

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: P1339862

Luminaire Tested: P3A09R159030D2WDE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1339862
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: P3A09R159030D2WDE010 E3A301WMH
Description: 3in Adjustable Dim to Warm LED luminaire with, R15 optic, 3000K CCT AND, 90CRI ,
E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

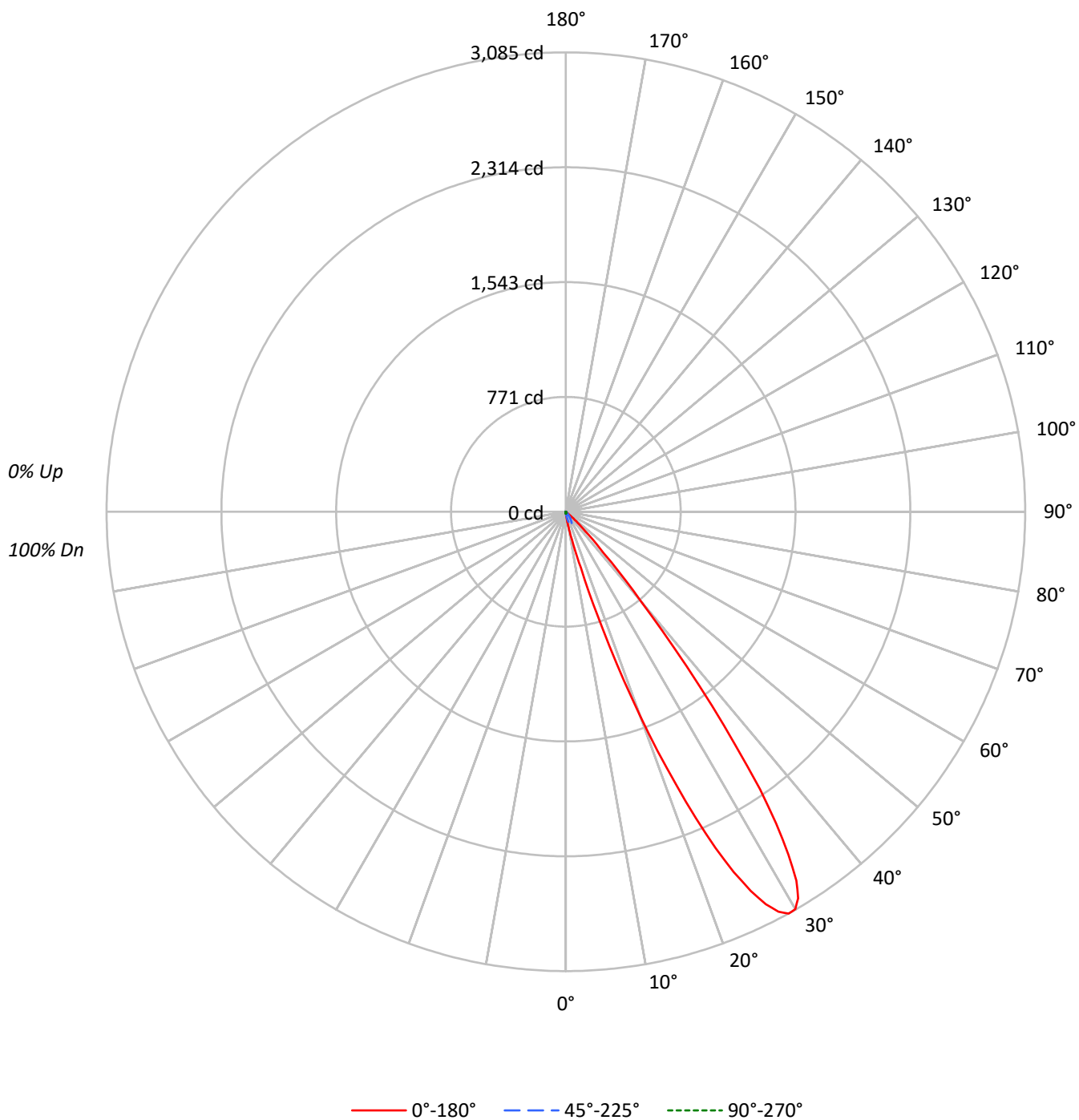
Lumens per Lamp: N/A
Luminaire Lumens: 337.0 lumens
Efficiency: N/A
Efficacy: 22.9 lumens/watt
Spacing Criteria (0/90/45): 2.35 / 0.49 / 1.26
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.7
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	48	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°	2434	2434	2434	2434	2434
5°	5261	3896	2311	1233	1013
10°	23357	7370	1826	512	356
15°	88332	17049	1271	227	159
20°	339716	24012	770	70	70
25°	646029	22525	387	0	0
30°	780399	18180	177	0	0
35°	608652	12367	80	0	0
40°	222102	6097	86	0	86
45°	57029	1830	93	0	217
50°	9620	239	102	102	341
55°	1262	0	268	382	612
60°	132	132	439	570	877
65°	156	156	675	830	1038
70°	192	192	833	833	1026
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: 57029 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.5	0.5
10°-20°	25.8	7.7
20°-30°	143.2	42.5
30°-40°	138.4	41.1
40°-50°	24.1	7.1
50°-60°	1.7	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°	170.6	50.6
0°-40°	308.9	91.7
0°-60°	334.7	99.3
0°-90°	337.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	337.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	11	11	11	11	11	
5°	24	18	10	6	5	5
15°	389	75	6	1	1	173
25°	2670	93	2	0	0	1194
35°	2274	46	0	0	0	1308
45°	184	6	0	0	1	198
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°	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1
2.5°	16.4	15.7	16.1	16.1	16.1	16.1	16.1	15.4	15.4	15.7	14.1
5°	23.9	23.9	23.6	23.9	23.9	23.6	22.9	22.6	22.6	22.0	17.7
7.5°	47.9	47.2	47.2	46.5	43.3	42.3	41.6	40.0	37.0	36.4	22.9
10°	104.9	105.2	102.9	100.0	99.7	94.7	93.1	90.1	84.6	79.0	33.1
12.5°	190.5	186.2	180.6	181.0	171.4	168.2	160.6	152.4	143.9	135.1	54.4
15°	389.1	377.0	384.2	366.5	346.5	323.9	300.9	272.1	247.5	221.3	75.1
17.5°	819.5	831.3	811.3	735.6	689.1	634.3	557.3	482.9	419.3	368.1	91.8
20°	1455.8	1473.2	1405.3	1339.5	1226.4	1103.1	974.6	829.0	689.7	569.1	102.9
21°	1721.7	1711.2	1683.3	1577.8	1447.3	1304.4	1147.0	986.4	817.6	660.9	103.9
22°	1978.7	1983.6	1918.7	1808.2	1672.5	1514.2	1322.1	1123.8	941.8	735.6	102.3
23°	2234.7	2250.5	2164.6	2061.0	1890.2	1711.5	1489.3	1275.2	1050.3	821.2	99.0
24°	2471.7	2460.9	2402.9	2272.4	2089.8	1880.7	1649.9	1390.3	1139.5	894.3	96.4
25°	2670.1	2668.8	2577.6	2450.8	2241.9	2010.2	1755.8	1484.4	1215.9	943.8	93.1
26°	2832.3	2805.8	2734.0	2579.3	2373.1	2128.5	1842.7	1552.9	1258.8	968.7	89.8
27°	2957.6	2938.5	2842.2	2681.2	2465.8	2195.4	1898.4	1587.0	1278.5	976.9	85.6
28°	3041.8	3021.2	2918.5	2752.7	2517.0	2237.3	1927.9	1601.4	1278.5	969.0	81.6
29°	3085.4	3057.2	2954.9	2777.3	2528.8	2242.3	1920.7	1587.3	1258.5	944.8	77.0
30°	3082.1	3047.1	2939.9	2755.0	2493.7	2201.9	1880.4	1536.5	1213.2	908.7	71.8
31°	3029.0	2989.7	2870.0	2679.6	2421.3	2125.9	1804.3	1468.3	1151.3	861.8	66.5
32°	2921.2	2871.3	2754.6	2564.8	2309.8	2012.1	1693.8	1363.1	1058.5	793.3	61.0
33°	2745.5	2695.3	2570.1	2392.1	2159.0	1867.9	1547.3	1250.0	953.0	711.7	56.4
34°	2525.5	2479.6	2371.8	2192.4	1968.9	1685.3	1378.8	1093.6	843.5	630.7	51.5
35°	2273.7	2200.6	2102.9	1961.0	1743.0	1457.8	1196.9	948.0	730.7	545.8	46.2
36°	1933.1	1946.2	1842.7	1668.9	1488.3	1264.7	1014.3	790.4	611.0	465.2	41.6
37°	1631.2	1610.6	1544.7	1410.3	1252.9	1031.0	850.0	670.1	514.0	393.4	36.7
38°	1315.9	1320.4	1255.9	1152.6	996.6	847.7	684.2	550.4	430.1	334.7	32.1
39°	1030.0	1026.4	1009.0	913.3	772.0	674.3	554.3	456.3	358.3	282.2	27.2
40°	775.9	781.8	741.2	683.5	601.2	520.9	441.6	363.9	296.3	238.0	21.3
42.5°	377.3	386.5	359.6	344.9	308.5	277.0	233.7	190.8	162.3	140.3	9.5
45°	183.9	178.7	176.4	169.2	160.6	143.6	127.2	109.2	95.4	82.3	5.9
47.5°	94.1	91.5	91.5	88.5	85.6	80.0	71.8	65.9	59.3	51.1	2.3
50°	28.2	27.9	27.5	27.9	26.9	27.9	28.5	28.8	26.2	25.9	0.7
52.5°	11.1	11.5	11.1	12.1	12.1	11.8	12.1	11.8	11.5	10.2	0.0
55°	3.3	3.3	3.3	3.3	3.3	3.3	3.6	3.9	3.6	3.9	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°	11.1	11.1	11.1	11.1	11.1	11.1
2.5°	13.1	11.5	9.5	7.9	7.2	6.9
5°	14.1	10.5	7.2	5.6	4.9	4.6
7.5°	15.1	9.5	5.6	3.9	3.0	2.6
10°	15.7	8.2	4.3	2.3	1.6	1.6
12.5°	15.7	6.6	3.0	1.3	1.0	1.0
15°	15.4	5.6	2.0	1.0	0.7	0.7
17.5°	15.1	4.3	1.3	0.7	0.3	0.7
20°	14.1	3.3	0.7	0.3	0.3	0.3
21°	13.8	3.0	0.7	0.3	0.3	0.3
22°	13.1	2.6	0.3	0.0	0.3	0.3
23°	12.5	2.0	0.3	0.0	0.0	0.0
24°	11.5	1.6	0.3	0.0	0.0	0.0
25°	10.8	1.6	0.3	0.0	0.0	0.0
26°	10.2	1.0	0.0	0.0	0.0	0.0
27°	9.2	0.7	0.0	0.0	0.0	0.0
28°	8.5	0.7	0.0	0.0	0.0	0.0
29°	7.5	0.7	0.0	0.0	0.0	0.0
30°	6.6	0.7	0.0	0.0	0.0	0.0
31°	5.2	0.3	0.0	0.0	0.0	0.0
32°	4.3	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°	1.6	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	1.6
57.5°	0.3	1.0	1.0	1.3	1.6	1.6
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	1.6	2.0	2.0
67.5°	0.7	1.3	1.3	1.3	1.6	2.0
70°	0.7	1.3	1.0	1.3	1.6	1.6
72.5°	0.7	1.3	1.0	1.0	1.3	1.6
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)