2.0	2.4	2.4
62.5°	2.0	2.9	2.9
65°	2.4	2.9	2.9
67.5°	2.4	2.9	2.9
70°	2.0	2.4	2.9
72.5°	2.0	2.4	2.4
75°	1.5	2.0	2.0
77.5°	1.5	1.5	2.0
80°	1.0	1.5	1.5



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CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
82.5°	1.0	1.0	1.0
85°	0.5	0.5	0.5
87.5°	0.5	0.5	0.5
90°	0.0	0.0	0.0

(END OF REPORT)