

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: P1343408

Luminaire Tested: P3A13R159030D2WDE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1343408
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: P3A13R159030D2WDE010 E3A301WMH
Description: 3in Adjustable Dim to Warm LED luminaire with, R15 optic, 3000K CCT AND, 90CRI ,
E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

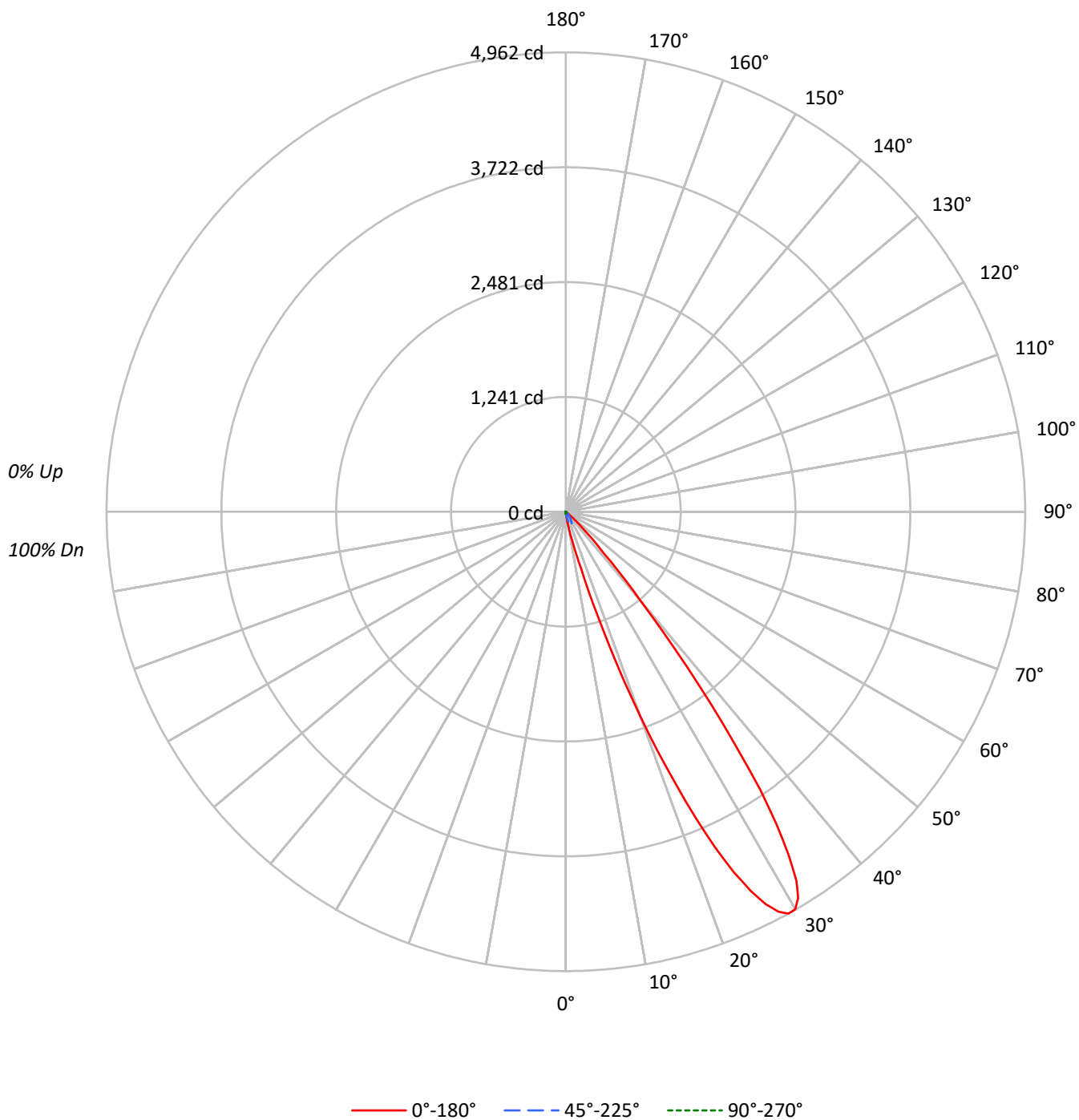
Lumens per Lamp: N/A
Luminaire Lumens: 542.0 lumens
Efficiency: N/A
Efficacy: 27.0 lumens/watt
Spacing Criteria (0/90/45): 2.35 / 0.49 / 1.26
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 20.1
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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77
4	93	84	78	73	91	83	77	72	81	75	71	79	74	70	77	73	70
5	87	77	70	65	85	76	70	65	74	69	64	72	67	64	71	66	63
6	81	71	64	59	80	70	63	58	68	62	58	67	61	57	65	61	57
7	76	65	58	53	74	64	57	53	63	57	52	61	56	52	60	55	52
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	51	46	42
10	62	51	44	39	61	50	43	39	49	43	39	48	43	39	47	42	39

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	3925	3925	3925	3925	3925
5°	8475	6273	3720	1981	1629
10°	37563	11868	2939	824	579
15°	142067	27401	2043	363	250
20°	546374	38643	1237	117	117
25°	1039004	36220	629	0	0
30°	1255130	29245	279	0	0
35°	978924	19890	134	0	0
40°	357241	9818	143	0	143
45°	91730	2946	155	0	341
50°	15454	375	171	171	546
55°	2026	0	421	612	994
60°	219	219	702	921	1403
65°	259	259	1090	1349	1660
70°	321	321	1346	1346	1667
75°	424	424	1779	1356	1779
80°	0	631	2020	1389	2020
85°	0	1258	4026	1258	1258

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 91730 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.5	0.5
10°-20°	41.5	7.7
20°-30°	230.4	42.5
30°-40°	222.5	41.1
40°-50°	38.7	7.1
50°-60°	2.8	0.5
60°-70°	1.6	0.3
70°-80°	1.3	0.2
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°	274.3	50.6
0°-40°	496.9	91.7
0°-60°	538.4	99.3
0°-90°	542.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	542.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	18	18	18	18	18	
5°	38	28	17	9	7	8
15°	626	121	9	2	1	279
25°	4294	150	3	0	0	1920
35°	3657	74	0	0	0	2103
45°	296	10	0	0	1	318
55°	5	0	1	2	3	10
65°	0	0	2	3	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°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9
2.5°	26.4	25.3	25.8	25.8	25.8	25.8	25.8	24.8	24.8	25.3	22.7
5°	38.5	38.5	38.0	38.5	38.5	38.0	36.9	36.4	36.4	35.3	28.5
7.5°	77.0	75.9	75.9	74.9	69.6	68.0	67.0	64.3	59.6	58.5	36.9
10°	168.7	169.2	165.6	160.8	160.3	152.4	149.7	145.0	136.0	127.1	53.3
12.5°	306.3	299.5	290.5	291.0	275.7	270.5	258.3	245.2	231.5	217.2	87.5
15°	625.8	606.3	617.9	589.4	557.3	520.9	484.0	437.6	398.1	355.9	120.7
17.5°	1318.1	1337.1	1304.9	1183.1	1108.2	1020.2	896.3	776.6	674.3	592.1	147.6
20°	2341.4	2369.4	2260.2	2154.3	1972.4	1774.1	1567.5	1333.4	1109.3	915.3	165.6
21°	2769.0	2752.1	2707.3	2537.6	2327.7	2097.8	1844.8	1586.4	1314.9	1062.9	167.1
22°	3182.4	3190.3	3085.9	2908.2	2689.9	2435.3	2126.3	1807.3	1514.7	1183.1	164.5
23°	3594.1	3619.4	3481.3	3314.7	3040.0	2752.7	2395.2	2050.9	1689.2	1320.7	159.2
24°	3975.3	3957.9	3864.6	3654.8	3361.1	3024.7	2653.5	2236.0	1832.7	1438.3	155.0
25°	4294.3	4292.2	4145.6	3941.6	3605.7	3233.0	2823.8	2387.3	1955.5	1517.9	149.7
26°	4555.3	4512.6	4397.1	4148.2	3816.6	3423.3	2963.6	2497.5	2024.6	1558.0	144.5
27°	4756.7	4726.1	4571.1	4312.2	3965.8	3530.9	3053.2	2552.3	2056.2	1571.1	137.6
28°	4892.2	4858.9	4693.9	4427.1	4048.1	3598.3	3100.6	2575.5	2056.2	1558.5	131.3
29°	4962.3	4916.9	4752.4	4466.7	4067.1	3606.3	3089.0	2552.8	2024.0	1519.5	123.9
30°	4957.0	4900.6	4728.2	4430.8	4010.6	3541.4	3024.2	2471.1	1951.3	1461.5	115.5
31°	4871.6	4808.3	4615.9	4309.6	3894.1	3419.1	2901.9	2361.5	1851.6	1386.1	107.0
32°	4698.1	4618.0	4430.3	4125.0	3714.9	3236.1	2724.2	2192.2	1702.4	1275.9	98.1
33°	4415.5	4334.9	4133.5	3847.2	3472.3	3004.2	2488.5	2010.3	1532.7	1144.6	90.7
34°	4061.8	3988.0	3814.5	3526.1	3166.5	2710.5	2217.5	1758.8	1356.6	1014.4	82.8
35°	3656.9	3539.3	3382.2	3153.9	2803.3	2344.6	1924.9	1524.7	1175.2	877.8	74.3
36°	3109.1	3130.2	2963.6	2684.1	2393.6	2034.1	1631.2	1271.2	982.8	748.1	67.0
37°	2623.5	2590.3	2484.3	2268.1	2015.1	1658.1	1367.1	1077.7	826.7	632.7	59.0
38°	2116.3	2123.7	2019.8	1853.7	1602.8	1363.4	1100.3	885.2	691.7	538.3	51.7
39°	1656.6	1650.8	1622.8	1468.9	1241.6	1084.5	891.5	733.9	576.3	453.9	43.8
40°	1248.0	1257.4	1192.1	1099.3	966.9	837.8	710.2	585.2	476.6	382.8	34.3
42.5°	606.8	621.6	578.4	554.6	496.1	445.5	375.9	306.8	261.0	225.7	15.3
45°	295.8	287.3	283.6	272.1	258.3	230.9	204.6	175.6	153.4	132.3	9.5
47.5°	151.3	147.1	147.1	142.4	137.6	128.6	115.5	106.0	95.4	82.2	3.7
50°	45.3	44.8	44.3	44.8	43.2	44.8	45.9	46.4	42.2	41.7	1.1
52.5°	17.9	18.5	17.9	19.5	19.5	19.0	19.5	19.0	18.5	16.3	0.0
55°	5.3	5.3	5.3	5.3	5.3	5.3	5.8	6.3	5.8	6.3	0.0
57.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0.0
60°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.0	0.5
62.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
65°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
67.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
70°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
72.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
75°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5



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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	0.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
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°	17.9	17.9	17.9	17.9	17.9	17.9
2.5°	21.1	18.5	15.3	12.7	11.6	11.1
5°	22.7	16.9	11.6	9.0	7.9	7.4
7.5°	24.3	15.3	9.0	6.3	4.7	4.2
10°	25.3	13.2	6.9	3.7	2.6	2.6
12.5°	25.3	10.5	4.7	2.1	1.6	1.6
15°	24.8	9.0	3.2	1.6	1.1	1.1
17.5°	24.3	6.9	2.1	1.1	0.5	1.1
20°	22.7	5.3	1.1	0.5	0.5	0.5
21°	22.1	4.7	1.1	0.5	0.5	0.5
22°	21.1	4.2	0.5	0.0	0.5	0.5
23°	20.0	3.2	0.5	0.0	0.0	0.0
24°	18.5	2.6	0.5	0.0	0.0	0.0
25°	17.4	2.6	0.5	0.0	0.0	0.0
26°	16.3	1.6	0.0	0.0	0.0	0.0
27°	14.8	1.1	0.0	0.0	0.0	0.0
28°	13.7	1.1	0.0	0.0	0.0	0.0
29°	12.1	1.1	0.0	0.0	0.0	0.0
30°	10.5	1.1	0.0	0.0	0.0	0.0
31°	8.4	0.5	0.0	0.0	0.0	0.0
32°	6.9	0.5	0.0	0.0	0.0	0.0
33°	4.7	0.5	0.0	0.0	0.0	0.0
34°	3.2	0.5	0.0	0.0	0.0	0.0
35°	2.6	0.5	0.0	0.0	0.0	0.0
36°	1.6	0.5	0.0	0.0	0.0	0.5
37°	1.6	0.5	0.0	0.0	0.0	0.5
38°	1.1	0.5	0.0	0.0	0.0	0.5
39°	0.5	0.5	0.0	0.0	0.0	0.5
40°	0.5	0.5	0.0	0.0	0.0	0.5
42.5°	0.0	0.5	0.0	0.0	0.5	1.1
45°	0.0	0.5	0.0	0.0	0.5	1.1
47.5°	0.0	0.5	0.0	0.0	1.1	1.1
50°	0.0	0.5	0.5	0.5	1.1	1.6
52.5°	0.0	1.1	0.5	1.1	1.6	2.1
55°	0.5	1.1	1.1	1.6	2.1	2.6
57.5°	0.5	1.6	1.6	2.1	2.6	2.6
60°	1.1	1.6	2.1	2.1	3.2	3.2
62.5°	1.1	2.1	2.1	2.1	3.2	3.2
65°	1.1	2.1	2.1	2.6	3.2	3.2
67.5°	1.1	2.1	2.1	2.1	2.6	3.2
70°	1.1	2.1	1.6	2.1	2.6	2.6
72.5°	1.1	2.1	1.6	1.6	2.1	2.6
75°	1.1	2.1	1.6	1.6	2.1	2.1
77.5°	1.1	1.6	1.6	1.1	1.6	1.6
80°	1.1	1.6	1.1	1.1	1.6	1.6



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	1.1	1.6	1.1	0.5	1.1	1.1
85°	1.1	1.6	1.1	0.5	0.5	0.5
87.5°	1.1	1.6	0.5	0.0	0.0	0.5
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)