

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: P1345043

Luminaire Tested: P3A13R309740DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1345043
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: P3A13R309740DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R30 optic, 4000K CCT AND, 97CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

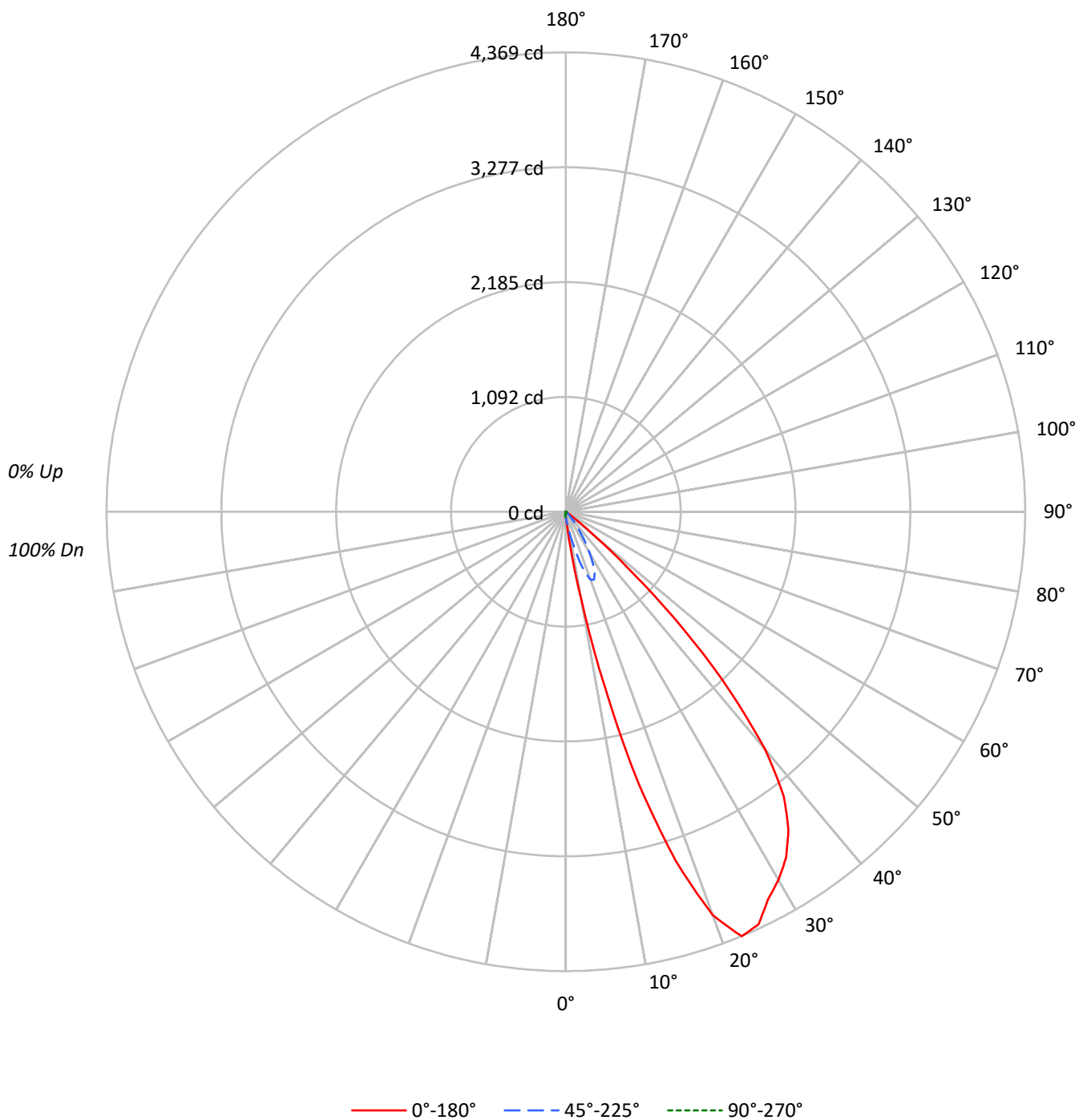
Lumens per Lamp: N/A
Luminaire Lumens: 1029.9 lumens
Efficiency: N/A
Efficacy: 70.5 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.5 / 1.28
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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°	10723	10723	10723	10723	10723
5°	32313	21550	10147	4556	3720
10°	187149	45691	7971	2093	1470
15°	608721	103633	5562	431	204
20°	952526	160337	3524	0	0
25°	1047956	156662	1815	0	0
30°	1023550	112954	709	0	0
35°	987892	64246	241	0	0
40°	842464	27222	0	0	0
45°	494439	10203	279	0	279
50°	120081	1910	307	307	955
55°	10437	0	726	1070	1453
60°	395	0	833	1228	2061
65°	467	467	1453	1453	2439
70°	577	577	1795	1795	2436
75°	0	763	2372	2372	2372
80°	0	1137	3536	2399	2399
85°	0	2264	7045	2264	2264

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 494439 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.0	0.9
10°-20°	141.6	13.7
20°-30°	359.7	34.9
30°-40°	358.6	34.8
40°-50°	145.3	14.1
50°-60°	10.0	1.0
60°-70°	2.3	0.2
70°-80°	2.2	0.2
80°-90°	1.3	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°	510.3	49.5
0°-40°	868.9	84.4
0°-60°	1024.1	99.4
0°-90°	1029.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1029.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	49	49	49	49	49	
5°	147	98	46	21	17	34
15°	2681	456	24	2	1	780
25°	4331	648	8	0	0	1956
35°	3690	240	1	0	0	2262
45°	1594	33	1	0	1	1216
55°	27	0	2	3	4	71
65°	1	1	3	3	5	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°	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9
2.5°	80.9	81.9	81.9	80.0	79.1	79.1	76.2	75.3	72.5	69.6	60.2
5°	146.8	144.0	140.2	140.2	131.8	127.1	120.5	112.9	107.3	97.9	69.6
7.5°	333.2	310.6	304.0	295.5	263.5	238.1	208.9	183.5	160.0	140.2	77.2
10°	840.5	796.2	759.5	685.2	592.0	502.6	419.8	323.8	257.9	205.2	82.8
12.5°	1693.2	1633.9	1563.3	1427.8	1253.7	1030.6	832.9	622.1	436.7	302.1	84.7
15°	2681.4	2580.7	2470.6	2298.4	2013.2	1693.2	1336.5	1000.5	701.2	456.5	82.8
17.5°	3487.1	3447.6	3284.7	3049.4	2700.3	2288.0	1848.5	1389.2	945.9	597.7	77.2
20°	4081.9	4054.6	3857.9	3607.6	3214.1	2741.7	2183.5	1632.0	1116.2	687.1	68.7
22.5°	4369.0	4364.3	4222.2	3966.1	3549.2	3013.7	2399.1	1772.2	1169.0	699.3	57.4
25°	4331.3	4348.3	4267.3	4077.2	3677.2	3125.7	2463.1	1772.2	1130.4	647.5	48.0
27.5°	4160.0	4171.3	4120.5	3974.6	3601.9	3044.7	2373.7	1658.4	1018.4	556.2	39.5
30°	4042.4	4047.1	3984.0	3827.8	3432.5	2860.3	2162.8	1447.5	848.9	446.1	29.2
32.5°	3899.3	3898.4	3825.0	3646.1	3210.4	2601.4	1895.5	1196.2	652.2	338.8	16.9
35°	3690.4	3666.9	3567.1	3361.0	2879.1	2253.2	1553.9	911.1	469.7	240.0	10.4
37.5°	3403.3	3342.1	3201.0	2925.2	2414.1	1766.6	1152.0	640.0	320.9	159.1	6.6
40°	2943.1	2878.1	2686.1	2351.1	1825.9	1271.5	776.5	416.9	202.4	95.1	3.8
42.5°	2307.8	2263.5	2004.7	1670.6	1205.7	811.3	466.8	246.6	113.9	54.6	0.9
45°	1594.4	1537.0	1333.7	1050.4	723.8	449.9	261.6	128.9	64.9	32.9	0.0
47.5°	880.0	809.4	691.8	544.0	364.2	236.2	131.8	69.6	36.7	16.0	0.0
50°	352.0	349.2	277.6	197.6	139.3	107.3	65.9	37.6	18.8	5.6	0.9
52.5°	123.3	123.3	106.4	86.6	67.8	48.9	32.9	17.9	6.6	1.9	0.9
55°	27.3	30.1	28.2	26.4	25.4	21.6	14.1	6.6	1.9	0.0	0.9
57.5°	2.8	2.8	2.8	3.8	4.7	4.7	3.8	1.9	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	1.9
62.5°	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.9	0.9	1.9
65°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.9
67.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.9
70°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	2.8
72.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	2.8
75°	0.0	0.0	0.9	0.9	0.0	0.9	0.9	0.9	0.9	0.9	2.8
77.5°	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9	0.9	0.9	1.9
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9	1.9
82.5°	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9	0.9	1.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	1.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	1.9
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°	48.9	48.9	48.9	48.9	48.9
2.5°	48.9	38.6	32.0	28.2	27.3
5°	46.1	29.2	20.7	17.9	16.9
7.5°	41.4	21.6	14.1	11.3	10.4
10°	35.8	16.0	9.4	6.6	6.6
12.5°	30.1	12.2	5.6	2.8	1.9
15°	24.5	7.5	1.9	0.9	0.9
17.5°	18.8	4.7	0.0	0.0	0.0
20°	15.1	1.9	0.0	0.0	0.0
22.5°	11.3	0.9	0.0	0.0	0.0
25°	7.5	0.0	0.0	0.0	0.0
27.5°	4.7	0.0	0.0	0.0	0.0
30°	2.8	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	1.9	1.9
50°	0.9	0.9	0.9	1.9	2.8
52.5°	1.9	0.9	1.9	2.8	2.8
55°	1.9	1.9	2.8	3.8	3.8
57.5°	1.9	1.9	2.8	3.8	3.8
60°	1.9	1.9	2.8	3.8	4.7
62.5°	2.8	2.8	2.8	3.8	3.8
65°	2.8	2.8	2.8	3.8	4.7
67.5°	2.8	2.8	2.8	3.8	4.7
70°	2.8	2.8	2.8	3.8	3.8
72.5°	3.8	2.8	2.8	3.8	3.8
75°	2.8	2.8	2.8	2.8	2.8
77.5°	2.8	2.8	1.9	2.8	2.8
80°	2.8	1.9	1.9	1.9	1.9
82.5°	2.8	1.9	1.9	1.9	1.9
85°	2.8	1.9	0.9	0.9	0.9
87.5°	2.8	1.9	0.9	0.9	0.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)