

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: P1342905

Luminaire Tested: P3A09R459030D2WDE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1342905
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: P3A09R459030D2WDE010 E3CA301MW
Description: 3in Adjustable Dim to Warm LED luminaire with, R45 optic, 3000K CCT AND, 90CRI ,
E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

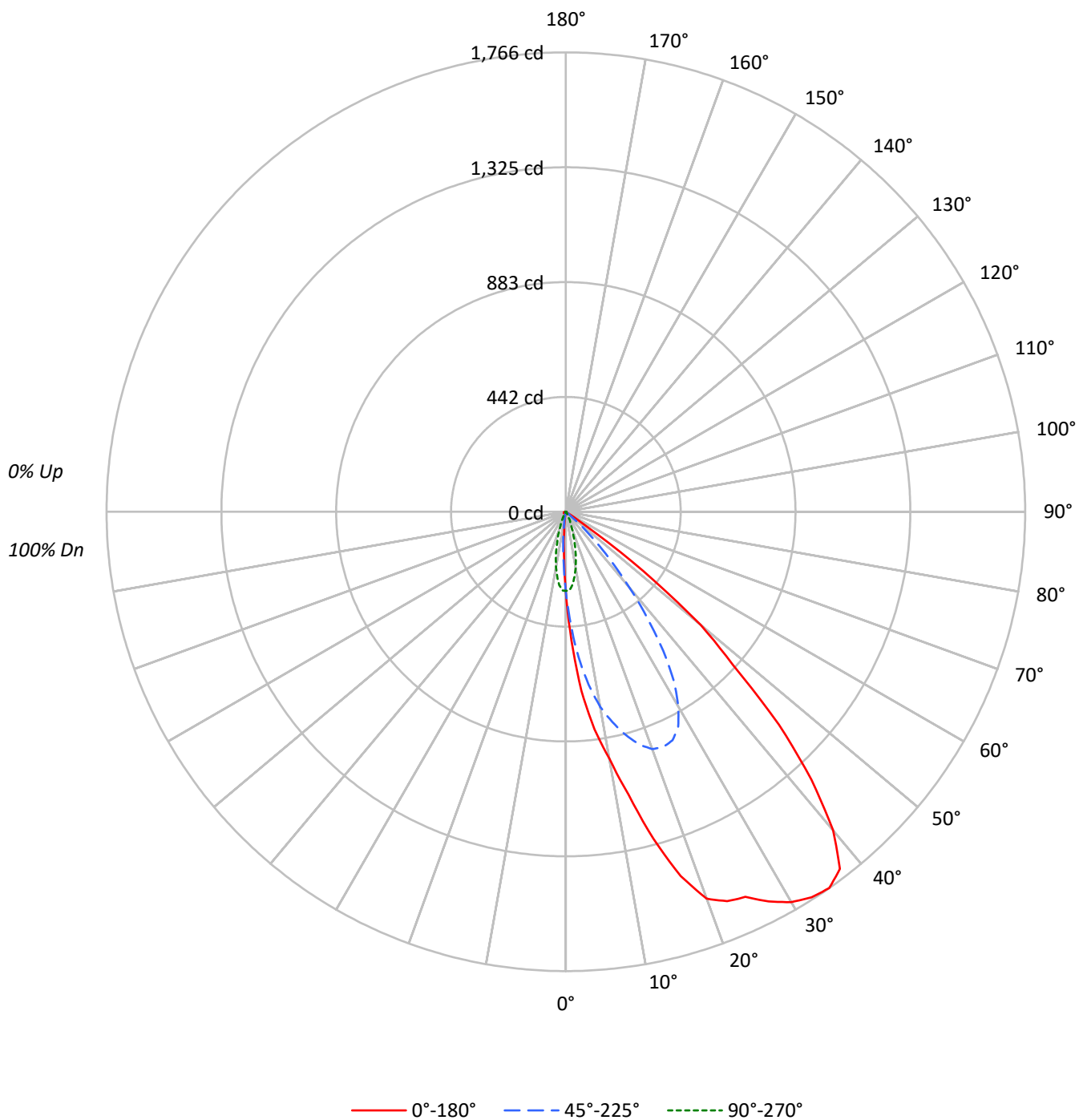
Lumens per Lamp: N/A
Luminaire Lumens: 800.0 lumens
Efficiency: N/A
Efficacy: 54.4 lumens/watt
Spacing Criteria (0/90/45): 2.13 / 0.47 / 1.22
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.7
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	93	90	95	91	88	91	88	86	89	86	84	84	84	82
3	99	91	85	80	96	89	84	80	87	82	78	84	80	77	82	79	76	76	76	74
4	92	83	76	71	90	82	76	71	80	74	70	77	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	81	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	57	52	62	56	51	61	55	51	60	55	51	51	51	49
8	71	59	52	47	69	59	52	47	57	51	47	56	51	47	55	50	46	46	46	45
9	66	55	48	43	65	54	47	43	53	47	43	52	47	43	51	46	42	42	42	41
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	39	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	66749	66749	66749	66749	66749
5°	152124	123420	62448	25027	17081
10°	214380	169536	48273	5522	2538
15°	295416	201704	30829	1816	1521
20°	369399	226540	16078	1260	1260
25°	395297	234546	7452	968	1137
30°	438751	219046	3393	1013	1190
35°	472637	174616	1071	1071	1446
40°	457343	108203	573	1345	1718
45°	359138	51044	620	1675	2078
50°	230747	5936	921	2047	2729
55°	35057	497	1032	2561	3326
60°	570	570	1184	2938	3508
65°	675	675	1401	3113	4151
70°	833	833	1731	3462	4744
75°	593	1101	2288	3982	5083
80°	884	1642	2526	4167	5935
85°	0	1761	3271	5032	5032

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 359138 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.3	4.2
10°-20°	120.4	15.1
20°-30°	211.6	26.5
30°-40°	240.3	30.0
40°-50°	155.6	19.5
50°-60°	30.5	3.8
60°-70°	3.7	0.5
70°-80°	3.1	0.4
80°-90°	1.4	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°	365.4	45.7
0°-40°	605.7	75.7
0°-60°	791.8	99.0
0°-90°	800.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	800.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	304	304	304	304	304	
5°	691	561	284	114	78	74
15°	1301	888	136	8	7	375
25°	1634	969	31	4	5	766
35°	1766	652	4	4	5	1085
45°	1158	165	2	5	7	873
55°	92	1	3	7	9	175
65°	1	1	3	6	8	1
75°	1	1	3	5	6	1
85°	0	1	1	2	2	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°	304.4	304.4	304.4	304.4	304.4	304.4	304.4	304.4	304.4	304.4	304.4
2.5°	494.4	493.1	495.1	481.7	481.0	471.0	468.3	457.0	441.6	434.2	416.8
5°	691.1	684.4	684.4	668.4	663.0	651.7	632.2	608.2	588.1	560.7	531.2
7.5°	843.0	841.7	841.7	827.6	814.2	798.2	772.1	744.6	712.5	670.4	627.6
10°	962.8	964.8	958.7	946.0	926.6	909.2	878.5	845.0	805.5	761.4	704.5
12.5°	1114.0	1099.2	1094.6	1065.8	1041.0	1007.6	970.8	932.7	883.8	828.3	764.1
15°	1301.3	1282.6	1263.8	1225.7	1184.2	1132.7	1075.2	1019.0	956.1	888.5	808.2
17.5°	1468.6	1468.6	1443.8	1383.6	1330.1	1253.8	1176.2	1101.2	1027.0	938.0	837.6
20°	1583.0	1576.9	1558.2	1514.1	1453.2	1366.9	1265.8	1160.8	1071.1	970.8	854.4
22.5°	1620.4	1619.1	1619.8	1593.7	1544.8	1455.2	1331.4	1207.6	1095.2	978.8	846.3
25°	1633.8	1636.5	1643.2	1633.1	1596.3	1506.7	1371.5	1229.7	1102.6	969.4	815.6
27.5°	1689.3	1684.0	1691.3	1684.7	1643.2	1536.1	1379.6	1224.4	1086.5	935.3	760.7
30°	1732.8	1731.5	1744.2	1738.2	1684.0	1554.9	1372.2	1204.3	1047.1	865.1	674.4
32.5°	1757.6	1758.3	1761.6	1736.8	1656.6	1514.1	1336.1	1163.5	972.8	773.4	562.0
35°	1765.6	1761.6	1742.9	1682.0	1572.3	1419.7	1247.1	1066.5	871.8	652.3	444.2
37.5°	1730.8	1710.1	1661.9	1570.9	1443.8	1301.3	1133.4	944.0	733.3	515.2	331.2
40°	1597.7	1570.3	1509.4	1416.4	1297.9	1160.1	988.2	790.1	568.7	378.0	232.8
42.5°	1398.3	1384.3	1320.7	1239.7	1139.4	1000.2	822.9	622.2	420.8	260.9	148.5
45°	1158.1	1140.1	1099.9	1028.3	949.4	803.5	638.3	445.6	287.0	164.6	73.6
47.5°	868.4	869.8	842.3	788.1	710.5	588.8	436.9	299.1	180.0	85.0	16.7
50°	676.4	667.0	628.2	572.7	482.4	392.1	282.3	188.7	95.0	17.4	1.3
52.5°	374.7	380.7	359.9	341.9	295.0	234.2	166.6	95.7	20.1	2.0	1.3
55°	91.7	97.0	93.0	95.0	98.3	87.6	67.6	18.7	2.0	1.3	1.3
57.5°	2.0	2.0	2.0	2.0	3.3	4.7	4.7	1.3	1.3	1.3	1.3
60°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
62.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
65°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
67.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
70°	1.3	1.3	1.3	0.7	1.3	1.3	1.3	1.3	1.3	1.3	1.3
72.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.3	1.3	1.3
75°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.3	1.3	1.3
77.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.3	1.3
80°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.3	1.3
82.5°	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7	0.7	0.7	1.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7	0.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7
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°	304.4	304.4	304.4	304.4	304.4	304.4	304.4	304.4
2.5°	408.1	395.4	372.0	302.4	242.9	196.0	167.9	165.3
5°	505.1	471.0	421.5	283.7	179.3	113.7	82.3	77.6
7.5°	582.1	533.9	457.6	252.9	122.4	58.2	32.1	26.8
10°	645.6	577.4	476.4	216.8	76.9	24.8	13.4	11.4
12.5°	689.1	606.8	479.7	176.6	44.2	12.0	8.7	8.0
15°	717.2	616.2	463.6	135.8	24.8	8.0	7.4	6.7
17.5°	728.6	608.2	432.9	98.3	13.4	6.0	6.0	6.0
20°	723.2	582.1	387.4	68.9	8.7	5.4	5.4	5.4
22.5°	697.8	537.2	330.5	46.2	6.0	4.7	4.7	4.7
25°	647.6	476.4	270.3	30.8	4.0	4.0	4.7	4.7
27.5°	572.7	401.4	206.7	20.7	3.3	4.0	4.7	4.7
30°	478.4	317.8	148.5	13.4	3.3	4.0	4.0	4.7
32.5°	380.0	231.5	97.7	8.0	2.7	4.0	4.7	5.4
35°	275.6	157.9	62.2	4.0	3.3	4.0	4.7	5.4
37.5°	193.4	103.0	36.1	2.7	3.3	4.0	5.4	5.4
40°	125.8	57.5	13.4	2.0	3.3	4.7	5.4	6.0
42.5°	65.6	20.1	2.7	2.0	3.3	4.7	6.0	6.7
45°	16.7	2.7	0.7	2.0	4.0	5.4	6.7	6.7
47.5°	2.0	0.7	0.7	2.7	4.0	6.0	6.7	7.4
50°	0.7	1.3	1.3	2.7	4.0	6.0	7.4	8.0
52.5°	1.3	1.3	1.3	2.7	4.7	6.0	8.0	8.7
55°	1.3	1.3	1.3	2.7	4.7	6.7	8.0	8.7
57.5°	1.3	1.3	1.3	2.7	4.7	6.7	8.0	8.0
60°	1.3	1.3	1.3	2.7	4.7	6.7	8.0	8.0
62.5°	1.3	1.3	2.0	2.7	4.7	6.0	8.0	8.0
65°	1.3	2.0	2.0	2.7	4.7	6.0	7.4	8.0
67.5°	1.3	1.3	2.0	2.7	4.7	6.0	7.4	8.0
70°	1.3	1.3	2.0	2.7	4.0	5.4	6.7	7.4
72.5°	1.3	1.3	2.0	2.7	4.0	5.4	6.0	6.7
75°	1.3	1.3	2.0	2.7	3.3	4.7	6.0	6.0
77.5°	1.3	1.3	2.0	2.0	3.3	4.0	5.4	5.4
80°	1.3	1.3	2.0	2.0	2.7	3.3	4.0	4.7
82.5°	1.3	1.3	1.3	2.0	2.0	2.7	3.3	3.3
85°	1.3	1.3	1.3	1.3	1.3	2.0	2.0	2.0
87.5°	0.7	1.3	1.3	1.3	1.3	1.3	1.3	0.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)