

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: P1345107

Luminaire Tested: P3A13R309840DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1345107
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: P3A13R309840DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R30 optic, 4000K CCT AND, 98CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

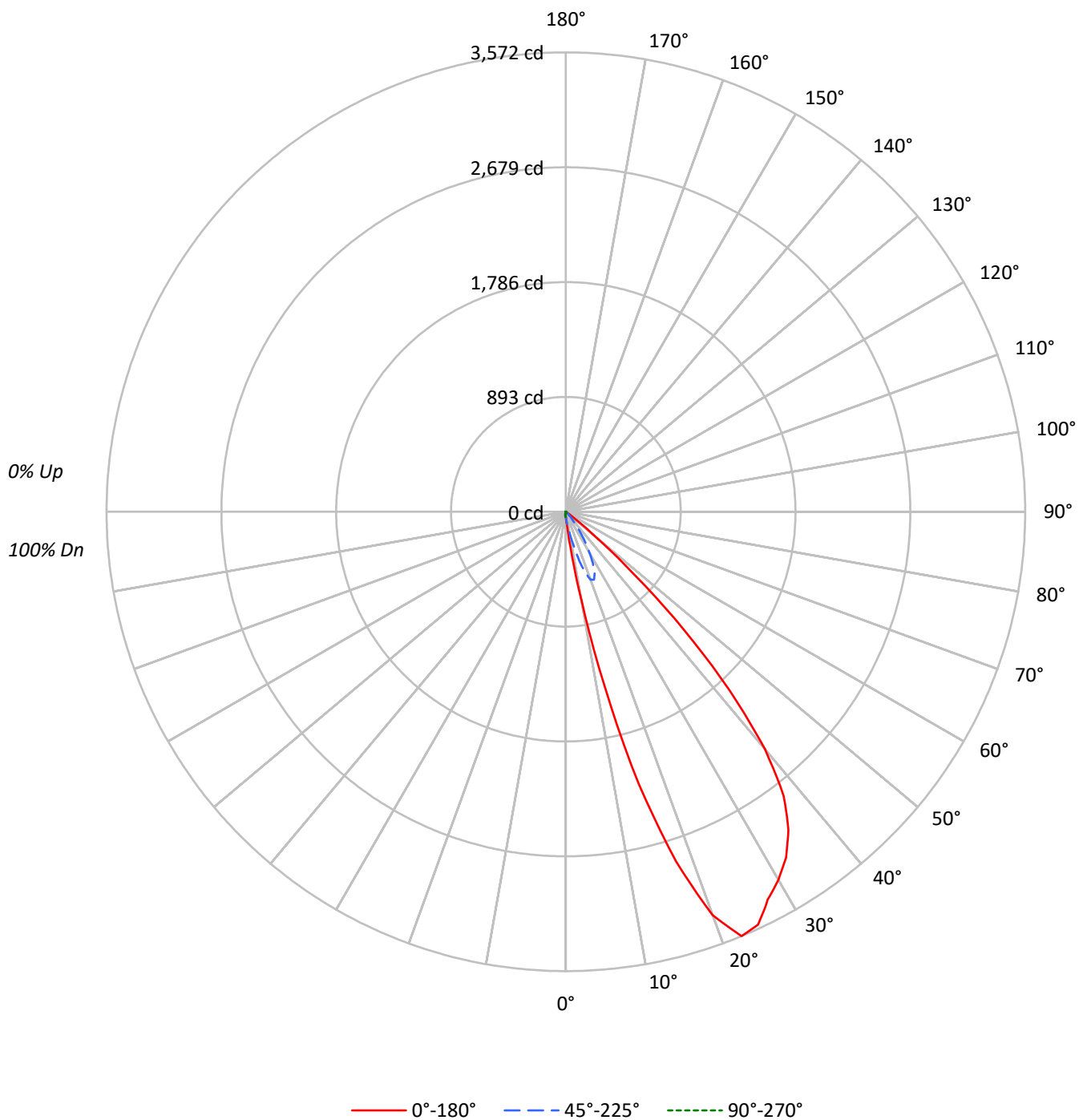
Lumens per Lamp: N/A
Luminaire Lumens: 842.0 lumens
Efficiency: N/A
Efficacy: 58.1 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.5 / 1.28
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.5
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°	8771	8771	8771	8771	8771
5°	26414	17609	8298	3720	3038
10°	152992	37341	6502	1715	1202
15°	497619	84722	4540	341	182
20°	778678	131075	2870	0	0
25°	856695	128064	1500	0	0
30°	836736	92343	582	0	0
35°	807574	52521	214	0	0
40°	688690	22242	0	0	0
45°	404197	8342	248	0	248
50°	98180	1569	273	273	785
55°	8525	0	573	879	1185
60°	351	0	658	1009	1667
65°	415	415	1193	1193	1972
70°	513	513	1475	1475	1988
75°	0	678	1949	1949	1949
80°	0	1010	2904	1894	1894
85°	0	2013	5787	2013	2013

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 404197 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.3	0.9
10°-20°	115.7	13.7
20°-30°	294.1	34.9
30°-40°	293.1	34.8
40°-50°	118.8	14.1
50°-60°	8.2	1.0
60°-70°	1.9	0.2
70°-80°	1.9	0.2
80°-90°	1.1	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°	417.2	49.5
0°-40°	710.3	84.4
0°-60°	837.2	99.4
0°-90°	842.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	842.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	40	40	40	40	40	
5°	120	80	38	17	14	28
15°	2192	373	20	2	1	638
25°	3541	529	6	0	0	1599
35°	3017	196	1	0	0	1849
45°	1303	27	1	0	1	994
55°	22	0	2	2	3	58
65°	1	1	2	2	4	1
75°	0	1	2	2	2	0
85°	0	1	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°	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0
2.5°	66.2	66.9	66.9	65.4	64.6	64.6	62.3	61.6	59.2	56.9	49.2
5°	120.0	117.7	114.6	114.6	107.7	103.9	98.5	92.3	87.7	80.0	56.9
7.5°	272.4	253.9	248.5	241.6	215.4	194.7	170.8	150.0	130.8	114.6	63.1
10°	687.1	650.9	620.9	560.1	483.9	410.9	343.2	264.7	210.8	167.7	67.7
12.5°	1384.1	1335.7	1278.0	1167.2	1024.8	842.5	680.9	508.6	357.0	247.0	69.2
15°	2192.0	2109.7	2019.7	1878.9	1645.7	1384.1	1092.5	817.9	573.2	373.2	67.7
17.5°	2850.6	2818.3	2685.2	2492.8	2207.4	1870.4	1511.1	1135.6	773.2	488.6	63.1
20°	3336.9	3314.6	3153.8	2949.1	2627.5	2241.2	1785.0	1334.1	912.5	561.7	56.2
22.5°	3571.5	3567.7	3451.5	3242.2	2901.4	2463.6	1961.2	1448.8	955.6	571.7	46.9
25°	3540.8	3554.6	3488.4	3333.0	3006.0	2555.2	2013.5	1448.8	924.0	529.3	39.2
27.5°	3400.7	3410.0	3368.4	3249.2	2944.5	2489.0	1940.4	1355.7	832.5	454.7	32.3
30°	3304.6	3308.4	3256.8	3129.1	2806.0	2338.2	1768.1	1183.3	694.0	364.7	23.9
32.5°	3187.6	3186.8	3126.8	2980.6	2624.4	2126.6	1549.6	977.9	533.2	277.0	13.8
35°	3016.8	2997.6	2916.0	2747.5	2353.6	1841.9	1270.3	744.8	383.9	196.2	8.5
37.5°	2782.1	2732.1	2616.7	2391.3	1973.5	1444.2	941.7	523.2	262.4	130.0	5.4
40°	2405.9	2352.8	2195.9	1921.9	1492.6	1039.5	634.8	340.8	165.4	77.7	3.1
42.5°	1886.6	1850.4	1638.8	1365.7	985.6	663.2	381.6	201.6	93.1	44.6	0.8
45°	1303.4	1256.4	1090.2	858.6	591.7	367.8	213.9	105.4	53.1	26.9	0.0
47.5°	719.4	661.7	565.5	444.7	297.8	193.1	107.7	56.9	30.0	13.1	0.0
50°	287.8	285.4	227.0	161.6	113.9	87.7	53.9	30.8	15.4	4.6	0.8
52.5°	100.8	100.8	86.9	70.8	55.4	40.0	26.9	14.6	5.4	1.5	0.8
55°	22.3	24.6	23.1	21.5	20.8	17.7	11.5	5.4	1.5	0.0	0.8
57.5°	2.3	2.3	2.3	3.1	3.8	3.8	3.1	1.5	0.0	0.0	0.8
60°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	1.5
62.5°	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.8	0.8	1.5
65°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.5
67.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.5
70°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	2.3
72.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	2.3
75°	0.0	0.0	0.8	0.8	0.0	0.8	0.8	0.8	0.8	0.8	2.3
77.5°	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8	1.5
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	1.5
82.5°	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8	1.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	1.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	1.5
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°	40.0	40.0	40.0	40.0	40.0
2.5°	40.0	31.5	26.2	23.1	22.3
5°	37.7	23.9	16.9	14.6	13.8
7.5°	33.9	17.7	11.5	9.2	8.5
10°	29.2	13.1	7.7	5.4	5.4
12.5°	24.6	10.0	4.6	2.3	1.5
15°	20.0	6.2	1.5	0.8	0.8
17.5°	15.4	3.8	0.0	0.0	0.0
20°	12.3	1.5	0.0	0.0	0.0
22.5°	9.2	0.8	0.0	0.0	0.0
25°	6.2	0.0	0.0	0.0	0.0
27.5°	3.8	0.0	0.0	0.0	0.0
30°	2.3	0.0	0.0	0.0	0.0
32.5°	0.8	0.0	0.0	0.0	0.0
35°	0.8	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°	0.8	0.0	0.0	0.8	0.8
47.5°	0.8	0.8	0.8	1.5	1.5
50°	0.8	0.8	0.8	1.5	2.3
52.5°	1.5	0.8	1.5	2.3	2.3
55°	1.5	1.5	2.3	3.1	3.1
57.5°	1.5	1.5	2.3	3.1	3.1
60°	1.5	1.5	2.3	3.1	3.8
62.5°	2.3	2.3	2.3	3.1	3.1
65°	2.3	2.3	2.3	3.1	3.8
67.5°	2.3	2.3	2.3	3.1	3.8
70°	2.3	2.3	2.3	3.1	3.1
72.5°	3.1	2.3	2.3	3.1	3.1
75°	2.3	2.3	2.3	2.3	2.3
77.5°	2.3	2.3	1.5	2.3	2.3
80°	2.3	1.5	1.5	1.5	1.5
82.5°	2.3	1.5	1.5	1.5	1.5
85°	2.3	1.5	0.8	0.8	0.8
87.5°	2.3	1.5	0.8	0.8	0.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)