

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: P1336101

Luminaire Tested: P3A02R459735DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1336101
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-69)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A02R459735DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R45 optic, 3500K CCT AND, 97CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

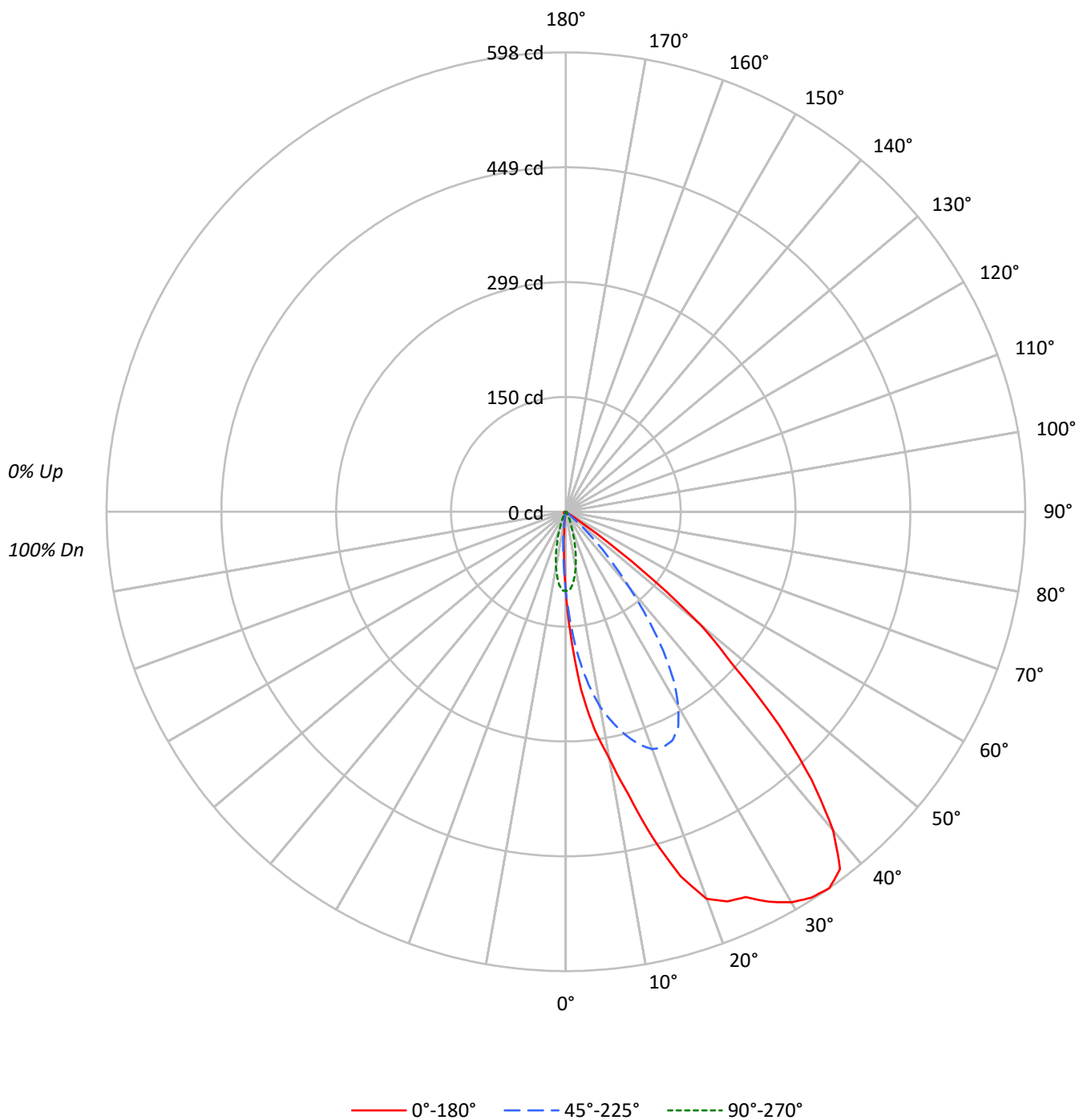
Lumens per Lamp: N/A
Luminaire Lumens: 271.0 lumens
Efficiency: N/A
Efficacy: 75.3 lumens/watt
Spacing Criteria (0/90/45): 2.13 / 0.47 / 1.22
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	100		
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91		
2	105	100	95	91	103	98	93	90	94	91	88	91	88	86	89	86	84	82		
3	99	91	85	80	96	89	84	80	87	82	78	84	80	77	82	79	76	74		
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	76	72	68	67		
5	86	76	69	64	84	75	68	64	73	67	63	71	66	62	70	65	62	60		
6	81	70	63	57	79	69	62	57	67	61	57	66	60	56	64	60	56	54		
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	60	55	51	49		
8	71	59	52	47	69	59	52	47	57	51	47	56	51	47	55	50	46	45		
9	66	55	48	43	65	54	47	43	53	47	43	52	47	43	51	46	42	41		
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	22608	22608	22608	22608	22608
5°	51530	41800	21153	8475	5789
10°	72611	57425	16343	1870	868
15°	100069	68332	10443	613	522
20°	125124	76750	5437	420	420
25°	133919	79456	2516	339	387
30°	148630	74189	1139	354	405
35°	160107	59160	375	375	482
40°	154919	36669	200	458	573
45°	121656	17304	217	558	713
50°	78155	2013	307	682	921
55°	11851	191	344	879	1109
60°	219	219	395	1009	1184
65°	259	259	467	1038	1401
70°	321	321	577	1154	1603
75°	169	424	763	1356	1694
80°	253	631	884	1389	2020
85°	0	503	1258	1761	1761

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 121656 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.3	4.2
10°-20°	40.8	15.1
20°-30°	71.7	26.4
30°-40°	81.4	30.0
40°-50°	52.7	19.4
50°-60°	10.4	3.8
60°-70°	1.3	0.5
70°-80°	1.0	0.4
80°-90°	0.5	0.2
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°	123.8	45.7
0°-40°	205.2	75.7
0°-60°	268.2	99.0
0°-90°	271.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	271.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	103	103	103	103	103	
5°	234	190	96	38	26	25
15°	441	301	46	3	2	127
25°	554	328	10	1	2	259
35°	598	221	1	1	2	368
45°	392	56	1	2	2	296
55°	31	0	1	2	3	59
65°	0	0	1	2	3	0
75°	0	0	1	2	2	0
85°	0	0	0	1	1	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	103.1	103.1	103.1	103.1	103.1	103.1	103.1	103.1	103.1	103.1	103.1
2.5°	167.5	167.0	167.7	163.2	163.0	159.6	158.6	154.8	149.6	147.1	141.2
5°	234.1	231.9	231.9	226.4	224.6	220.7	214.2	206.0	199.2	189.9	180.0
7.5°	285.6	285.1	285.1	280.4	275.8	270.4	261.5	252.2	241.4	227.1	212.6
10°	326.1	326.8	324.8	320.5	313.9	308.0	297.6	286.2	272.9	257.9	238.7
12.5°	377.4	372.4	370.8	361.0	352.7	341.3	328.9	315.9	299.4	280.6	258.8
15°	440.8	434.5	428.1	415.2	401.2	383.7	364.2	345.2	323.9	301.0	273.8
17.5°	497.5	497.5	489.1	468.7	450.6	424.7	398.4	373.0	347.9	317.7	283.8
20°	536.2	534.2	527.8	512.9	492.3	463.0	428.8	393.2	362.8	328.9	289.4
22.5°	548.9	548.5	548.7	539.9	523.3	492.9	451.0	409.1	371.0	331.6	286.7
25°	553.5	554.4	556.6	553.2	540.8	510.4	464.6	416.6	373.5	328.4	276.3
27.5°	572.3	570.5	572.9	570.7	556.6	520.4	467.3	414.8	368.1	316.8	257.7
30°	587.0	586.5	590.8	588.8	570.5	526.7	464.8	408.0	354.7	293.0	228.5
32.5°	595.4	595.6	596.7	588.4	561.2	512.9	452.6	394.1	329.5	262.0	190.4
35°	598.1	596.7	590.4	569.8	532.6	480.9	422.5	361.3	295.3	221.0	150.5
37.5°	586.3	579.3	563.0	532.1	489.1	440.8	383.9	319.8	248.4	174.5	112.2
40°	541.2	531.9	511.3	479.8	439.7	393.0	334.7	267.7	192.6	128.1	78.9
42.5°	473.7	468.9	447.4	420.0	386.0	338.8	278.8	210.8	142.6	88.4	50.3
45°	392.3	386.2	372.6	348.3	321.6	272.2	216.2	150.9	97.2	55.8	24.9
47.5°	294.2	294.6	285.3	267.0	240.7	199.4	148.0	101.3	61.0	28.8	5.7
50°	229.1	226.0	212.8	194.0	163.4	132.8	95.6	63.9	32.2	5.9	0.5
52.5°	126.9	129.0	121.9	115.8	99.9	79.3	56.4	32.4	6.8	0.7	0.5
55°	31.0	32.9	31.5	32.2	33.3	29.7	22.9	6.3	0.7	0.5	0.5
57.5°	0.7	0.7	0.7	0.7	1.1	1.6	1.6	0.5	0.5	0.5	0.5
60°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
62.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
65°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
67.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
70°	0.5	0.5	0.5	0.2	0.5	0.5	0.5	0.5	0.5	0.5	0.5
72.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.5	0.5	0.5
75°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.5	0.5	0.5
77.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.5	0.5
80°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.5	0.5
82.5°	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2
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):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	103.1	103.1	103.1	103.1	103.1	103.1	103.1	103.1
2.5°	138.3	133.9	126.0	102.4	82.3	66.4	56.9	56.0
5°	171.1	159.6	142.8	96.1	60.7	38.5	27.9	26.3
7.5°	197.2	180.9	155.0	85.7	41.5	19.7	10.9	9.1
10°	218.7	195.6	161.4	73.4	26.1	8.4	4.5	3.9
12.5°	233.4	205.6	162.5	59.8	15.0	4.1	2.9	2.7
15°	243.0	208.7	157.1	46.0	8.4	2.7	2.5	2.3
17.5°	246.8	206.0	146.6	33.3	4.5	2.0	2.0	2.0
20°	245.0	197.2	131.2	23.3	2.9	1.8	1.8	1.8
22.5°	236.4	182.0	112.0	15.6	2.0	1.6	1.6	1.6
25°	219.4	161.4	91.6	10.4	1.4	1.4	1.6	1.6
27.5°	194.0	136.0	70.0	7.0	1.1	1.4	1.6	1.6
30°	162.0	107.7	50.3	4.5	1.1	1.4	1.4	1.6
32.5°	128.7	78.4	33.1	2.7	0.9	1.4	1.6	1.8
35°	93.4	53.5	21.1	1.4	1.1	1.4	1.6	1.8
37.5°	65.5	34.9	12.2	0.9	1.1	1.4	1.8	1.8
40°	42.6	19.5	4.5	0.7	1.1	1.6	1.8	2.0
42.5°	22.2	6.8	0.9	0.7	1.1	1.6	2.0	2.3
45°	5.7	0.9	0.2	0.7	1.4	1.8	2.3	2.3
47.5°	0.7	0.2	0.2	0.9	1.4	2.0	2.3	2.5
50°	0.2	0.5	0.5	0.9	1.4	2.0	2.5	2.7
52.5°	0.5	0.5	0.5	0.9	1.6	2.0	2.7	2.9
55°	0.5	0.5	0.5	0.9	1.6	2.3	2.7	2.9
57.5°	0.5	0.5	0.5	0.9	1.6	2.3	2.7	2.7
60°	0.5	0.5	0.5	0.9	1.6	2.3	2.7	2.7
62.5°	0.5	0.5	0.7	0.9	1.6	2.0	2.7	2.7
65°	0.5	0.7	0.7	0.9	1.6	2.0	2.5	2.7
67.5°	0.5	0.5	0.7	0.9	1.6	2.0	2.5	2.7
70°	0.5	0.5	0.7	0.9	1.4	1.8	2.3	2.5
72.5°	0.5	0.5	0.7	0.9	1.4	1.8	2.0	2.3
75°	0.5	0.5	0.7	0.9	1.1	1.6	2.0	2.0
77.5°	0.5	0.5	0.7	0.7	1.1	1.4	1.8	1.8
80°	0.5	0.5	0.7	0.7	0.9	1.1	1.4	1.6
82.5°	0.5	0.5	0.5	0.7	0.7	0.9	1.1	1.1
85°	0.5	0.5	0.5	0.5	0.5	0.7	0.7	0.7
87.5°	0.2	0.5	0.5	0.5	0.5	0.5	0.5	0.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)