

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: P1345948

Luminaire Tested: P3A13R409030DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1345948
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-64)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A13R409030DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R40 optic, 3000K CCT AND, 90CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

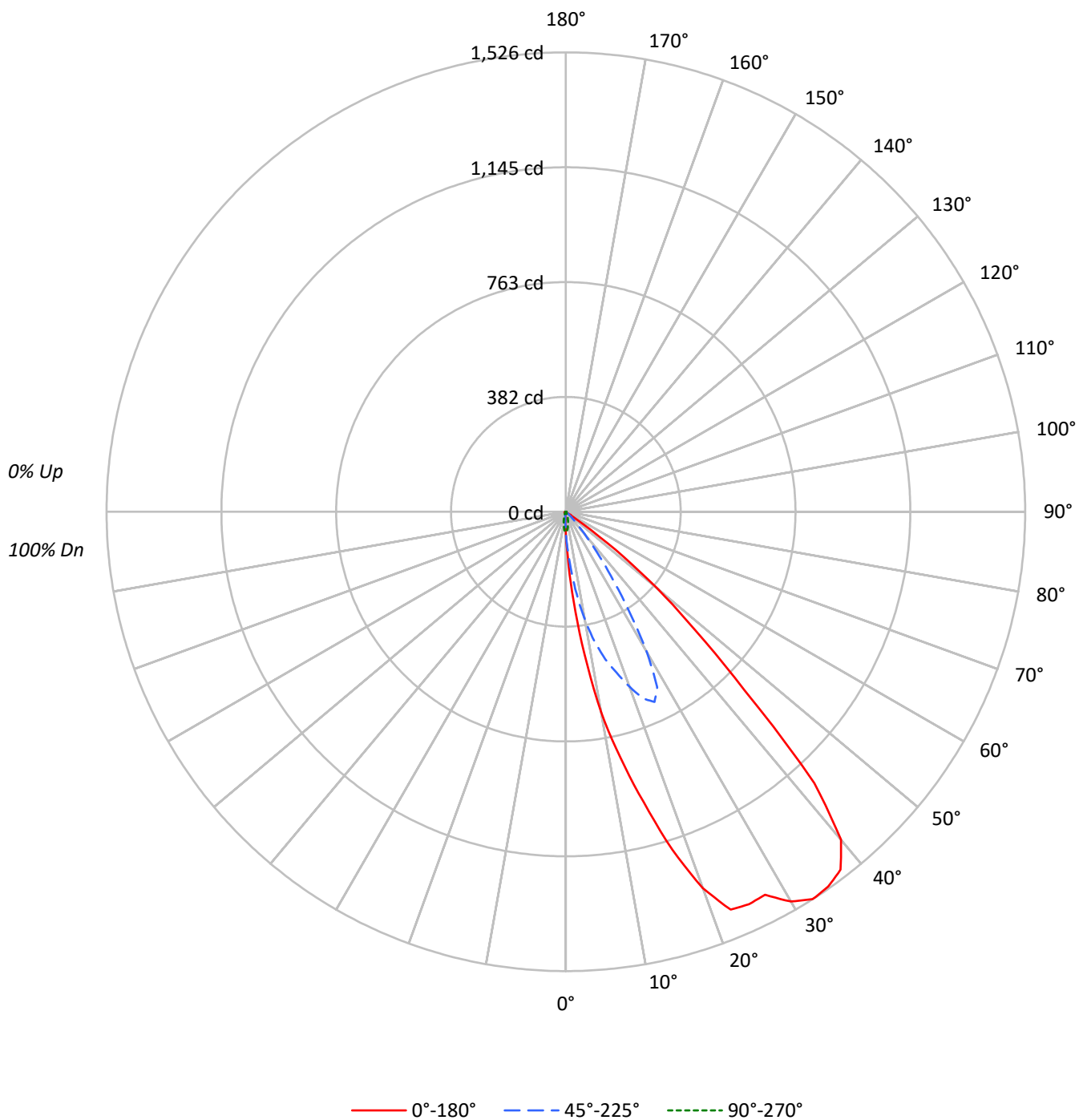
Lumens per Lamp: N/A
Luminaire Lumens: 563.1 lumens
Efficiency: N/A
Efficacy: 38.6 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.42 / 1.24
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	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	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	93	93	91
2	105	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	84	84	82
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	76	76	74
4	92	83	77	71	90	82	76	71	80	74	70	78	73	69	76	72	68	68	68	67
5	86	76	69	64	84	75	68	64	73	67	63	71	66	62	70	65	62	62	62	60
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	60	56	56	56	54
7	75	64	57	52	74	63	56	51	62	56	51	61	55	51	59	54	51	51	51	49
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	46	46	44
9	66	54	47	42	65	54	47	42	53	46	42	52	46	42	51	46	42	42	42	40
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	38	38	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	14604	14604	14604	14604	14604
5°	65881	41999	13097	5019	3676
10°	151077	81161	9218	1804	1381
15°	226744	115143	5721	976	863
20°	310454	144353	3337	560	677
25°	348044	168663	1718	460	581
30°	378565	136148	734	354	608
35°	406839	69680	268	509	776
40°	406991	27795	143	544	945
45°	259841	9303	310	899	1333
50°	134887	1126	478	1126	1637
55°	11660	191	535	1453	1988
60°	439	219	614	1667	2281
65°	519	259	986	1712	2491
70°	321	321	1218	1859	2436
75°	424	424	1186	2033	2796
80°	631	631	1768	1768	2399
85°	0	1258	3522	2516	2516

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 259841 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13.0	2.3
10°-20°	76.2	13.5
20°-30°	166.9	29.6
30°-40°	190.1	33.8
40°-50°	100.3	17.8
50°-60°	11.8	2.1
60°-70°	2.1	0.4
70°-80°	1.8	0.3
80°-90°	0.8	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°	256.1	45.5
0°-40°	446.2	79.2
0°-60°	558.3	99.2
0°-90°	563.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	563.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	67	67	67	67	67	
5°	299	191	60	23	17	40
15°	999	507	25	4	4	294
25°	1438	697	7	2	2	663
35°	1520	260	1	2	3	942
45°	838	30	1	3	4	676
55°	30	0	1	4	5	95
65°	1	0	2	3	5	1
75°	0	0	1	2	3	1
85°	0	0	1	1	1	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	67.5°
0°	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6
2.5°	148.5	148.5	148.0	143.7	143.2	142.8	135.1	133.2	124.2	118.0	89.9
5°	299.3	292.6	292.2	284.6	271.7	254.6	243.6	226.0	208.9	190.8	110.9
7.5°	476.8	482.5	466.8	458.7	430.2	409.7	378.3	350.7	312.1	276.0	128.0
10°	678.5	668.6	652.8	637.1	606.2	569.6	522.9	473.9	418.3	364.5	137.5
12.5°	836.0	823.2	813.7	792.3	761.8	714.7	659.0	593.4	519.6	442.1	137.0
15°	998.8	985.9	964.5	945.5	900.3	847.5	787.0	700.4	610.0	507.2	127.0
17.5°	1177.7	1161.0	1137.3	1108.2	1064.4	1005.9	929.3	823.7	695.7	560.5	109.0
20°	1330.4	1320.4	1296.7	1262.4	1219.6	1162.5	1074.0	956.9	800.8	618.6	86.6
22.5°	1430.4	1421.3	1405.1	1375.2	1342.8	1281.9	1201.0	1072.5	888.9	671.4	65.7
25°	1438.5	1434.7	1430.4	1420.4	1400.9	1357.6	1278.6	1140.1	943.6	697.1	48.5
27.5°	1434.2	1432.7	1431.8	1426.6	1413.7	1370.9	1290.0	1150.1	936.4	657.1	35.7
30°	1495.1	1490.8	1488.4	1471.3	1437.5	1371.4	1265.7	1096.3	832.2	537.7	25.7
32.5°	1526.0	1525.1	1522.7	1506.0	1458.4	1372.3	1224.8	966.4	660.0	388.3	17.6
35°	1519.8	1515.1	1506.5	1475.6	1409.4	1301.4	1092.5	771.8	476.3	260.3	11.4
37.5°	1498.9	1487.9	1471.3	1415.6	1327.6	1180.1	886.0	568.2	324.0	168.4	6.7
40°	1421.8	1407.1	1380.9	1312.8	1197.2	972.6	655.2	384.0	212.7	97.1	1.9
42.5°	1222.4	1203.4	1184.4	1108.2	975.9	725.2	431.1	237.4	121.3	53.3	0.5
45°	837.9	814.2	788.0	732.8	626.7	439.2	256.5	133.7	62.8	30.0	0.5
47.5°	581.9	571.0	525.3	454.9	348.8	232.7	132.8	65.7	33.3	13.8	0.5
50°	395.4	383.0	329.8	261.7	185.6	111.3	60.9	32.8	14.8	3.3	0.5
52.5°	207.5	192.2	158.5	120.9	75.2	46.6	26.6	14.3	4.3	0.5	0.5
55°	30.5	28.1	22.8	18.6	16.7	12.8	7.6	3.3	0.5	0.5	1.0
57.5°	1.0	1.0	1.0	1.0	1.4	1.4	1.0	0.5	0.5	0.5	1.0
60°	1.0	1.0	1.0	1.0	1.0	0.5	0.5	0.5	0.5	0.5	1.0
62.5°	1.0	1.0	1.0	1.0	1.0	0.5	0.5	0.5	0.5	0.5	1.0
65°	1.0	1.0	1.0	1.0	1.0	0.5	0.5	0.5	0.5	0.5	1.0
67.5°	1.0	1.0	1.0	1.0	0.5	0.5	0.5	0.5	0.5	1.0	1.4
70°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.4
72.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.0	1.4
75°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.4
77.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.0	1.4
80°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5	0.5	1.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	1.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	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):

	90°	112.5°	135°	157.5°	180°
0°	66.6	66.6	66.6	66.6	66.6
2.5°	65.7	48.5	37.6	32.4	31.9
5°	59.5	34.7	22.8	17.6	16.7
7.5°	50.4	24.3	13.3	9.5	9.0
10°	41.4	16.7	8.1	6.7	6.2
12.5°	32.8	10.9	5.7	5.2	4.8
15°	25.2	7.1	4.3	3.8	3.8
17.5°	19.0	4.8	3.3	3.3	3.3
20°	14.3	3.3	2.4	2.9	2.9
22.5°	10.0	2.4	1.9	2.4	2.4
25°	7.1	1.9	1.9	2.4	2.4
27.5°	4.8	1.4	1.4	1.9	2.4
30°	2.9	1.0	1.4	1.9	2.4
32.5°	1.4	1.0	1.4	2.4	2.4
35°	1.0	1.4	1.9	2.4	2.9
37.5°	0.5	1.4	1.9	2.9	2.9
40°	0.5	1.4	1.9	2.9	3.3
42.5°	1.0	1.9	2.4	3.3	3.8
45°	1.0	1.9	2.9	3.8	4.3
47.5°	1.0	1.9	3.3	4.3	4.3
50°	1.4	2.4	3.3	4.3	4.8
52.5°	1.4	2.4	3.3	4.8	5.2
55°	1.4	2.4	3.8	4.8	5.2
57.5°	1.4	2.9	3.8	4.8	5.2
60°	1.4	2.4	3.8	4.8	5.2
62.5°	1.9	2.4	3.3	4.8	4.8
65°	1.9	2.4	3.3	4.8	4.8
67.5°	1.9	2.4	3.3	4.3	4.3
70°	1.9	2.4	2.9	3.8	3.8
72.5°	1.9	2.4	2.9	3.3	3.8
75°	1.4	1.9	2.4	2.9	3.3
77.5°	1.4	1.9	1.9	2.9	2.9
80°	1.4	1.4	1.4	1.9	1.9
82.5°	1.4	1.4	1.0	1.4	1.4
85°	1.4	1.0	1.0	1.0	1.0
87.5°	1.0	1.0	0.5	0.5	0.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)