

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: P1335669

Luminaire Tested: P3A02R409030DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1335669
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-64)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A02R409030DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R40 optic, 3000K CCT AND, 90CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

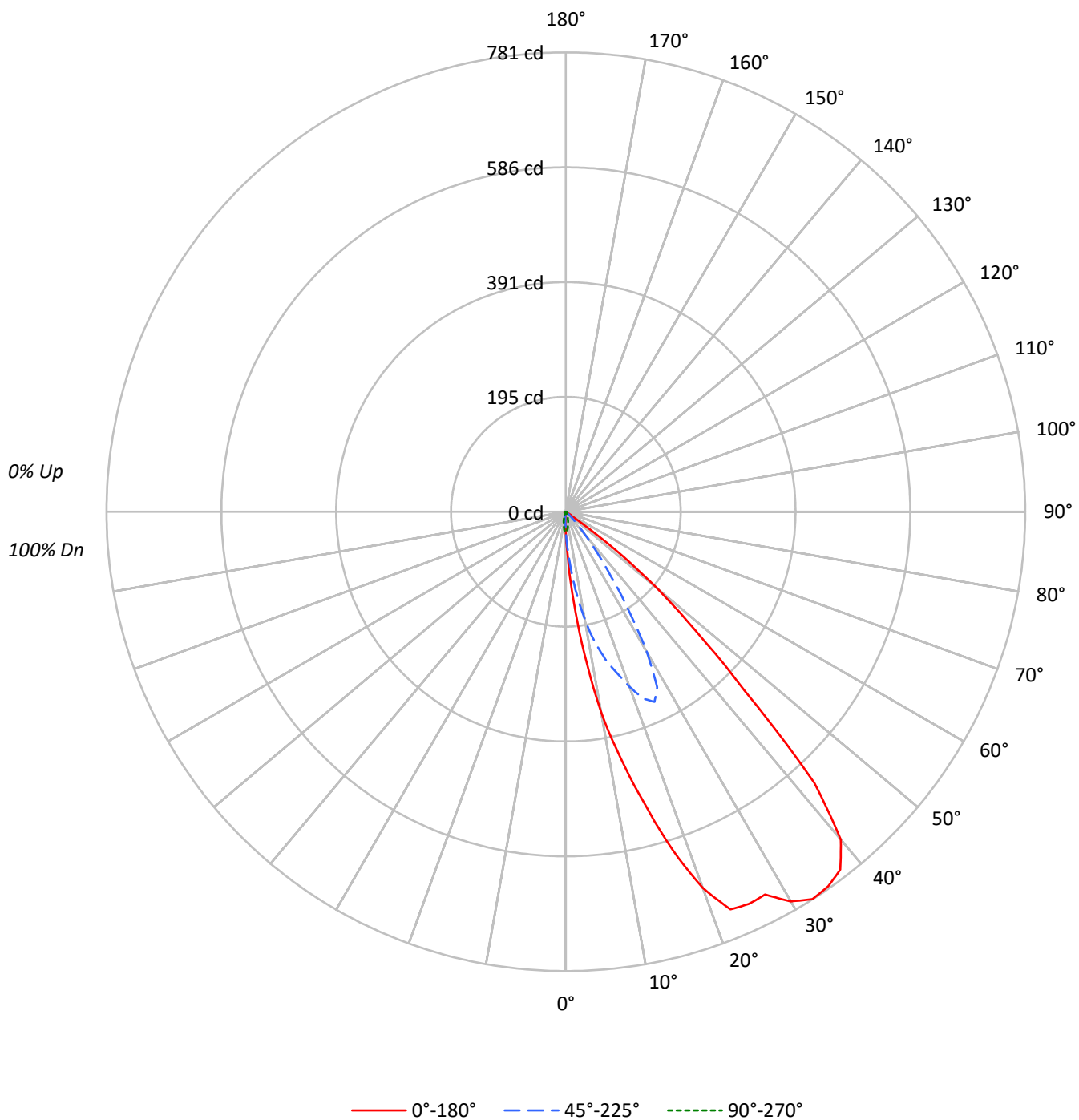
Lumens per Lamp: N/A
Luminaire Lumens: 287.9 lumens
Efficiency: N/A
Efficacy: 80.0 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.42 / 1.24
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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: P1335669

CATALOG NUMBER: P3A02R409030DE010 E3CA301MW

Luminous Intensity Polar Plot



TEST NUMBER: P1335669

CATALOG NUMBER: P3A02R409030DE010 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	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	93	93	91
2	105	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	84	84	82
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	76	76	74
4	92	83	77	71	90	82	76	71	80	74	70	78	73	69	76	72	68	68	68	67
5	86	76	69	64	84	75	68	64	73	67	63	71	66	62	70	65	62	62	62	60
6	80	70	63	57	79	69	62	57	67	61	57	66	60	56	64	60	56	56	56	54
7	75	64	57	52	74	63	56	52	62	56	51	61	55	51	59	54	51	51	51	49
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	46	46	44
9	66	54	47	42	65	54	47	42	53	46	42	52	46	42	51	46	42	42	42	40
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	38	38	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	7477	7477	7477	7477	7477
5°	33700	21484	6692	2575	1871
10°	77286	41527	4720	913	713
15°	115983	58911	2929	499	431
20°	158820	73833	1703	280	350
25°	178026	86279	895	242	290
30°	193650	69656	380	177	304
35°	208131	35630	134	268	402
40°	208190	14227	57	286	487
45°	132913	4745	155	465	682
50°	69013	580	239	580	819
55°	5964	76	268	726	1032
60°	219	88	307	833	1184
65°	259	104	519	882	1245
70°	128	128	641	962	1218
75°	169	169	593	1017	1440
80°	253	253	884	884	1263
85°	0	503	1761	1258	1258

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 132913 cd/sqm

TEST NUMBER: P1335669

CATALOG NUMBER: P3A02R409030DE010 E3CA301MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.6	2.3
10°-20°	39.0	13.5
20°-30°	85.4	29.6
30°-40°	97.3	33.8
40°-50°	51.3	17.8
50°-60°	6.0	2.1
60°-70°	1.1	0.4
70°-80°	0.9	0.3
80°-90°	0.4	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°	131.0	45.5
0°-40°	228.2	79.3
0°-60°	285.6	99.2
0°-90°	287.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	287.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	34	34	34	34	34	
5°	153	98	30	12	8	21
15°	511	260	13	2	2	151
25°	736	357	4	1	1	339
35°	778	133	0	1	2	482
45°	429	15	0	2	2	346
55°	16	0	1	2	3	48
65°	0	0	1	2	2	0
75°	0	0	1	1	2	0
85°	0	0	1	0	0	0
90°	0	0	0	0	0	

TEST NUMBER: P1335669

CATALOG NUMBER: P3A02R409030DE010 E3CA301MW

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	67.5°
0°	34.1	34.1	34.1	34.1	34.1	34.1	34.1	34.1	34.1	34.1	34.1
2.5°	75.9	75.9	75.7	73.5	73.3	73.0	69.1	68.2	63.5	60.4	46.0
5°	153.1	149.7	149.5	145.6	139.0	130.2	124.6	115.6	106.9	97.6	56.7
7.5°	243.9	246.8	238.8	234.6	220.0	209.6	193.5	179.4	159.7	141.2	65.5
10°	347.1	342.0	334.0	325.9	310.1	291.4	267.5	242.4	214.0	186.5	70.3
12.5°	427.7	421.1	416.2	405.3	389.7	365.6	337.1	303.5	265.8	226.1	70.1
15°	510.9	504.4	493.4	483.7	460.5	433.5	402.6	358.3	312.1	259.5	65.0
17.5°	602.4	593.9	581.8	566.9	544.5	514.6	475.4	421.3	355.9	286.7	55.7
20°	680.6	675.5	663.3	645.8	623.9	594.7	549.4	489.5	409.7	316.4	44.3
22.5°	731.7	727.1	718.8	703.5	686.9	655.8	614.4	548.7	454.7	343.5	33.6
25°	735.8	733.9	731.7	726.6	716.6	694.5	654.0	583.2	482.7	356.6	24.8
27.5°	733.6	732.9	732.4	729.8	723.2	701.3	659.9	588.3	479.0	336.2	18.3
30°	764.8	762.6	761.4	752.6	735.3	701.5	647.5	560.8	425.7	275.1	13.1
32.5°	780.6	780.1	778.9	770.4	746.1	702.0	626.5	494.4	337.6	198.6	9.0
35°	777.5	775.0	770.6	754.8	721.0	665.7	558.9	394.8	243.7	133.1	5.8
37.5°	766.7	761.2	752.6	724.2	679.1	603.7	453.2	290.6	165.8	86.2	3.4
40°	727.3	719.8	706.4	671.6	612.4	497.5	335.2	196.4	108.8	49.7	1.0
42.5°	625.3	615.6	605.9	566.9	499.2	371.0	220.5	121.5	62.1	27.3	0.2
45°	428.6	416.5	403.1	374.9	320.6	224.7	131.2	68.4	32.1	15.3	0.2
47.5°	297.7	292.1	268.7	232.7	178.4	119.0	67.9	33.6	17.0	7.1	0.2
50°	202.3	195.9	168.7	133.9	94.9	57.0	31.2	16.8	7.5	1.7	0.2
52.5°	106.1	98.3	81.1	61.8	38.5	23.9	13.6	7.3	2.2	0.2	0.2
55°	15.6	14.4	11.7	9.5	8.5	6.6	3.9	1.7	0.2	0.2	0.5
57.5°	0.5	0.5	0.5	0.5	0.7	0.7	0.5	0.2	0.2	0.2	0.5
60°	0.5	0.5	0.5	0.5	0.5	0.2	0.2	0.2	0.2	0.2	0.5
62.5°	0.5	0.5	0.5	0.5	0.5	0.2	0.2	0.2	0.2	0.2	0.5
65°	0.5	0.5	0.5	0.5	0.5	0.2	0.2	0.2	0.2	0.2	0.5
67.5°	0.5	0.5	0.5	0.5	0.2	0.2	0.2	0.2	0.2	0.5	0.7
70°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.7
72.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.5	0.7
75°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.7
77.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.5	0.7
80°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.5
82.5°	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.5
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: P1335669

CATALOG NUMBER: P3A02R409030DE010 E3CA301MW

CANDELA DISTRIBUTION (continued):

	90°	112.5°	135°	157.5°	180°
0°	34.1	34.1	34.1	34.1	34.1
2.5°	33.6	24.8	19.2	16.6	16.3
5°	30.4	17.8	11.7	9.0	8.5
7.5°	25.8	12.4	6.8	4.9	4.6
10°	21.2	8.5	4.1	3.4	3.2
12.5°	16.8	5.6	2.9	2.7	2.4
15°	12.9	3.7	2.2	1.9	1.9
17.5°	9.7	2.4	1.7	1.7	1.7
20°	7.3	1.7	1.2	1.5	1.5
22.5°	5.1	1.2	1.0	1.2	1.2
25°	3.7	1.0	1.0	1.2	1.2
27.5°	2.4	0.7	0.7	1.0	1.2
30°	1.5	0.5	0.7	1.0	1.2
32.5°	0.7	0.5	0.7	1.2	1.2
35°	0.5	0.7	1.0	1.2	1.5
37.5°	0.2	0.7	1.0	1.5	1.5
40°	0.2	0.7	1.0	1.5	1.7
42.5°	0.5	1.0	1.2	1.7	1.9
45°	0.5	1.0	1.5	1.9	2.2
47.5°	0.5	1.0	1.7	2.2	2.2
50°	0.7	1.2	1.7	2.2	2.4
52.5°	0.7	1.2	1.7	2.4	2.7
55°	0.7	1.2	1.9	2.4	2.7
57.5°	0.7	1.5	1.9	2.4	2.7
60°	0.7	1.2	1.9	2.4	2.7
62.5°	1.0	1.2	1.7	2.4	2.4
65°	1.0	1.2	1.7	2.4	2.4
67.5°	1.0	1.2	1.7	2.2	2.2
70°	1.0	1.2	1.5	1.9	1.9
72.5°	1.0	1.2	1.5	1.7	1.9
75°	0.7	1.0	1.2	1.5	1.7
77.5°	0.7	1.0	1.0	1.5	1.5
80°	0.7	0.7	0.7	1.0	1.0
82.5°	0.7	0.7	0.5	0.7	0.7
85°	0.7	0.5	0.5	0.5	0.5
87.5°	0.5	0.5	0.2	0.2	0.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)