

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: P1338943

Luminaire Tested: P3A05R409730DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1338943
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: P3A05R409730DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R40 optic, 3000K CCT AND, 97CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

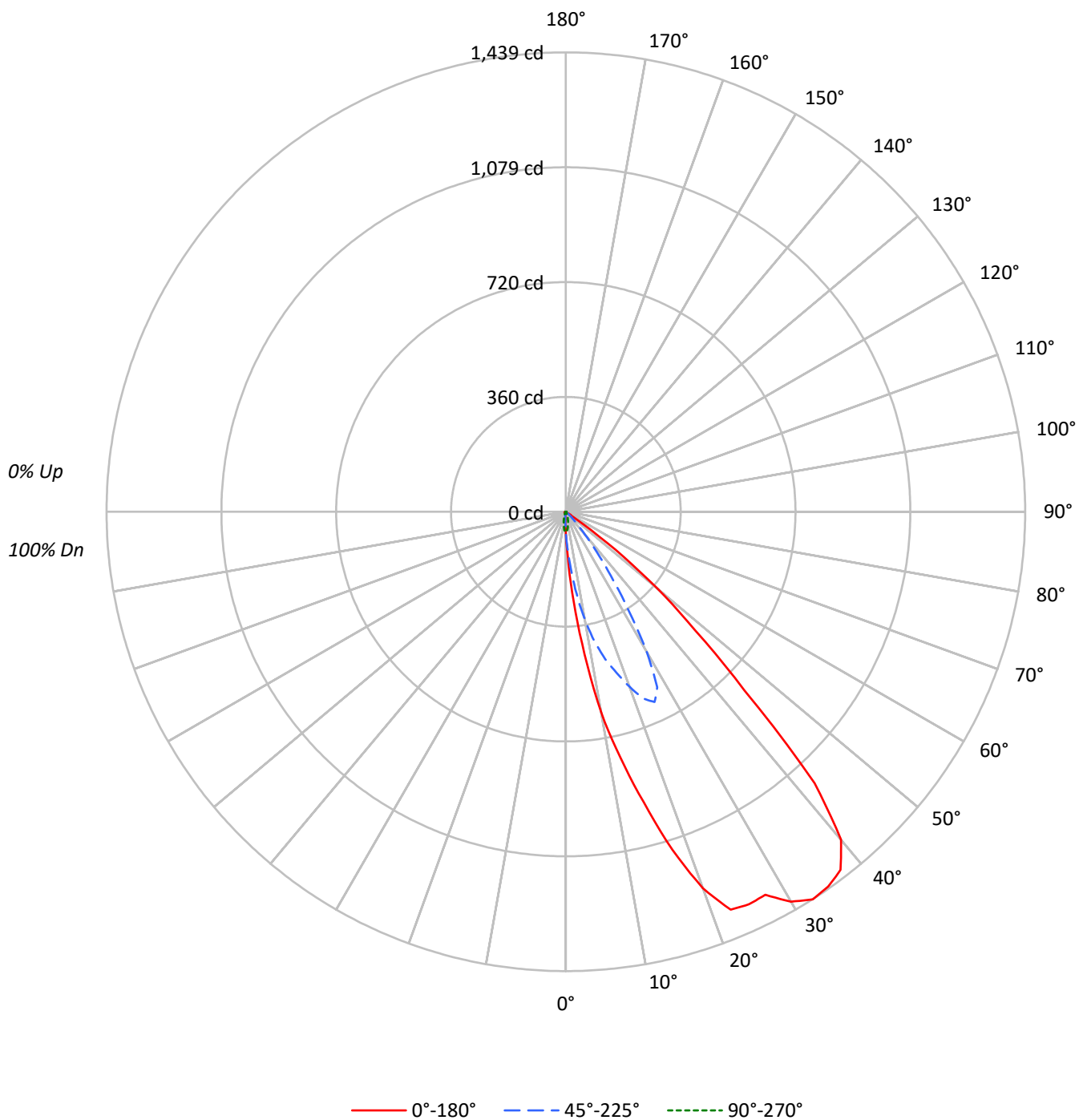
Lumens per Lamp: N/A
Luminaire Lumens: 530.9 lumens
Efficiency: N/A
Efficacy: 73.7 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.42 / 1.24
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 7.2
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	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°	13771	13771	13771	13771	13771
5°	62139	39621	12349	4733	3456
10°	142505	76552	8684	1692	1291
15°	213849	108604	5403	908	817
20°	292812	136139	3150	513	630
25°	328253	159082	1621	436	532
30°	357042	128400	684	329	557
35°	383710	65718	241	482	723
40°	383862	26221	115	515	887
45°	245080	8776	279	837	1240
50°	127211	1058	443	1058	1535
55°	10972	153	497	1376	1873
60°	395	175	570	1579	2149
65°	467	208	934	1608	2335
70°	256	256	1154	1731	2308
75°	339	339	1101	1864	2626
80°	505	505	1642	1642	2273
85°	0	1006	3271	2264	2264

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 245080 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.2	2.3
10°-20°	71.9	13.5
20°-30°	157.4	29.6
30°-40°	179.3	33.8
40°-50°	94.6	17.8
50°-60°	11.1	2.1
60°-70°	2.0	0.4
70°-80°	1.6	0.3
80°-90°	0.7	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°	241.5	45.5
0°-40°	420.8	79.3
0°-60°	526.6	99.2
0°-90°	530.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	530.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	63	63	63	63	63	
5°	282	180	56	22	16	38
15°	942	478	24	4	4	278
25°	1357	658	7	2	2	625
35°	1433	246	1	2	3	888
45°	790	28	1	3	4	637
55°	29	0	1	4	5	89
65°	1	0	2	3	4	1
75°	0	0	1	2	3	0
85°	0	0	1	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°	67.5°
0°	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8
2.5°	140.0	140.0	139.6	135.5	135.1	134.6	127.5	125.7	117.1	111.3	84.8
5°	282.3	276.0	275.6	268.4	256.3	240.1	229.8	213.2	197.0	180.0	104.6
7.5°	449.7	455.1	440.3	432.6	405.7	386.4	356.8	330.8	294.4	260.3	120.7
10°	640.0	630.6	615.7	600.9	571.8	537.2	493.2	447.0	394.5	343.8	129.7
12.5°	788.5	776.4	767.4	747.2	718.5	674.1	621.6	559.6	490.1	416.9	129.3
15°	942.0	929.9	909.7	891.7	849.1	799.3	742.3	660.6	575.4	478.4	119.8
17.5°	1110.8	1095.1	1072.6	1045.2	1003.9	948.7	876.5	776.9	656.1	528.7	102.8
20°	1254.8	1245.4	1223.0	1190.6	1150.3	1096.4	1012.9	902.5	755.3	583.4	81.7
22.5°	1349.1	1340.5	1325.3	1297.0	1266.5	1209.0	1132.8	1011.6	838.3	633.2	61.9
25°	1356.7	1353.1	1349.1	1339.6	1321.2	1280.4	1205.9	1075.3	890.0	657.5	45.8
27.5°	1352.7	1351.3	1350.4	1345.5	1333.4	1293.0	1216.7	1084.7	883.2	619.8	33.7
30°	1410.1	1406.1	1403.8	1387.7	1355.8	1293.4	1193.8	1034.0	784.9	507.1	24.2
32.5°	1439.3	1438.4	1436.1	1420.4	1375.5	1294.3	1155.2	911.5	622.5	366.2	16.6
35°	1433.4	1429.0	1420.9	1391.7	1329.3	1227.4	1030.4	727.9	449.2	245.5	10.8
37.5°	1413.7	1403.4	1387.7	1335.2	1252.1	1113.0	835.7	535.9	305.6	158.9	6.3
40°	1341.0	1327.1	1302.4	1238.2	1129.2	917.3	618.0	362.2	200.6	91.6	1.8
42.5°	1152.9	1135.0	1117.0	1045.2	920.5	684.0	406.6	223.9	114.4	50.3	0.4
45°	790.3	767.9	743.2	691.1	591.1	414.2	241.9	126.1	59.2	28.3	0.4
47.5°	548.9	538.6	495.5	429.0	329.0	219.5	125.2	61.9	31.4	13.0	0.4
50°	372.9	361.3	311.0	246.8	175.0	105.0	57.4	31.0	13.9	3.1	0.4
52.5°	195.7	181.3	149.4	114.0	70.9	44.0	25.1	13.5	4.0	0.4	0.4
55°	28.7	26.5	21.5	17.5	15.7	12.1	7.2	3.1	0.4	0.4	0.9
57.5°	0.9	0.9	0.9	0.9	1.3	1.3	0.9	0.4	0.4	0.4	0.9
60°	0.9	0.9	0.9	0.9	0.9	0.4	0.4	0.4	0.4	0.4	0.9
62.5°	0.9	0.9	0.9	0.9	0.9	0.4	0.4	0.4	0.4	0.4	0.9
65°	0.9	0.9	0.9	0.9	0.9	0.4	0.4	0.4	0.4	0.4	0.9
67.5°	0.9	0.9	0.9	0.9	0.4	0.4	0.4	0.4	0.4	0.9	1.3
70°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	1.3
72.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.9	1.3
75°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	1.3
77.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.9	1.3
80°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.9
82.5°	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.4	1.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.9
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°	62.8	62.8	62.8	62.8	62.8
2.5°	61.9	45.8	35.5	30.5	30.1
5°	56.1	32.8	21.5	16.6	15.7
7.5°	47.6	22.9	12.6	9.0	8.5
10°	39.0	15.7	7.6	6.3	5.8
12.5°	31.0	10.3	5.4	4.9	4.5
15°	23.8	6.7	4.0	3.6	3.6
17.5°	18.0	4.5	3.1	3.1	3.1
20°	13.5	3.1	2.2	2.7	2.7
22.5°	9.4	2.2	1.8	2.2	2.2
25°	6.7	1.8	1.8	2.2	2.2
27.5°	4.5	1.3	1.3	1.8	2.2
30°	2.7	0.9	1.3	1.8	2.2
32.5°	1.3	0.9	1.3	2.2	2.2
35°	0.9	1.3	1.8	2.2	2.7
37.5°	0.4	1.3	1.8	2.7	2.7
40°	0.4	1.3	1.8	2.7	3.1
42.5°	0.9	1.8	2.2	3.1	3.6
45°	0.9	1.8	2.7	3.6	4.0
47.5°	0.9	1.8	3.1	4.0	4.0
50°	1.3	2.2	3.1	4.0	4.5
52.5°	1.3	2.2	3.1	4.5	4.9
55°	1.3	2.2	3.6	4.5	4.9
57.5°	1.3	2.7	3.6	4.5	4.9
60°	1.3	2.2	3.6	4.5	4.9
62.5°	1.8	2.2	3.1	4.5	4.5
65°	1.8	2.2	3.1	4.5	4.5
67.5°	1.8	2.2	3.1	4.0	4.0
70°	1.8	2.2	2.7	3.6	3.6
72.5°	1.8	2.2	2.7	3.1	3.6
75°	1.3	1.8	2.2	2.7	3.1
77.5°	1.3	1.8	1.8	2.7	2.7
80°	1.3	1.3	1.3	1.8	1.8
82.5°	1.3	1.3	0.9	1.3	1.3
85°	1.3	0.9	0.9	0.9	0.9
87.5°	0.9	0.9	0.4	0.4	0.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)