

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: P1345027

Luminaire Tested: P3A13R309735DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1345027
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: P3A13R309735DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R30 optic, 3500K CCT AND, 97CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

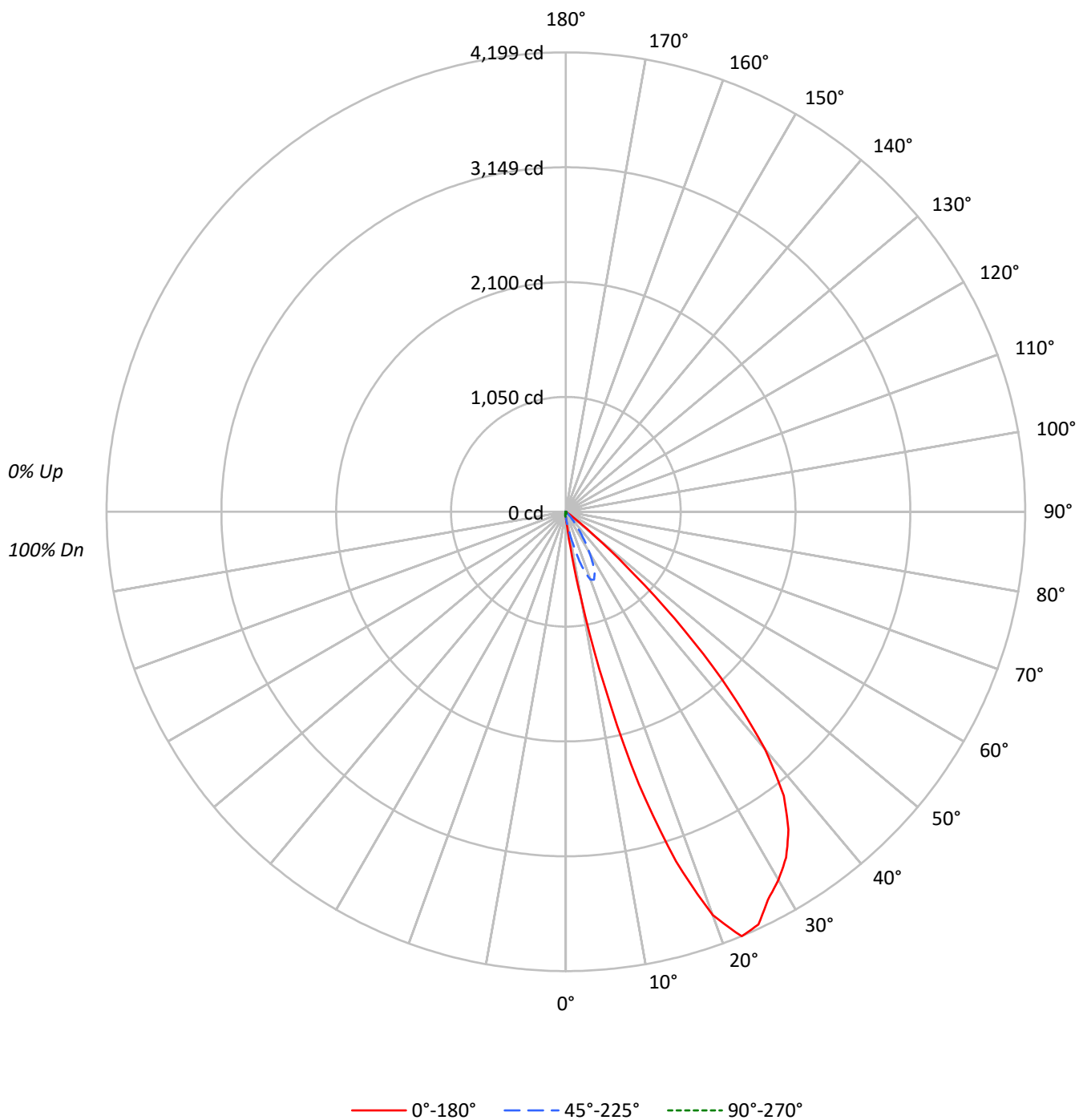
Lumens per Lamp: N/A
Luminaire Lumens: 990.0 lumens
Efficiency: N/A
Efficacy: 67.8 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.5 / 1.28
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92		
2	106	100	95	92	103	98	94	90	95	92	88	92	89	87	89	87	85	83		
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	79	77	75		
4	93	84	77	72	91	83	77	72	80	75	71	78	74	70	76	73	69	68		
5	87	77	70	65	85	76	69	65	74	68	64	72	67	63	71	66	63	61		
6	81	71	64	58	80	70	63	58	68	62	58	67	61	57	65	61	57	55		
7	76	65	58	53	74	64	57	53	63	57	52	61	56	52	60	55	52	50		
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45		
9	67	55	48	43	65	55	48	43	53	47	43	52	47	43	52	46	43	41		
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	10306	10306	10306	10306	10306
5°	31059	20713	9751	4380	3588
10°	179868	43909	7660	2004	1403
15°	585088	99592	5335	409	204
20°	915540	154107	3384	0	0
25°	1007260	150589	1742	0	0
30°	983797	108574	684	0	0
35°	949531	61757	241	0	0
40°	809746	26163	0	0	0
45°	475212	9830	279	0	279
50°	115408	1842	307	307	921
55°	10016	0	688	1032	1376
60°	395	0	789	1184	1974
65°	467	467	1401	1401	2335
70°	577	577	1731	1731	2308
75°	0	763	2288	2288	2288
80°	0	1137	3410	2273	2273
85°	0	2264	6793	2264	2264

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 475212 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.6	0.9
10°-20°	136.1	13.7
20°-30°	345.8	34.9
30°-40°	344.6	34.8
40°-50°	139.6	14.1
50°-60°	9.6	1.0
60°-70°	2.2	0.2
70°-80°	2.2	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°	490.5	49.5
0°-40°	835.1	84.4
0°-60°	984.4	99.4
0°-90°	990.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	990.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	47	47	47	47	47	
5°	141	94	44	20	16	33
15°	2577	439	24	2	1	750
25°	4163	622	7	0	0	1880
35°	3547	231	1	0	0	2174
45°	1532	32	1	0	1	1169
55°	26	0	2	3	4	69
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°	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0
2.5°	77.8	78.7	78.7	76.9	76.0	76.0	73.3	72.4	69.7	66.9	57.9
5°	141.1	138.4	134.8	134.8	126.6	122.1	115.8	108.6	103.1	94.1	66.9
7.5°	320.2	298.5	292.2	284.1	253.3	228.9	200.8	176.4	153.8	134.8	74.2
10°	807.8	765.3	730.0	658.6	569.0	483.1	403.5	311.2	247.9	197.2	79.6
12.5°	1627.4	1570.4	1502.6	1372.3	1205.0	990.6	800.6	598.0	419.7	290.4	81.4
15°	2577.3	2480.5	2374.7	2209.1	1935.0	1627.4	1284.6	961.6	674.0	438.7	79.6
17.5°	3351.7	3313.7	3157.2	2931.0	2595.4	2199.2	1776.7	1335.2	909.2	574.4	74.2
20°	3923.4	3897.2	3708.1	3467.5	3089.3	2635.2	2098.7	1568.6	1072.9	660.4	66.0
22.5°	4199.3	4194.8	4058.2	3812.1	3411.4	2896.6	2305.9	1703.4	1123.6	672.1	55.2
25°	4163.1	4179.4	4101.6	3918.9	3534.4	3004.3	2367.4	1703.4	1086.5	622.4	46.1
27.5°	3998.5	4009.3	3960.5	3820.3	3462.0	2926.5	2281.5	1594.0	978.8	534.6	38.0
30°	3885.4	3889.9	3829.3	3679.1	3299.2	2749.2	2078.8	1391.3	816.0	428.8	28.0
32.5°	3747.9	3747.0	3676.4	3504.5	3085.7	2500.4	1821.9	1149.8	626.9	325.7	16.3
35°	3547.1	3524.5	3428.6	3230.4	2767.3	2165.7	1493.5	875.7	451.4	230.7	10.0
37.5°	3271.2	3212.4	3076.7	2811.6	2320.4	1698.0	1107.3	615.2	308.5	152.9	6.3
40°	2828.8	2766.4	2581.8	2259.8	1755.0	1222.2	746.3	400.8	194.5	91.4	3.6
42.5°	2218.2	2175.6	1926.9	1605.7	1158.8	779.8	448.7	237.0	109.5	52.5	0.9
45°	1532.4	1477.3	1281.9	1009.6	695.7	432.4	251.5	123.9	62.4	31.7	0.0
47.5°	845.8	778.0	664.9	522.9	350.1	227.1	126.6	66.9	35.3	15.4	0.0
50°	338.3	335.6	266.9	190.0	133.9	103.1	63.3	36.2	18.1	5.4	0.9
52.5°	118.5	118.5	102.2	83.2	65.1	47.0	31.7	17.2	6.3	1.8	0.9
55°	26.2	28.9	27.1	25.3	24.4	20.8	13.6	6.3	1.8	0.0	0.9
57.5°	2.7	2.7	2.7	3.6	4.5	4.5	3.6	1.8	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	1.8
62.5°	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.9	0.9	1.8
65°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.8
67.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.8
70°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	2.7
72.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	2.7
75°	0.0	0.0	0.9	0.9	0.0	0.9	0.9	0.9	0.9	0.9	2.7
77.5°	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9	0.9	0.9	1.8
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9	1.8
82.5°	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9	0.9	1.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	1.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	1.8
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°	47.0	47.0	47.0	47.0	47.0
2.5°	47.0	37.1	30.8	27.1	26.2
5°	44.3	28.0	19.9	17.2	16.3
7.5°	39.8	20.8	13.6	10.9	10.0
10°	34.4	15.4	9.0	6.3	6.3
12.5°	28.9	11.8	5.4	2.7	1.8
15°	23.5	7.2	1.8	0.9	0.9
17.5°	18.1	4.5	0.0	0.0	0.0
20°	14.5	1.8	0.0	0.0	0.0
22.5°	10.9	0.9	0.0	0.0	0.0
25°	7.2	0.0	0.0	0.0	0.0
27.5°	4.5	0.0	0.0	0.0	0.0
30°	2.7	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	1.8	1.8
50°	0.9	0.9	0.9	1.8	2.7
52.5°	1.8	0.9	1.8	2.7	2.7
55°	1.8	1.8	2.7	3.6	3.6
57.5°	1.8	1.8	2.7	3.6	3.6
60°	1.8	1.8	2.7	3.6	4.5
62.5°	2.7	2.7	2.7	3.6	3.6
65°	2.7	2.7	2.7	3.6	4.5
67.5°	2.7	2.7	2.7	3.6	4.5
70°	2.7	2.7	2.7	3.6	3.6
72.5°	3.6	2.7	2.7	3.6	3.6
75°	2.7	2.7	2.7	2.7	2.7
77.5°	2.7	2.7	1.8	2.7	2.7
80°	2.7	1.8	1.8	1.8	1.8
82.5°	2.7	1.8	1.8	1.8	1.8
85°	2.7	1.8	0.9	0.9	0.9
87.5°	2.7	1.8	0.9	0.9	0.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)