

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: P1335765

Luminaire Tested: P3A02R409735DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1335765
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: P3A02R409735DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R40 optic, 3500K CCT AND, 97CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

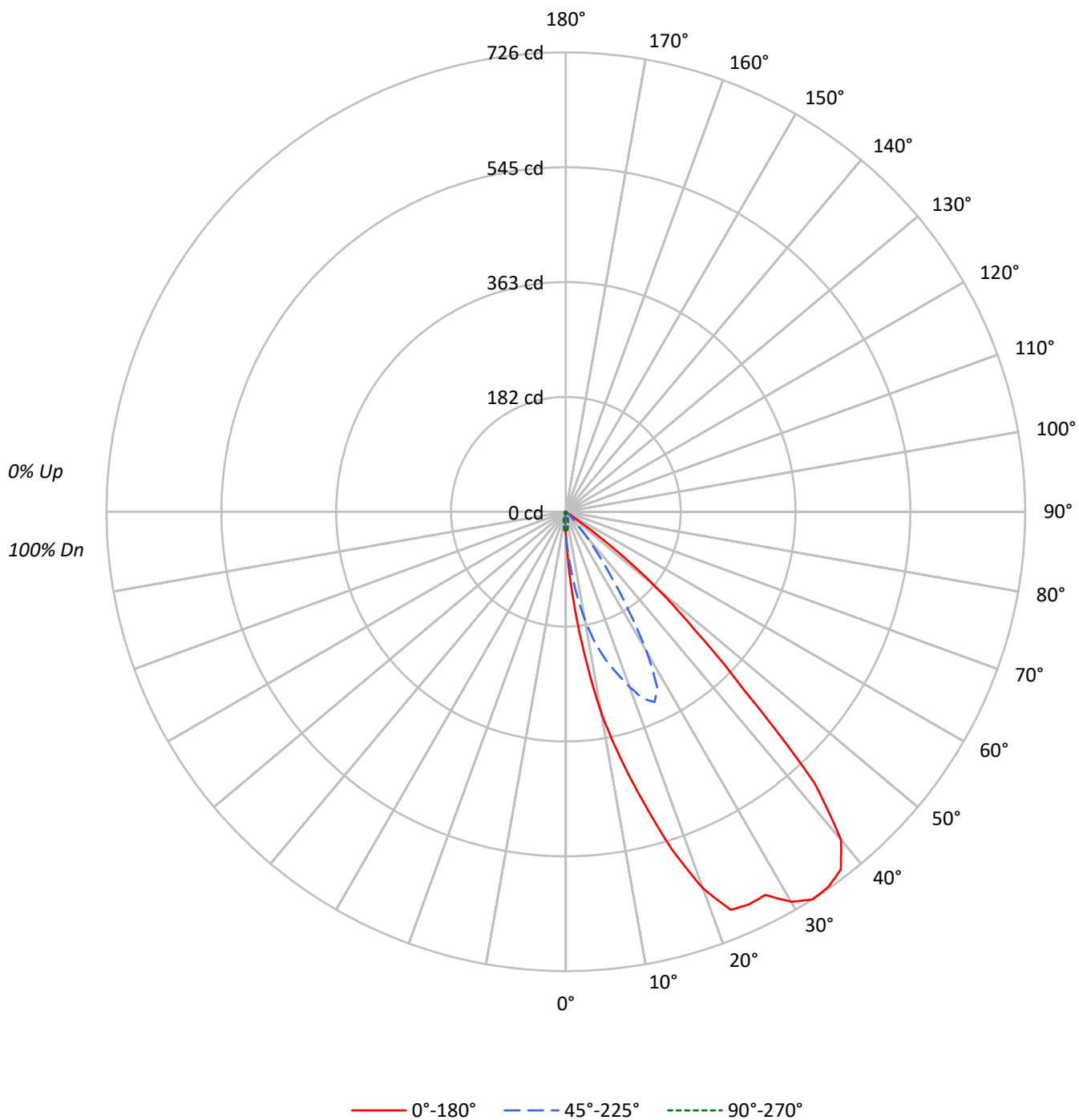
Lumens per Lamp: N/A
Luminaire Lumens: 268.0 lumens
Efficiency: N/A
Efficacy: 74.5 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.41 / 1.24
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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°	6951	6951	6951	6951	6951
5°	31367	19987	6229	2399	1739
10°	71920	38632	4386	868	646
15°	107923	54824	2724	454	409
20°	147783	68723	1587	257	327
25°	165663	80279	823	218	266
30°	180205	64820	354	177	279
35°	193675	33167	134	241	375
40°	193734	13225	57	258	458
45°	123703	4435	155	434	620
50°	64203	546	239	546	785
55°	5543	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: 123703 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.2	2.3
10°-20°	36.3	13.5
20°-30°	79.4	29.6
30°-40°	90.5	33.8
40°-50°	47.8	17.8
50°-60°	5.6	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°	121.9	45.5
0°-40°	212.4	79.2
0°-60°	265.8	99.2
0°-90°	268.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	268.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	32	32	32	32	32	
5°	142	91	28	11	8	19
15°	475	242	12	2	2	140
25°	685	332	3	1	1	315
35°	724	124	0	1	1	448
45°	399	14	0	1	2	322
55°	14	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°	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7
2.5°	70.7	70.7	70.4	68.4	68.2	68.0	64.3	63.4	59.1	56.2	42.8
5°	142.5	139.3	139.1	135.5	129.3	121.2	116.0	107.6	99.4	90.8	52.8
7.5°	227.0	229.7	222.2	218.4	204.8	195.0	180.1	166.9	148.6	131.4	60.9
10°	323.0	318.2	310.8	303.3	288.6	271.1	248.9	225.6	199.1	173.5	65.5
12.5°	398.0	391.9	387.3	377.1	362.6	340.2	313.7	282.5	247.3	210.4	65.2
15°	475.4	469.3	459.1	450.1	428.6	403.4	374.6	333.4	290.4	241.5	60.5
17.5°	560.6	552.7	541.4	527.5	506.7	478.8	442.4	392.1	331.2	266.8	51.9
20°	633.3	628.6	617.2	600.9	580.5	553.4	511.2	455.5	381.2	294.5	41.2
22.5°	680.9	676.6	668.9	654.6	639.2	610.2	571.7	510.6	423.1	319.6	31.3
25°	684.7	682.9	680.9	676.1	666.8	646.2	608.6	542.7	449.2	331.8	23.1
27.5°	682.7	682.0	681.6	679.1	673.0	652.6	614.1	547.5	445.8	312.8	17.0
30°	711.7	709.7	708.5	700.4	684.3	652.8	602.5	521.9	396.2	256.0	12.2
32.5°	726.4	726.0	724.8	716.9	694.2	653.3	583.0	460.0	314.2	184.8	8.4
35°	723.5	721.2	717.1	702.4	670.9	619.5	520.1	367.4	226.7	123.9	5.4
37.5°	713.5	708.3	700.4	673.9	632.0	561.7	421.8	270.5	154.3	80.2	3.2
40°	676.8	669.8	657.3	624.9	569.9	463.0	311.9	182.8	101.2	46.2	0.9
42.5°	581.9	572.8	563.8	527.5	464.6	345.2	205.2	113.0	57.8	25.4	0.2
45°	398.9	387.6	375.1	348.8	298.3	209.1	122.1	63.6	29.9	14.3	0.2
47.5°	277.0	271.8	250.1	216.5	166.0	110.8	63.2	31.3	15.9	6.6	0.2
50°	188.2	182.3	157.0	124.6	88.3	53.0	29.0	15.6	7.0	1.6	0.2
52.5°	98.8	91.5	75.4	57.5	35.8	22.2	12.7	6.8	2.0	0.2	0.2
55°	14.5	13.4	10.9	8.8	7.9	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°	31.7	31.7	31.7	31.7	31.7
2.5°	31.3	23.1	17.9	15.4	15.2
5°	28.3	16.5	10.9	8.4	7.9
7.5°	24.0	11.6	6.3	4.5	4.3
10°	19.7	7.9	3.9	3.2	2.9
12.5°	15.6	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)