

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: P1335061

Luminaire Tested: P3A02R309727DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1335061
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: P3A02R309727DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R30 optic, 2700K CCT AND, 97CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

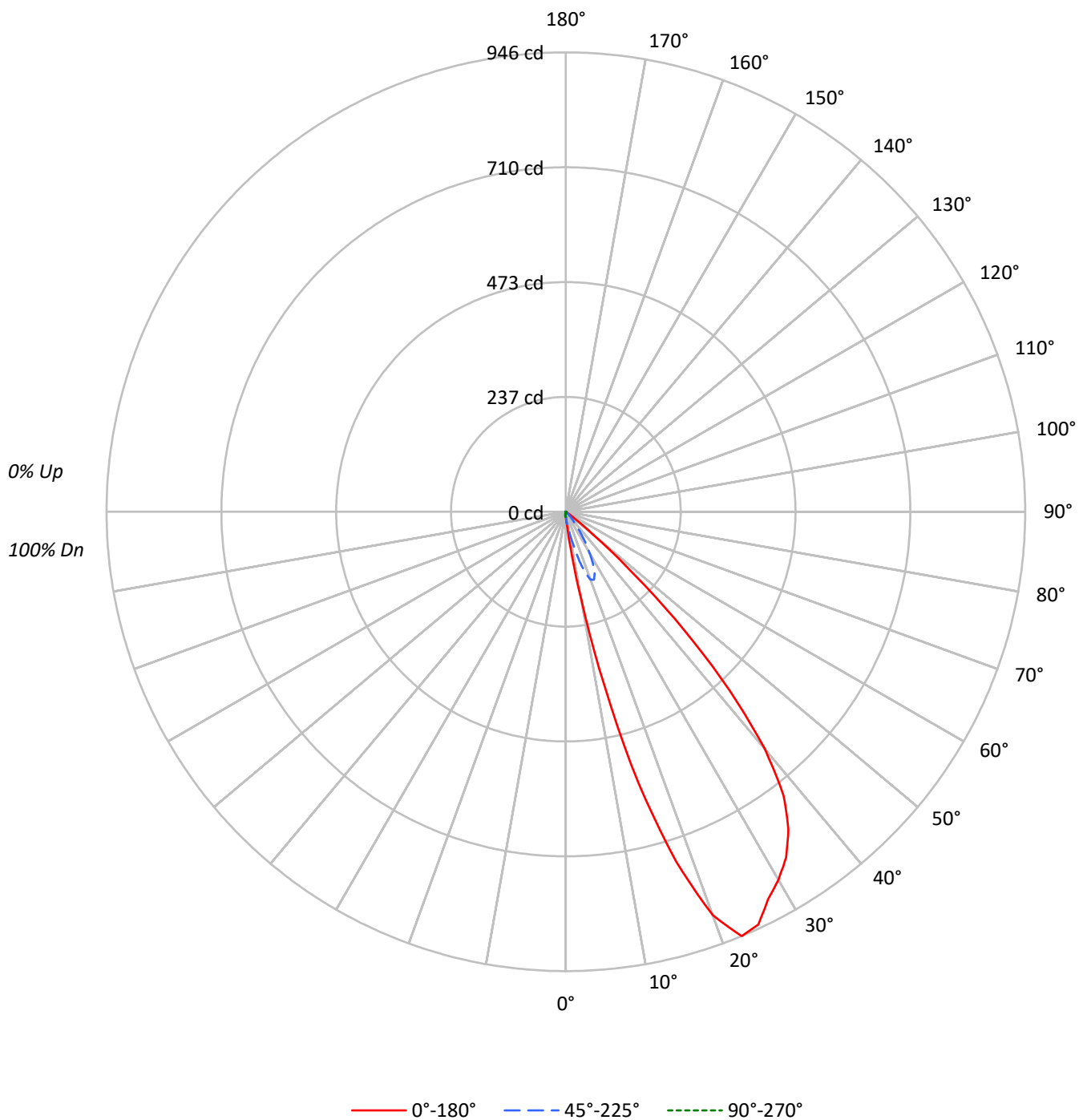
Lumens per Lamp: N/A
Luminaire Lumens: 223.0 lumens
Efficiency: N/A
Efficacy: 61.9 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.5 / 1.28
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 3.6
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

TEST NUMBER: P1335061

CATALOG NUMBER: P3A02R309727DE010 E3CA301MW

Luminous Intensity Polar Plot



TEST NUMBER: P1335061

CATALOG NUMBER: P3A02R309727DE010 E3CA301MW

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	2324	2324	2324	2324	2324
5°	7000	4667	2201	991	814
10°	40525	9886	1715	445	312
15°	131783	22429	1203	91	45
20°	206238	34723	770	0	0
25°	226900	33921	387	0	0
30°	221604	24459	152	0	0
35°	213886	13920	54	0	0
40°	182399	5897	0	0	0
45°	107050	2202	62	0	62
50°	25995	409	68	68	205
55°	2256	0	153	229	306
60°	88	0	175	263	439
65°	104	104	311	311	519
70°	128	128	385	385	513
75°	0	169	508	508	508
80°	0	253	758	505	505
85°	0	503	1510	503	503

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 107050 cd/sqm

TEST NUMBER: P1335061

CATALOG NUMBER: P3A02R309727DE010 E3CA301MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.9	0.9
10°-20°	30.6	13.7
20°-30°	77.9	34.9
30°-40°	77.6	34.8
40°-50°	31.4	14.1
50°-60°	2.2	1.0
60°-70°	0.5	0.2
70°-80°	0.5	0.2
80°-90°	0.3	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°	110.5	49.6
0°-40°	188.1	84.4
0°-60°	221.7	99.4
0°-90°	223.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	223.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	11	11	11	11	11	
5°	32	21	10	4	4	7
15°	580	99	5	0	0	169
25°	938	140	2	0	0	423
35°	799	52	0	0	0	490
45°	345	7	0	0	0	263
55°	6	0	0	1	1	15
65°	0	0	1	1	1	0
75°	0	0	1	1	1	0
85°	0	0	1	0	0	0
90°	0	0	0	0	0	

TEST NUMBER: P1335061

CATALOG NUMBER: P3A02R309727DE010 E3CA301MW

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	67.5°
0°	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6
2.5°	17.5	17.7	17.7	17.3	17.1	17.1	16.5	16.3	15.7	15.1	13.0
5°	31.8	31.2	30.4	30.4	28.5	27.5	26.1	24.5	23.2	21.2	15.1
7.5°	72.1	67.2	65.8	64.0	57.1	51.6	45.2	39.7	34.6	30.4	16.7
10°	182.0	172.4	164.4	148.3	128.2	108.8	90.9	70.1	55.8	44.4	17.9
12.5°	366.6	353.7	338.5	309.1	271.4	223.1	180.3	134.7	94.5	65.4	18.3
15°	580.5	558.7	534.9	497.6	435.9	366.6	289.4	216.6	151.8	98.8	17.9
17.5°	755.0	746.4	711.2	660.2	584.6	495.4	400.2	300.8	204.8	129.4	16.7
20°	883.8	877.8	835.3	781.1	695.9	593.6	472.7	353.3	241.7	148.8	14.9
22.5°	945.9	944.9	914.1	858.7	768.4	652.5	519.4	383.7	253.1	151.4	12.4
25°	937.8	941.4	923.9	882.7	796.1	676.7	533.3	383.7	244.7	140.2	10.4
27.5°	900.7	903.1	892.1	860.5	779.8	659.2	513.9	359.0	220.5	120.4	8.6
30°	875.2	876.2	862.6	828.7	743.2	619.3	468.3	313.4	183.8	96.6	6.3
32.5°	844.2	844.0	828.1	789.4	695.1	563.2	410.4	259.0	141.2	73.4	3.7
35°	799.0	793.9	772.3	727.7	623.3	487.8	336.4	197.3	101.7	52.0	2.2
37.5°	736.8	723.6	693.0	633.3	522.7	382.5	249.4	138.6	69.5	34.4	1.4
40°	637.2	623.1	581.6	509.0	395.3	275.3	168.1	90.3	43.8	20.6	0.8
42.5°	499.6	490.1	434.0	361.7	261.0	175.7	101.1	53.4	24.7	11.8	0.2
45°	345.2	332.8	288.7	227.4	156.7	97.4	56.6	27.9	14.1	7.1	0.0
47.5°	190.5	175.2	149.8	117.8	78.9	51.1	28.5	15.1	7.9	3.5	0.0
50°	76.2	75.6	60.1	42.8	30.2	23.2	14.3	8.2	4.1	1.2	0.2
52.5°	26.7	26.7	23.0	18.7	14.7	10.6	7.1	3.9	1.4	0.4	0.2
55°	5.9	6.5	6.1	5.7	5.5	4.7	3.1	1.4	0.4	0.0	0.2
57.5°	0.6	0.6	0.6	0.8	1.0	1.0	0.8	0.4	0.0	0.0	0.2
60°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.4
62.5°	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.2	0.2	0.4
65°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4
67.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4
70°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.6
72.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.6
75°	0.0	0.0	0.2	0.2	0.0	0.2	0.2	0.2	0.2	0.2	0.6
77.5°	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.4
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.4
82.5°	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1335061

CATALOG NUMBER: P3A02R309727DE010 E3CA301MW

CANDELA DISTRIBUTION (continued):

	90°	112.5°	135°	157.5°	180°
0°	10.6	10.6	10.6	10.6	10.6
2.5°	10.6	8.4	6.9	6.1	5.9
5°	10.0	6.3	4.5	3.9	3.7
7.5°	9.0	4.7	3.1	2.4	2.2
10°	7.7	3.5	2.0	1.4	1.4
12.5°	6.5	2.6	1.2	0.6	0.4
15°	5.3	1.6	0.4	0.2	0.2
17.5°	4.1	1.0	0.0	0.0	0.0
20°	3.3	0.4	0.0	0.0	0.0
22.5°	2.4	0.2	0.0	0.0	0.0
25°	1.6	0.0	0.0	0.0	0.0
27.5°	1.0	0.0	0.0	0.0	0.0
30°	0.6	0.0	0.0	0.0	0.0
32.5°	0.2	0.0	0.0	0.0	0.0
35°	0.2	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°	0.2	0.0	0.0	0.2	0.2
47.5°	0.2	0.2	0.2	0.4	0.4
50°	0.2	0.2	0.2	0.4	0.6
52.5°	0.4	0.2	0.4	0.6	0.6
55°	0.4	0.4	0.6	0.8	0.8
57.5°	0.4	0.4	0.6	0.8	0.8
60°	0.4	0.4	0.6	0.8	1.0
62.5°	0.6	0.6	0.6	0.8	0.8
65°	0.6	0.6	0.6	0.8	1.0
67.5°	0.6	0.6	0.6	0.8	1.0
70°	0.6	0.6	0.6	0.8	0.8
72.5°	0.8	0.6	0.6	0.8	0.8
75°	0.6	0.6	0.6	0.6	0.6
77.5°	0.6	0.6	0.4	0.6	0.6
80°	0.6	0.4	0.4	0.4	0.4
82.5°	0.6	0.4	0.4	0.4	0.4
85°	0.6	0.4	0.2	0.2	0.2
87.5°	0.6	0.4	0.2	0.2	0.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)