

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: P1338959

Luminaire Tested: P3A05R409735DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1338959
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: P3A05R409735DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R40 optic, 3500K CCT AND, 97CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

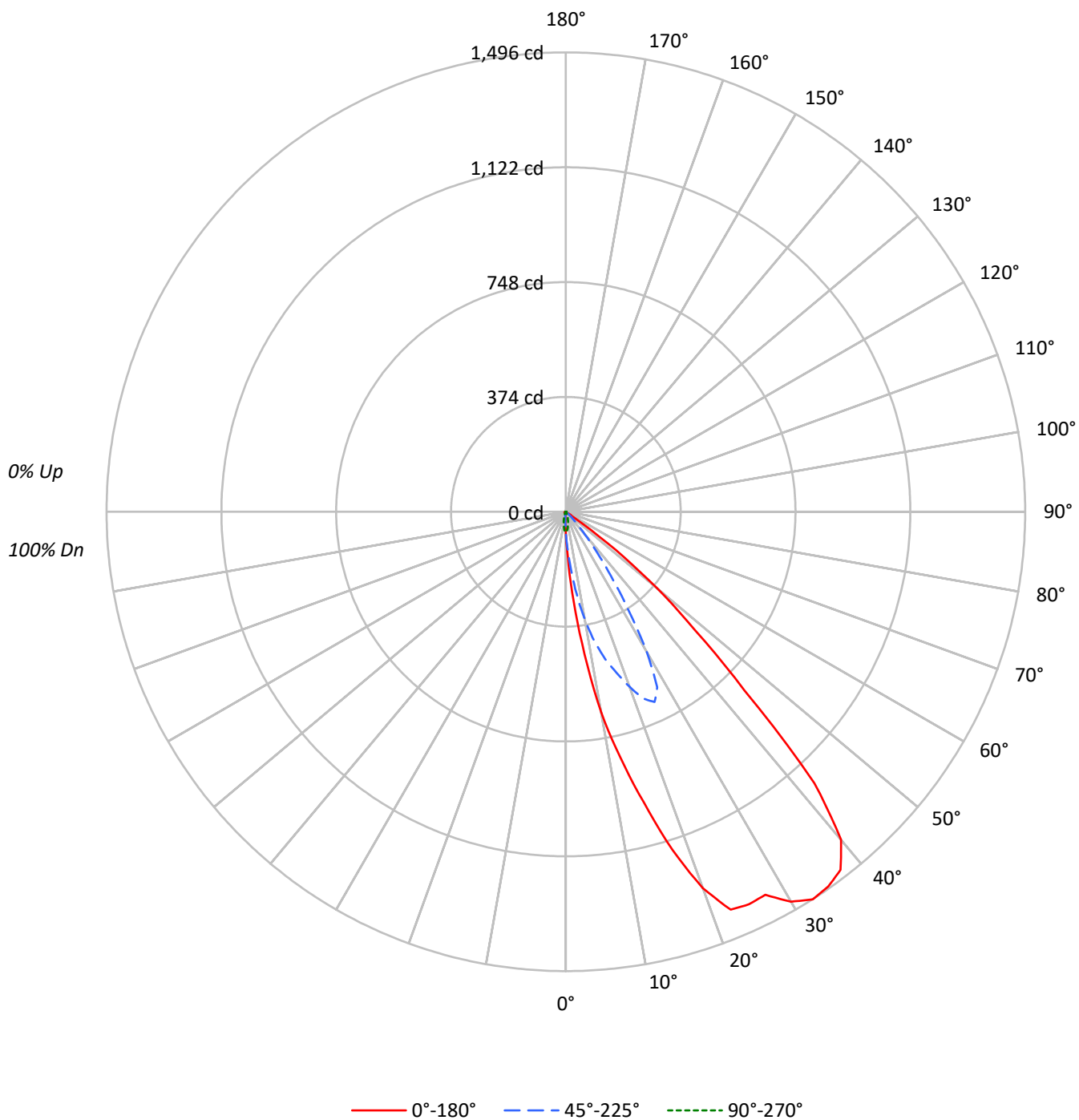
Lumens per Lamp: N/A
Luminaire Lumens: 552.0 lumens
Efficiency: N/A
Efficacy: 76.7 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.42 / 1.24
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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			0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
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	94	90	95	91	88		92	89	86		89	86	84	82
3	99	91	85	80	97	90	84	80	87	82	78		84	80	77		82	79	76	74
4	92	83	77	71	90	82	76	71	80	74	70		78	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	80	70	62	57	79	69	62	57	67	61	57		66	60	56		64	60	56	54
7	75	64	57	52	74	63	56	51	62	56	51		61	55	51		59	54	51	49
8	70	59	52	47	69	58	51	47	57	51	46		56	50	46		55	50	46	44
9	66	54	47	42	65	54	47	42	53	46	42		52	46	42		51	46	42	40
10	62	50	43	39	61	50	43	39	49	43	38		48	42	38		47	42	38	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	14319	14319	14319	14319	14319
5°	64605	41184	12833	4931	3588
10°	148138	79580	9040	1759	1358
15°	222317	112895	5607	953	840
20°	304386	141529	3267	537	653
25°	341246	165372	1694	460	556
30°	371171	133489	709	354	582
35°	398888	68315	241	509	750
40°	399033	27251	143	544	945
45°	254786	9117	279	868	1302
50°	132260	1126	478	1126	1603
55°	11431	191	535	1415	1950
60°	395	219	614	1623	2237
65°	467	259	986	1712	2439
70°	321	321	1218	1795	2372
75°	424	424	1186	1949	2796
80°	631	631	1768	1768	2399
85°	0	1258	3522	2264	2264

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 254786 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.7	2.3
10°-20°	74.7	13.5
20°-30°	163.6	29.6
30°-40°	186.4	33.8
40°-50°	98.4	17.8
50°-60°	11.6	2.1
60°-70°	2.1	0.4
70°-80°	1.7	0.3
80°-90°	0.8	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°	251.1	45.5
0°-40°	437.5	79.2
0°-60°	547.4	99.2
0°-90°	552.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	552.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	65	65	65	65	65	
5°	294	187	58	22	16	40
15°	979	497	25	4	4	289
25°	1410	684	7	2	2	650
35°	1490	255	1	2	3	924
45°	822	29	1	3	4	662
55°	30	0	1	4	5	93
65°	1	0	2	3	5	1
75°	0	0	1	2	3	1
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°	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3
2.5°	145.6	145.6	145.1	140.9	140.4	140.0	132.5	130.6	121.8	115.7	88.2
5°	293.5	286.9	286.5	279.0	266.4	249.6	238.9	221.6	204.8	187.1	108.7
7.5°	467.5	473.1	457.7	449.7	421.8	401.7	370.9	343.8	306.1	270.6	125.5
10°	665.3	655.5	640.1	624.7	594.4	558.4	512.7	464.7	410.1	357.4	134.8
12.5°	819.7	807.1	797.8	776.8	746.9	700.7	646.2	581.8	509.5	433.4	134.4
15°	979.3	966.7	945.7	927.0	882.7	830.9	771.7	686.7	598.1	497.3	124.6
17.5°	1154.7	1138.4	1115.0	1086.6	1043.7	986.3	911.2	807.6	682.1	549.6	106.8
20°	1304.4	1294.7	1271.3	1237.7	1195.7	1139.8	1053.0	938.2	785.2	606.5	84.9
22.5°	1402.4	1393.6	1377.7	1348.3	1316.6	1256.9	1177.5	1051.6	871.5	658.3	64.4
25°	1410.4	1406.6	1402.4	1392.6	1373.5	1331.0	1253.6	1117.8	925.1	683.5	47.6
27.5°	1406.2	1404.8	1403.8	1398.7	1386.1	1344.1	1264.8	1127.6	918.2	644.3	35.0
30°	1465.9	1461.7	1459.3	1442.5	1409.4	1344.6	1241.0	1074.9	816.0	527.2	25.2
32.5°	1496.2	1495.3	1492.9	1476.6	1429.9	1345.5	1200.9	947.5	647.1	380.7	17.3
35°	1490.1	1485.5	1477.1	1446.7	1381.9	1276.0	1071.2	756.7	467.0	255.2	11.2
37.5°	1469.6	1458.9	1442.5	1388.0	1301.6	1157.0	868.7	557.0	317.7	165.2	6.5
40°	1394.0	1379.6	1353.9	1287.2	1173.8	953.6	642.4	376.5	208.5	95.2	1.9
42.5°	1198.5	1179.9	1161.2	1086.6	956.9	711.0	422.7	232.8	119.0	52.3	0.5
45°	821.6	798.3	772.6	718.5	614.4	430.6	251.5	131.1	61.6	29.4	0.5
47.5°	570.6	559.8	515.1	446.0	342.0	228.1	130.2	64.4	32.7	13.5	0.5
50°	387.7	375.6	323.3	256.6	182.0	109.2	59.7	32.2	14.5	3.3	0.5
52.5°	203.4	188.5	155.4	118.5	73.7	45.7	26.1	14.0	4.2	0.5	0.5
55°	29.9	27.5	22.4	18.2	16.3	12.6	7.5	3.3	0.5	0.5	0.9
57.5°	0.9	0.9	0.9	0.9	1.4	1.4	0.9	0.5	0.5	0.5	0.9
60°	0.9	0.9	0.9	0.9	0.9	0.5	0.5	0.5	0.5	0.5	0.9
62.5°	0.9	0.9	0.9	0.9	0.9	0.5	0.5	0.5	0.5	0.5	0.9
65°	0.9	0.9	0.9	0.9	0.9	0.5	0.5	0.5	0.5	0.5	0.9
67.5°	0.9	0.9	0.9	0.9	0.5	0.5	0.5	0.5	0.5	0.9	1.4
70°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.4
72.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.9	1.4
75°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.4
77.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.9	1.4
80°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.9
82.5°	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5	0.5	1.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	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°	65.3	65.3	65.3	65.3	65.3
2.5°	64.4	47.6	36.9	31.7	31.3
5°	58.3	34.1	22.4	17.3	16.3
7.5°	49.5	23.8	13.1	9.3	8.9
10°	40.6	16.3	7.9	6.5	6.1
12.5°	32.2	10.7	5.6	5.1	4.7
15°	24.7	7.0	4.2	3.7	3.7
17.5°	18.7	4.7	3.3	3.3	3.3
20°	14.0	3.3	2.3	2.8	2.8
22.5°	9.8	2.3	1.9	2.3	2.3
25°	7.0	1.9	1.9	2.3	2.3
27.5°	4.7	1.4	1.4	1.9	2.3
30°	2.8	0.9	1.4	1.9	2.3
32.5°	1.4	0.9	1.4	2.3	2.3
35°	0.9	1.4	1.9	2.3	2.8
37.5°	0.5	1.4	1.9	2.8	2.8
40°	0.5	1.4	1.9	2.8	3.3
42.5°	0.9	1.9	2.3	3.3	3.7
45°	0.9	1.9	2.8	3.7	4.2
47.5°	0.9	1.9	3.3	4.2	4.2
50°	1.4	2.3	3.3	4.2	4.7
52.5°	1.4	2.3	3.3	4.7	5.1
55°	1.4	2.3	3.7	4.7	5.1
57.5°	1.4	2.8	3.7	4.7	5.1
60°	1.4	2.3	3.7	4.7	5.1
62.5°	1.9	2.3	3.3	4.7	4.7
65°	1.9	2.3	3.3	4.7	4.7
67.5°	1.9	2.3	3.3	4.2	4.2
70°	1.9	2.3	2.8	3.7	3.7
72.5°	1.9	2.3	2.8	3.3	3.7
75°	1.4	1.9	2.3	2.8	3.3
77.5°	1.4	1.9	1.9	2.8	2.8
80°	1.4	1.4	1.4	1.9	1.9
82.5°	1.4	1.4	0.9	1.4	1.4
85°	1.4	0.9	0.9	0.9	0.9
87.5°	0.9	0.9	0.5	0.5	0.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)