

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: P1344885

Luminaire Tested: P3A13R309024DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1344885
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-62)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A13R309024DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R30 optic, 2400K CCT AND, 90CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

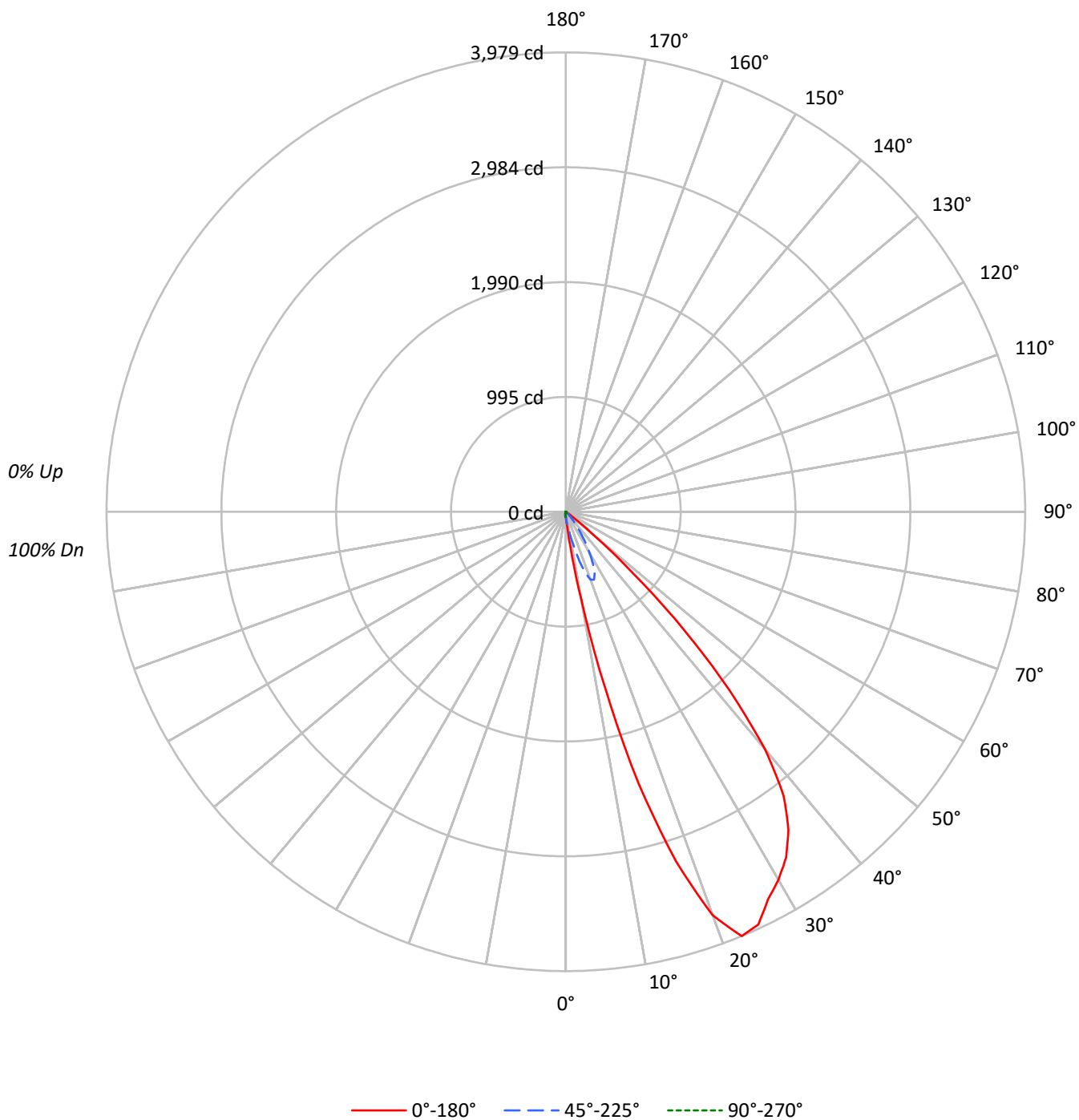
Lumens per Lamp: N/A
Luminaire Lumens: 938.1 lumens
Efficiency: N/A
Efficacy: 64.3 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.5 / 1.28
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	87	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	64	58	80	70	63	58	68	62	58		67	61	57		65
7	76	65	58	53	74	64	57	53	63	57	52		61	56	52		60
8	71	60	53	48	70	59	52	48	58	52	47		57	51	47		56
9	67	55	48	43	65	55	48	43	53	47	43		52	47	43		52
10	62	51	44	39	61	50	44	39	49	43	39		49	43	39		48

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	9780	9780	9780	9780	9780
5°	29430	19613	9245	4160	3390
10°	170427	41616	7259	1915	1336
15°	554351	94371	5062	386	204
20°	867445	146009	3197	0	0
25°	954370	142678	1669	0	0
30°	932118	102877	658	0	0
35°	899660	58518	241	0	0
40°	767209	24789	0	0	0
45°	450279	9303	279	0	279
50°	109370	1740	307	307	887
55°	9519	0	650	994	1300
60°	395	0	746	1140	1886
65°	467	467	1349	1349	2231
70°	577	577	1667	1667	2180
75°	0	763	2203	2203	2203
80°	0	1137	3283	2147	2147
85°	0	2264	6542	2264	2264

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 450279 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.2	0.9
10°-20°	128.9	13.7
20°-30°	327.6	34.9
30°-40°	326.5	34.8
40°-50°	132.3	14.1
50°-60°	9.1	1.0
60°-70°	2.1	0.2
70°-80°	2.1	0.2
80°-90°	1.2	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°	464.7	49.5
0°-40°	791.3	84.4
0°-60°	932.7	99.4
0°-90°	938.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	938.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	45	45	45	45	45	
5°	134	89	42	19	15	31
15°	2442	416	22	2	1	711
25°	3944	590	7	0	0	1781
35°	3361	219	1	0	0	2060
45°	1452	30	1	0	1	1108
55°	25	0	2	3	3	65
65°	1	1	3	3	4	1
75°	0	1	3	3	3	0
85°	0	1	3	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°	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6
2.5°	73.7	74.6	74.6	72.9	72.0	72.0	69.4	68.6	66.0	63.4	54.9
5°	133.7	131.1	127.7	127.7	120.0	115.7	109.7	102.9	97.7	89.1	63.4
7.5°	303.4	282.8	276.8	269.1	240.0	216.9	190.3	167.1	145.7	127.7	70.3
10°	765.4	725.1	691.7	624.0	539.1	457.7	382.3	294.8	234.9	186.9	75.4
12.5°	1542.0	1488.0	1423.7	1300.2	1141.7	938.5	758.5	566.6	397.7	275.1	77.1
15°	2441.9	2350.2	2249.9	2093.1	1833.4	1542.0	1217.1	911.1	638.6	415.7	75.4
17.5°	3175.6	3139.6	2991.3	2777.1	2459.1	2083.7	1683.4	1265.1	861.4	544.3	70.3
20°	3717.3	3692.5	3513.3	3285.3	2927.1	2496.8	1988.5	1486.2	1016.5	625.7	62.6
22.5°	3978.7	3974.5	3845.0	3611.9	3232.2	2744.5	2184.8	1614.0	1064.5	636.8	52.3
25°	3944.5	3959.9	3886.2	3713.0	3348.8	2846.5	2243.1	1614.0	1029.4	589.7	43.7
27.5°	3788.5	3798.7	3752.5	3619.6	3280.2	2772.8	2161.6	1510.2	927.4	506.6	36.0
30°	3681.3	3685.6	3628.2	3485.9	3125.9	2604.8	1969.7	1318.2	773.1	406.3	26.6
32.5°	3551.0	3550.2	3483.3	3320.5	2923.6	2369.1	1726.2	1089.4	594.0	308.6	15.4
35°	3360.8	3339.3	3248.5	3060.8	2621.9	2051.9	1415.1	829.7	427.7	218.6	9.4
37.5°	3099.3	3043.6	2915.1	2663.9	2198.5	1608.8	1049.1	582.8	292.3	144.9	6.0
40°	2680.2	2621.1	2446.2	2141.1	1662.8	1158.0	707.1	379.7	184.3	86.6	3.4
42.5°	2101.7	2061.4	1825.7	1521.4	1098.0	738.8	425.1	224.6	103.7	49.7	0.9
45°	1452.0	1399.7	1214.5	956.5	659.1	409.7	238.3	117.4	59.1	30.0	0.0
47.5°	801.4	737.1	630.0	495.4	331.7	215.1	120.0	63.4	33.4	14.6	0.0
50°	320.6	318.0	252.8	180.0	126.9	97.7	60.0	34.3	17.1	5.1	0.9
52.5°	112.3	112.3	96.9	78.9	61.7	44.6	30.0	16.3	6.0	1.7	0.9
55°	24.9	27.4	25.7	24.0	23.1	19.7	12.9	6.0	1.7	0.0	0.9
57.5°	2.6	2.6	2.6	3.4	4.3	4.3	3.4	1.7	0.0	0.0	0.9
60°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.0	1.7
62.5°	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.9	0.9	1.7
65°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.7
67.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.7
70°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	2.6
72.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	2.6
75°	0.0	0.0	0.9	0.9	0.0	0.9	0.9	0.9	0.9	0.9	2.6
77.5°	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9	0.9	0.9	1.7
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9	1.7
82.5°	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9	0.9	1.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	1.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	1.7
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°	44.6	44.6	44.6	44.6	44.6
2.5°	44.6	35.1	29.1	25.7	24.9
5°	42.0	26.6	18.9	16.3	15.4
7.5°	37.7	19.7	12.9	10.3	9.4
10°	32.6	14.6	8.6	6.0	6.0
12.5°	27.4	11.1	5.1	2.6	1.7
15°	22.3	6.9	1.7	0.9	0.9
17.5°	17.1	4.3	0.0	0.0	0.0
20°	13.7	1.7	0.0	0.0	0.0
22.5°	10.3	0.9	0.0	0.0	0.0
25°	6.9	0.0	0.0	0.0	0.0
27.5°	4.3	0.0	0.0	0.0	0.0
30°	2.6	0.0	0.0	0.0	0.0
32.5°	0.9	0.0	0.0	0.0	0.0
35°	0.9	0.0	0.0	0.0	0.0
37.5°	0.0	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0	0.0
45°	0.9	0.0	0.0	0.9	0.9
47.5°	0.9	0.9	0.9	1.7	1.7
50°	0.9	0.9	0.9	1.7	2.6
52.5°	1.7	0.9	1.7	2.6	2.6
55°	1.7	1.7	2.6	3.4	3.4
57.5°	1.7	1.7	2.6	3.4	3.4
60°	1.7	1.7	2.6	3.4	4.3
62.5°	2.6	2.6	2.6	3.4	3.4
65°	2.6	2.6	2.6	3.4	4.3
67.5°	2.6	2.6	2.6	3.4	4.3
70°	2.6	2.6	2.6	3.4	3.4
72.5°	3.4	2.6	2.6	3.4	3.4
75°	2.6	2.6	2.6	2.6	2.6
77.5°	2.6	2.6	1.7	2.6	2.6
80°	2.6	1.7	1.7	1.7	1.7
82.5°	2.6	1.7	1.7	1.7	1.7
85°	2.6	1.7	0.9	0.9	0.9
87.5°	2.6	1.7	0.9	0.9	0.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)