

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: P1345994

Luminaire Tested: P3A13R409050DE010 E3A301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1345994
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: P3A13R409050DE010 E3A301MW
Description: 3in Adjustable LED luminaire with, R40 optic, 5000K CCT AND, 90CRI , E3A301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

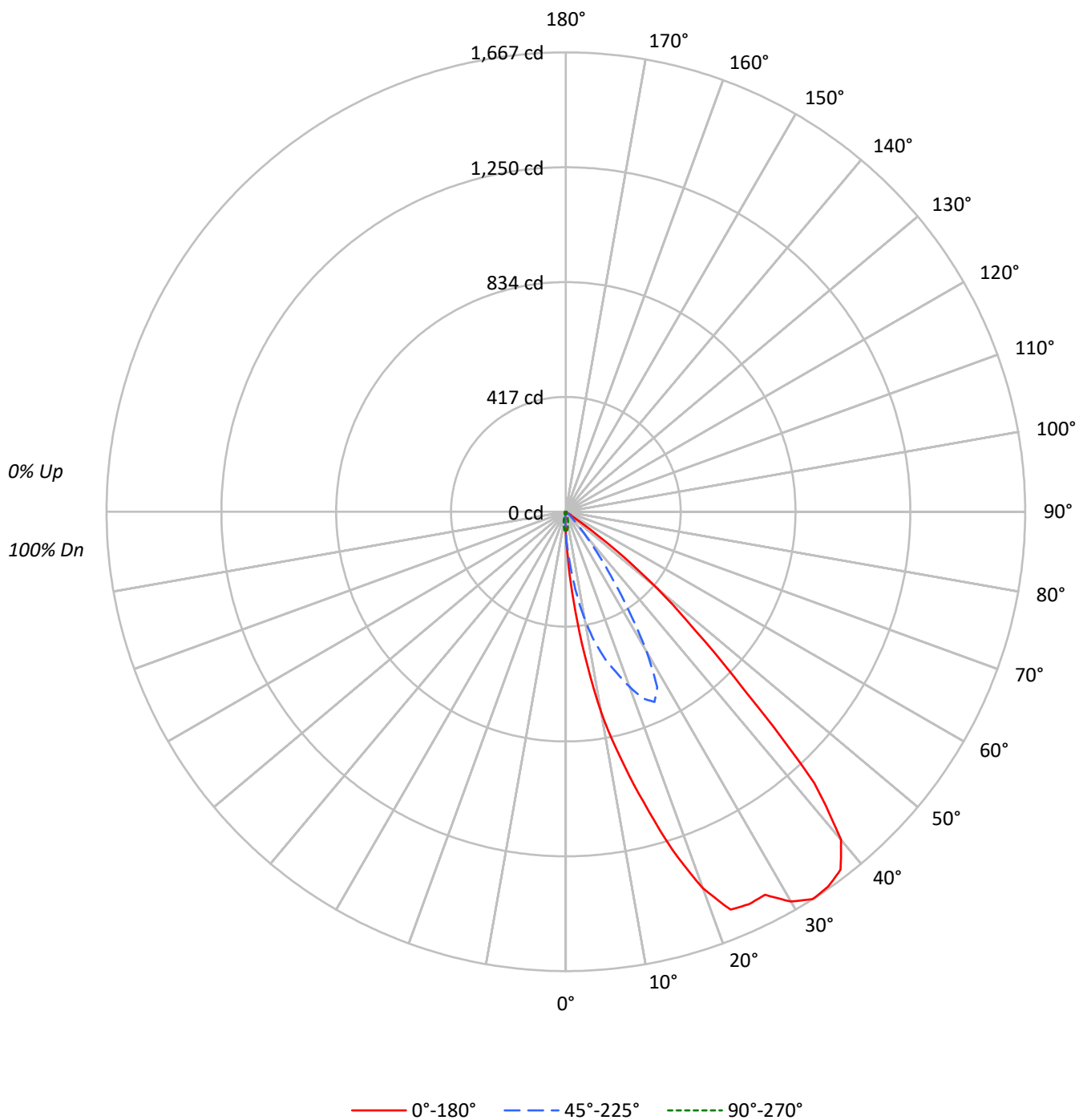
Lumens per Lamp: N/A
Luminaire Lumens: 615.0 lumens
Efficiency: N/A
Efficacy: 42.1 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.42 / 1.24
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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			0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	112	109	106	104	110	107	104	102	103	101	99		99	97	96		96	94	93	91
2	105	100	95	91	103	98	94	90	95	91	88		92	89	86		89	86	84	82
3	99	91	85	80	97	90	84	80	87	82	78		84	80	77		82	79	76	74
4	92	83	77	71	90	82	76	71	80	74	70		78	73	69		76	72	68	67
5	86	76	69	64	84	75	68	64	73	67	63		71	66	62		70	65	62	60
6	80	70	62	57	79	69	62	57	67	61	57		66	60	56		64	60	56	54
7	75	64	57	52	74	63	56	52	62	56	51		61	55	51		59	54	51	49
8	70	59	52	47	69	58	51	47	57	51	46		56	50	46		55	50	46	44
9	66	54	47	42	65	54	47	42	53	46	42		52	46	42		51	46	42	40
10	62	50	43	39	61	50	43	39	49	43	38		48	42	38		47	42	38	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	15964	15964	15964	15964	15964
5°	71957	45873	14308	5481	4006
10°	165038	88665	10064	1959	1514
15°	247675	125790	6243	1067	953
20°	339133	157677	3640	607	723
25°	380175	184245	1887	508	629
30°	413532	148732	785	405	658
35°	444423	76105	268	562	830
40°	444576	30343	143	601	1031
45°	283843	10141	310	961	1458
50°	147338	1228	546	1228	1774
55°	12731	191	612	1606	2179
60°	439	219	702	1842	2500
65°	519	259	1090	1868	2698
70°	321	321	1346	1988	2693
75°	424	424	1356	2203	3050
80°	631	631	2020	2020	2652
85°	0	1258	4026	2516	2516

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 283843 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14.2	2.3
10°-20°	83.2	13.5
20°-30°	182.3	29.6
30°-40°	207.7	33.8
40°-50°	109.6	17.8
50°-60°	12.9	2.1
60°-70°	2.3	0.4
70°-80°	1.9	0.3
80°-90°	0.9	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°	279.7	45.5
0°-40°	487.4	79.3
0°-60°	609.9	99.2
0°-90°	615.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	615.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	73	73	73	73	73	
5°	327	208	65	25	18	44
15°	1091	554	28	5	4	321
25°	1571	762	8	2	3	724
35°	1660	284	1	2	3	1029
45°	915	33	1	3	5	738
55°	33	0	2	4	6	103
65°	1	0	2	4	5	1
75°	0	0	2	3	4	1
85°	0	0	2	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°	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8
2.5°	162.2	162.2	161.7	157.0	156.5	155.9	147.6	145.5	135.7	128.9	98.2
5°	326.9	319.7	319.1	310.8	296.8	278.1	266.1	246.9	228.2	208.4	121.1
7.5°	520.8	527.1	509.9	501.1	469.9	447.5	413.2	383.1	341.0	301.5	139.8
10°	741.2	730.3	713.1	696.0	662.2	622.2	571.2	517.7	456.9	398.2	150.2
12.5°	913.3	899.2	888.8	865.4	832.2	780.7	719.9	648.2	567.6	482.9	149.7
15°	1091.0	1077.0	1053.6	1032.8	983.4	925.7	859.7	765.1	666.4	554.1	138.8
17.5°	1286.5	1268.3	1242.3	1210.6	1162.8	1098.8	1015.1	899.8	759.9	612.3	119.0
20°	1453.3	1442.4	1416.4	1379.0	1332.2	1269.8	1173.2	1045.3	874.8	675.7	94.6
22.5°	1562.5	1552.6	1534.9	1502.2	1466.8	1400.3	1311.9	1171.6	971.0	733.4	71.7
25°	1571.3	1567.2	1562.5	1551.6	1530.3	1483.0	1396.7	1245.4	1030.7	761.5	53.0
27.5°	1566.6	1565.1	1564.0	1558.3	1544.3	1497.5	1409.1	1256.3	1022.9	717.8	39.0
30°	1633.2	1628.5	1625.9	1607.2	1570.3	1498.0	1382.6	1197.6	909.1	587.4	28.1
32.5°	1667.0	1665.9	1663.3	1645.1	1593.1	1499.1	1337.9	1055.7	720.9	424.1	19.2
35°	1660.2	1655.0	1645.6	1611.9	1539.6	1421.6	1193.4	843.1	520.3	284.3	12.5
37.5°	1637.3	1625.4	1607.2	1546.4	1450.2	1289.1	967.8	620.6	354.0	184.0	7.3
40°	1553.1	1537.0	1508.4	1434.1	1307.8	1062.4	715.7	419.5	232.3	106.0	2.1
42.5°	1335.3	1314.5	1293.7	1210.6	1066.1	792.2	470.9	259.4	132.5	58.2	0.5
45°	915.3	889.4	860.8	800.5	684.6	479.8	280.2	146.1	68.6	32.7	0.5
47.5°	635.7	623.7	573.8	496.9	381.0	254.2	145.0	71.7	36.4	15.1	0.5
50°	431.9	418.4	360.2	285.9	202.7	121.6	66.5	35.9	16.1	3.6	0.5
52.5°	226.6	210.0	173.1	132.0	82.1	50.9	29.1	15.6	4.7	0.5	0.5
55°	33.3	30.7	24.9	20.3	18.2	14.0	8.3	3.6	0.5	0.5	1.0
57.5°	1.0	1.0	1.0	1.0	1.6	1.6	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	1.6
70°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.6
72.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.0	1.6
75°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.6
77.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.0	1.6
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	1.6
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°	72.8	72.8	72.8	72.8	72.8
2.5°	71.7	53.0	41.1	35.3	34.8
5°	65.0	37.9	24.9	19.2	18.2
7.5°	55.1	26.5	14.6	10.4	9.9
10°	45.2	18.2	8.8	7.3	6.8
12.5°	35.9	12.0	6.2	5.7	5.2
15°	27.5	7.8	4.7	4.2	4.2
17.5°	20.8	5.2	3.6	3.6	3.6
20°	15.6	3.6	2.6	3.1	3.1
22.5°	10.9	2.6	2.1	2.6	2.6
25°	7.8	2.1	2.1	2.6	2.6
27.5°	5.2	1.6	1.6	2.1	2.6
30°	3.1	1.0	1.6	2.1	2.6
32.5°	1.6	1.0	1.6	2.6	2.6
35°	1.0	1.6	2.1	2.6	3.1
37.5°	0.5	1.6	2.1	3.1	3.1
40°	0.5	1.6	2.1	3.1	3.6
42.5°	1.0	2.1	2.6	3.6	4.2
45°	1.0	2.1	3.1	4.2	4.7
47.5°	1.0	2.1	3.6	4.7	4.7
50°	1.6	2.6	3.6	4.7	5.2
52.5°	1.6	2.6	3.6	5.2	5.7
55°	1.6	2.6	4.2	5.2	5.7
57.5°	1.6	3.1	4.2	5.2	5.7
60°	1.6	2.6	4.2	5.2	5.7
62.5°	2.1	2.6	3.6	5.2	5.2
65°	2.1	2.6	3.6	5.2	5.2
67.5°	2.1	2.6	3.6	4.7	4.7
70°	2.1	2.6	3.1	4.2	4.2
72.5°	2.1	2.6	3.1	3.6	4.2
75°	1.6	2.1	2.6	3.1	3.6
77.5°	1.6	2.1	2.1	3.1	3.1
80°	1.6	1.6	1.6	2.1	2.1
82.5°	1.6	1.6	1.0	1.6	1.6
85°	1.6	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)