

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: P1335685

Luminaire Tested: P3A02R409035DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1335685
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: P3A02R409035DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R40 optic, 3500K CCT AND, 90CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

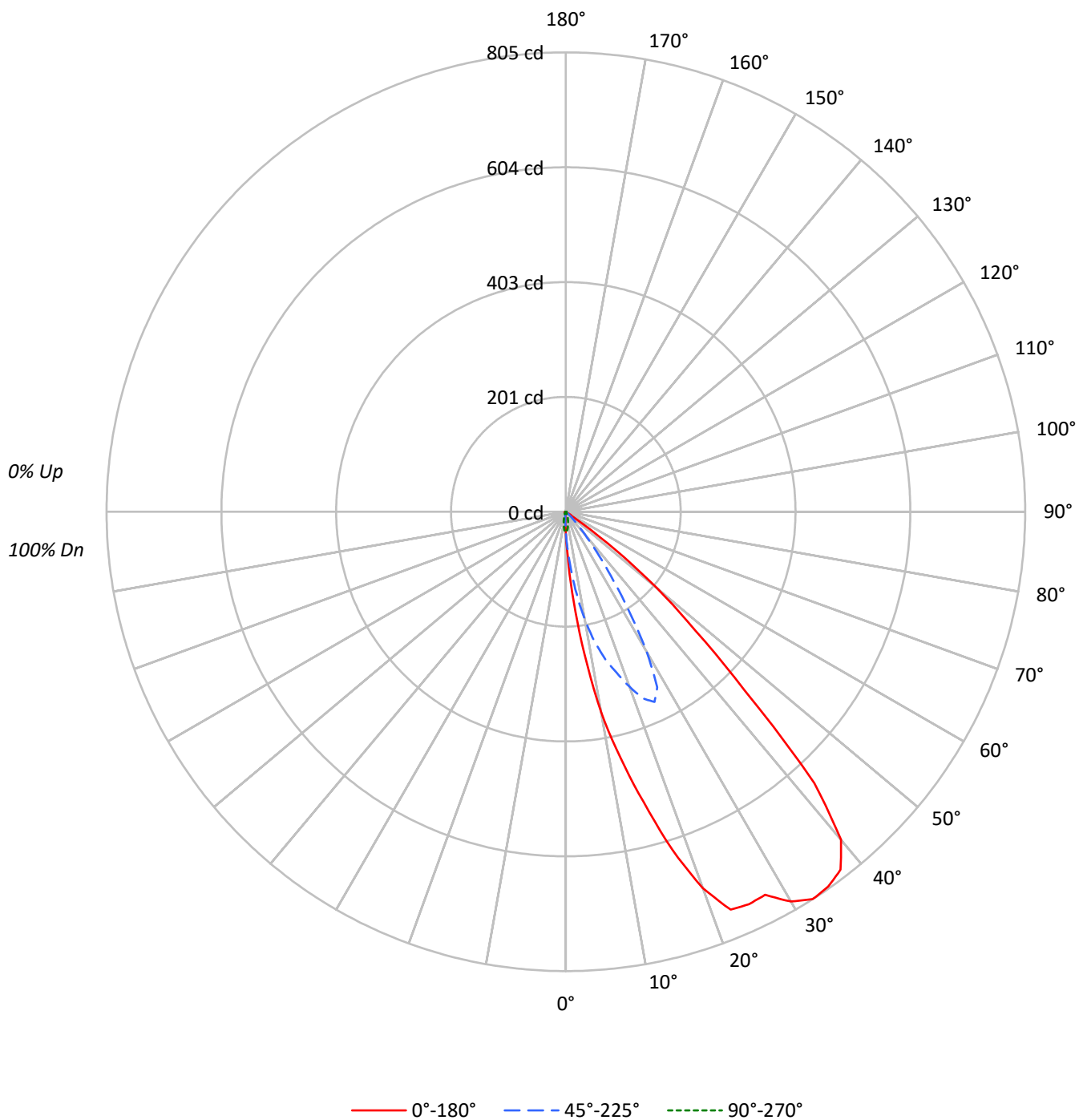
Lumens per Lamp: N/A
Luminaire Lumens: 297.1 lumens
Efficiency: N/A
Efficacy: 82.5 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.42 / 1.24
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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°	7697	7697	7697	7697	7697
5°	34757	22166	6912	2641	1937
10°	79714	42818	4854	957	735
15°	119615	60749	3019	522	454
20°	163768	76143	1750	303	350
25°	183591	88965	919	242	315
30°	199702	71834	380	203	329
35°	214636	36754	134	268	402
40°	214688	14656	86	286	515
45°	137068	4900	155	465	713
50°	71162	614	273	614	853
55°	6155	115	306	765	1070
60°	219	132	351	877	1228
65°	259	156	519	934	1297
70°	192	192	641	962	1282
75°	254	254	678	1101	1525
80°	379	379	1010	1010	1263
85°	0	755	2013	1258	1258

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 137068 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.8	2.3
10°-20°	40.2	13.5
20°-30°	88.0	29.6
30°-40°	100.3	33.8
40°-50°	52.9	17.8
50°-60°	6.3	2.1
60°-70°	1.1	0.4
70°-80°	1.0	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°	135.1	45.5
0°-40°	235.4	79.2
0°-60°	294.6	99.1
0°-90°	297.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	297.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	35	35	35	35	35	
5°	158	101	31	12	9	21
15°	527	268	13	2	2	155
25°	759	368	4	1	1	350
35°	802	137	0	1	2	497
45°	442	16	0	2	2	356
55°	16	0	1	2	3	50
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°	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1
2.5°	78.3	78.3	78.1	75.8	75.6	75.3	71.3	70.3	65.5	62.3	47.4
5°	157.9	154.4	154.1	150.1	143.3	134.3	128.5	119.2	110.2	100.7	58.5
7.5°	251.5	254.5	246.2	242.0	226.9	216.1	199.6	185.0	164.7	145.6	67.5
10°	358.0	352.7	344.4	336.1	319.8	300.5	275.9	250.0	220.6	192.3	72.5
12.5°	441.0	434.3	429.2	417.9	401.9	377.0	347.7	313.0	274.1	233.2	72.3
15°	526.9	520.1	508.8	498.8	474.9	447.1	415.2	369.5	321.8	267.6	67.0
17.5°	621.3	612.5	599.9	584.6	561.5	530.7	490.2	434.5	367.0	295.7	57.5
20°	701.8	696.6	684.0	666.0	643.4	613.2	566.6	504.8	422.5	326.3	45.7
22.5°	754.6	749.8	741.3	725.4	708.4	676.2	633.6	565.8	468.9	354.2	34.6
25°	758.8	756.8	754.6	749.3	739.0	716.2	674.5	601.4	497.8	367.7	25.6
27.5°	756.6	755.8	755.3	752.6	745.8	723.2	680.5	606.7	494.0	346.7	18.8
30°	788.7	786.4	785.2	776.2	758.3	723.4	667.7	578.3	439.0	283.7	13.6
32.5°	805.0	804.5	803.3	794.5	769.4	723.9	646.1	509.8	348.2	204.8	9.3
35°	801.8	799.2	794.7	778.4	743.5	686.5	576.3	407.2	251.3	137.3	6.0
37.5°	790.7	784.9	776.2	746.8	700.3	622.5	467.4	299.7	170.9	88.9	3.5
40°	750.0	742.3	728.5	692.6	631.6	513.1	345.7	202.6	112.2	51.2	1.0
42.5°	644.9	634.8	624.8	584.6	514.8	382.6	227.4	125.3	64.0	28.1	0.3
45°	442.0	429.5	415.7	386.6	330.6	231.7	135.3	70.5	33.1	15.8	0.3
47.5°	307.0	301.2	277.1	240.0	184.0	122.7	70.0	34.6	17.6	7.3	0.3
50°	208.6	202.1	174.0	138.1	97.9	58.7	32.1	17.3	7.8	1.8	0.3
52.5°	109.4	101.4	83.6	63.8	39.7	24.6	14.1	7.5	2.3	0.3	0.3
55°	16.1	14.8	12.0	9.8	8.8	6.8	4.0	1.8	0.3	0.3	0.5
57.5°	0.5	0.5	0.5	0.5	0.8	0.8	0.5	0.3	0.3	0.3	0.5
60°	0.5	0.5	0.5	0.5	0.5	0.3	0.3	0.3	0.3	0.3	0.5
62.5°	0.5	0.5	0.5	0.5	0.5	0.3	0.3	0.3	0.3	0.3	0.5
65°	0.5	0.5	0.5	0.5	0.5	0.3	0.3	0.3	0.3	0.3	0.5
67.5°	0.5	0.5	0.5	0.5	0.3	0.3	0.3	0.3	0.3	0.5	0.8
70°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.8
72.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.8
75°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.8
77.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.8
80°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.5
82.5°	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	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°	35.1	35.1	35.1	35.1	35.1
2.5°	34.6	25.6	19.8	17.1	16.8
5°	31.4	18.3	12.0	9.3	8.8
7.5°	26.6	12.8	7.0	5.0	4.8
10°	21.8	8.8	4.3	3.5	3.3
12.5°	17.3	5.8	3.0	2.8	2.5
15°	13.3	3.8	2.3	2.0	2.0
17.5°	10.0	2.5	1.8	1.8	1.8
20°	7.5	1.8	1.3	1.5	1.5
22.5°	5.3	1.3	1.0	1.3	1.3
25°	3.8	1.0	1.0	1.3	1.3
27.5°	2.5	0.8	0.8	1.0	1.3
30°	1.5	0.5	0.8	1.0	1.3
32.5°	0.8	0.5	0.8	1.3	1.3
35°	0.5	0.8	1.0	1.3	1.5
37.5°	0.3	0.8	1.0	1.5	1.5
40°	0.3	0.8	1.0	1.5	1.8
42.5°	0.5	1.0	1.3	1.8	2.0
45°	0.5	1.0	1.5	2.0	2.3
47.5°	0.5	1.0	1.8	2.3	2.3
50°	0.8	1.3	1.8	2.3	2.5
52.5°	0.8	1.3	1.8	2.5	2.8
55°	0.8	1.3	2.0	2.5	2.8
57.5°	0.8	1.5	2.0	2.5	2.8
60°	0.8	1.3	2.0	2.5	2.8
62.5°	1.0	1.3	1.8	2.5	2.5
65°	1.0	1.3	1.8	2.5	2.5
67.5°	1.0	1.3	1.8	2.3	2.3
70°	1.0	1.3	1.5	2.0	2.0
72.5°	1.0	1.3	1.5	1.8	2.0
75°	0.8	1.0	1.3	1.5	1.8
77.5°	0.8	1.0	1.0	1.5	1.5
80°	0.8	0.8	0.8	1.0	1.0
82.5°	0.8	0.8	0.5	0.8	0.8
85°	0.8	0.5	0.5	0.5	0.5
87.5°	0.5	0.5	0.3	0.3	0.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)