

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: P1335637

Luminaire Tested: P3A02R409027DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1335637
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: P3A02R409027DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R40 optic, 2700K CCT AND, 90CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

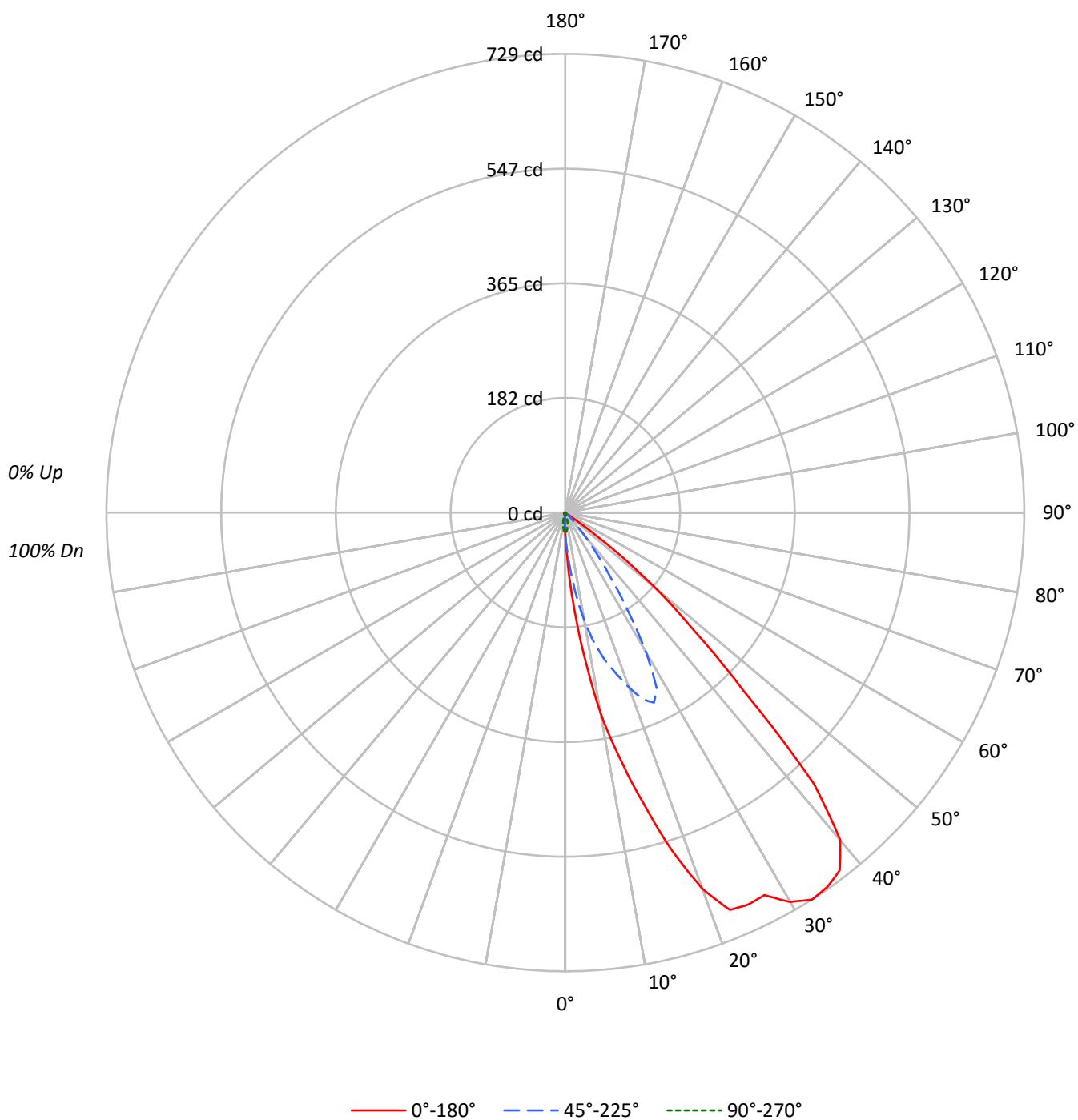
Lumens per Lamp: N/A
Luminaire Lumens: 269.0 lumens
Efficiency: N/A
Efficacy: 74.7 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.42 / 1.24
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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

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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	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	62	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	51	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°	6973	6973	6973	6973	6973
5°	31477	20075	6251	2399	1761
10°	72187	38788	4409	868	668
15°	108332	55029	2724	454	409
20°	148343	68979	1587	257	327
25°	166292	80593	823	218	266
30°	180863	65048	354	177	279
35°	194398	33301	134	241	375
40°	194450	13282	57	258	458
45°	124168	4435	155	434	620
50°	64441	546	239	546	785
55°	5582	76	268	688	956
60°	219	88	307	789	1096
65°	259	104	467	830	1193
70°	128	128	577	898	1154
75°	169	169	593	932	1356
80°	253	253	884	884	1137
85°	0	503	1761	1258	1258

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 124168 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.2	2.3
10°-20°	36.4	13.5
20°-30°	79.7	29.6
30°-40°	90.8	33.8
40°-50°	47.9	17.8
50°-60°	5.7	2.1
60°-70°	1.0	0.4
70°-80°	0.8	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°	122.3	45.5
0°-40°	213.2	79.2
0°-60°	266.8	99.2
0°-90°	269.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	269.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	32	32	32	32	32	
5°	143	91	28	11	8	19
15°	477	242	12	2	2	141
25°	687	333	3	1	1	317
35°	726	124	0	1	1	450
45°	400	14	0	1	2	323
55°	15	0	1	2	2	45
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	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	67.5°
0°	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8
2.5°	70.9	70.9	70.7	68.7	68.4	68.2	64.6	63.7	59.3	56.4	43.0
5°	143.0	139.8	139.6	136.0	129.8	121.6	116.4	108.0	99.8	91.2	53.0
7.5°	227.8	230.5	223.0	219.2	205.5	195.8	180.7	167.6	149.1	131.9	61.2
10°	324.2	319.4	311.9	304.4	289.6	272.1	249.9	226.4	199.8	174.2	65.7
12.5°	399.5	393.3	388.8	378.5	364.0	341.5	314.9	283.5	248.3	211.2	65.5
15°	477.2	471.1	460.8	451.8	430.2	404.9	376.0	334.7	291.5	242.4	60.7
17.5°	562.7	554.7	543.4	529.5	508.6	480.6	444.0	393.5	332.4	267.8	52.1
20°	635.7	630.9	619.5	603.2	582.7	555.4	513.1	457.2	382.6	295.6	41.4
22.5°	683.4	679.1	671.4	657.1	641.6	612.5	573.8	512.5	424.7	320.8	31.4
25°	687.3	685.5	683.4	678.7	669.3	648.6	610.9	544.7	450.8	333.1	23.2
27.5°	685.2	684.6	684.1	681.6	675.5	655.0	616.4	549.5	447.4	314.0	17.1
30°	714.3	712.3	711.2	703.0	686.8	655.2	604.8	523.8	397.6	256.9	12.3
32.5°	729.1	728.7	727.5	719.6	696.8	655.7	585.2	461.8	315.3	185.5	8.4
35°	726.2	723.9	719.8	705.0	673.4	621.8	522.0	368.8	227.6	124.4	5.5
37.5°	716.2	710.9	703.0	676.4	634.3	563.8	423.3	271.5	154.8	80.5	3.2
40°	679.3	672.3	659.8	627.3	572.0	464.7	313.1	183.5	101.6	46.4	0.9
42.5°	584.1	575.0	565.9	529.5	466.3	346.5	206.0	113.4	58.0	25.5	0.2
45°	400.4	389.0	376.5	350.1	299.4	209.8	122.5	63.9	30.0	14.3	0.2
47.5°	278.1	272.8	251.0	217.4	166.7	111.2	63.4	31.4	15.9	6.6	0.2
50°	188.9	183.0	157.6	125.0	88.7	53.2	29.1	15.7	7.0	1.6	0.2
52.5°	99.1	91.9	75.7	57.7	35.9	22.3	12.7	6.8	2.0	0.2	0.2
55°	14.6	13.4	10.9	8.9	8.0	6.1	3.6	1.6	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

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CANDELA DISTRIBUTION (continued):

	90°	112.5°	135°	157.5°	180°
0°	31.8	31.8	31.8	31.8	31.8
2.5°	31.4	23.2	18.0	15.5	15.2
5°	28.4	16.6	10.9	8.4	8.0
7.5°	24.1	11.6	6.4	4.5	4.3
10°	19.8	8.0	3.9	3.2	3.0
12.5°	15.7	5.2	2.7	2.5	2.3
15°	12.0	3.4	2.0	1.8	1.8
17.5°	9.1	2.3	1.6	1.6	1.6
20°	6.8	1.6	1.1	1.4	1.4
22.5°	4.8	1.1	0.9	1.1	1.1
25°	3.4	0.9	0.9	1.1	1.1
27.5°	2.3	0.7	0.7	0.9	1.1
30°	1.4	0.5	0.7	0.9	1.1
32.5°	0.7	0.5	0.7	1.1	1.1
35°	0.5	0.7	0.9	1.1	1.4
37.5°	0.2	0.7	0.9	1.4	1.4
40°	0.2	0.7	0.9	1.4	1.6
42.5°	0.5	0.9	1.1	1.6	1.8
45°	0.5	0.9	1.4	1.8	2.0
47.5°	0.5	0.9	1.6	2.0	2.0
50°	0.7	1.1	1.6	2.0	2.3
52.5°	0.7	1.1	1.6	2.3	2.5
55°	0.7	1.1	1.8	2.3	2.5
57.5°	0.7	1.4	1.8	2.3	2.5
60°	0.7	1.1	1.8	2.3	2.5
62.5°	0.9	1.1	1.6	2.3	2.3
65°	0.9	1.1	1.6	2.3	2.3
67.5°	0.9	1.1	1.6	2.0	2.0
70°	0.9	1.1	1.4	1.8	1.8
72.5°	0.9	1.1	1.4	1.6	1.8
75°	0.7	0.9	1.1	1.4	1.6
77.5°	0.7	0.9	0.9	1.4	1.4
80°	0.7	0.7	0.7	0.9	0.9
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)