

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: P1342569

Luminaire Tested: P3A09R409835DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1342569
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: P3A09R409835DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R40 optic, 3500K CCT AND, 98CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

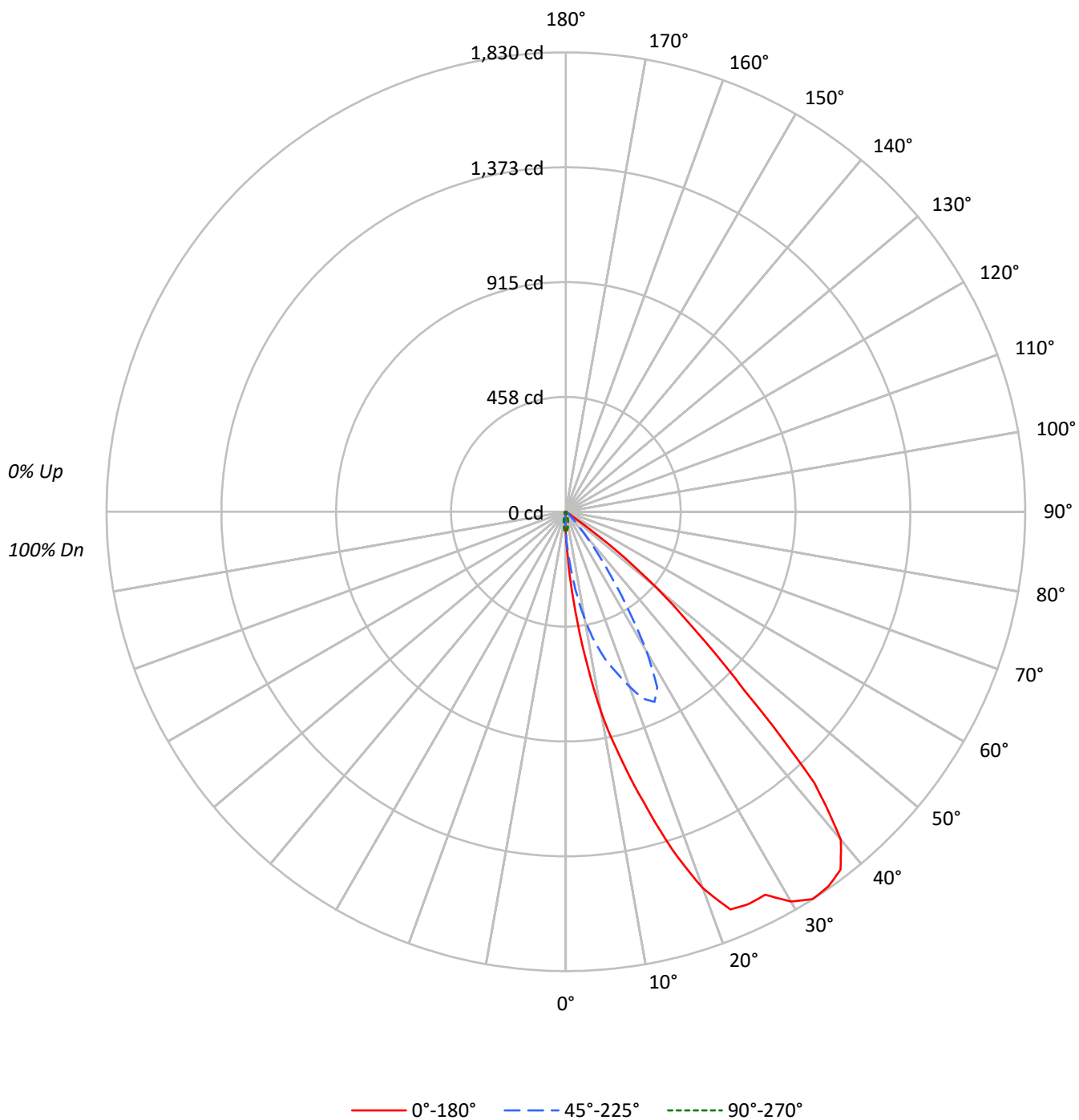
Lumens per Lamp: N/A
Luminaire Lumens: 675.0 lumens
Efficiency: N/A
Efficacy: 61.4 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.42 / 1.24
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 11
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	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°	17521	17521	17521	17521	17521
5°	78978	50363	15694	6031	4402
10°	181137	97304	11044	2160	1648
15°	271852	138071	6856	1158	1044
20°	372222	173055	3990	677	793
25°	417266	202221	2081	556	702
30°	453867	163240	861	430	734
35°	487789	83547	294	616	910
40°	487943	33320	172	658	1145
45°	311536	11133	341	1054	1582
50°	161735	1365	580	1365	1944
55°	13954	229	650	1759	2409
60°	482	263	746	2017	2763
65°	571	311	1193	2075	2958
70°	385	385	1475	2180	2949
75°	508	508	1440	2457	3389
80°	758	758	2147	2147	2904
85°	0	1510	4277	2768	2768

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 311536 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	15.6	2.3
10°-20°	91.4	13.5
20°-30°	200.1	29.6
30°-40°	227.9	33.8
40°-50°	120.3	17.8
50°-60°	14.2	2.1
60°-70°	2.6	0.4
70°-80°	2.1	0.3
80°-90°	0.9	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°	307.0	45.5
0°-40°	535.0	79.3
0°-60°	669.4	99.2
0°-90°	675.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	675.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	80	80	80	80	80	
5°	359	229	71	27	20	48
15°	1198	608	30	5	5	353
25°	1725	836	9	2	3	795
35°	1822	312	1	2	3	1129
45°	1005	36	1	3	5	810
55°	36	1	2	5	6	113
65°	1	1	2	4	6	1
75°	1	1	2	3	4	1
85°	0	1	2	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°	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9
2.5°	178.0	178.0	177.4	172.3	171.7	171.1	162.0	159.7	148.9	141.5	107.8
5°	358.8	350.9	350.3	341.2	325.8	305.2	292.1	271.0	250.4	228.8	132.9
7.5°	571.6	578.5	559.7	550.0	515.7	491.2	453.5	420.5	374.2	330.9	153.5
10°	813.5	801.5	782.7	763.9	726.8	682.9	627.0	568.2	501.5	437.0	164.9
12.5°	1002.4	987.0	975.6	949.9	913.4	856.9	790.1	711.4	623.0	530.0	164.3
15°	1197.5	1182.1	1156.4	1133.6	1079.4	1016.1	943.6	839.8	731.4	608.2	152.3
17.5°	1412.0	1392.0	1363.5	1328.7	1276.2	1206.0	1114.2	987.5	834.1	672.0	130.6
20°	1595.1	1583.1	1554.6	1513.5	1462.2	1393.7	1287.6	1147.3	960.1	741.6	103.8
22.5°	1714.9	1704.1	1684.7	1648.7	1609.9	1536.9	1439.9	1285.9	1065.7	805.0	78.7
25°	1724.6	1720.1	1714.9	1702.9	1679.5	1627.6	1532.9	1366.9	1131.3	835.8	58.2
27.5°	1719.5	1717.8	1716.6	1710.4	1694.9	1643.6	1546.6	1378.9	1122.7	787.9	42.8
30°	1792.5	1787.4	1784.5	1764.0	1723.5	1644.2	1517.5	1314.4	997.8	644.7	30.8
32.5°	1829.6	1828.4	1825.6	1805.6	1748.6	1645.3	1468.5	1158.7	791.3	465.5	21.1
35°	1822.2	1816.5	1806.2	1769.1	1689.8	1560.3	1309.9	925.3	571.1	312.1	13.7
37.5°	1797.1	1783.9	1764.0	1697.2	1591.7	1414.8	1062.3	681.2	388.5	202.0	8.0
40°	1704.6	1687.0	1655.6	1574.0	1435.4	1166.1	785.6	460.4	255.0	116.4	2.3
42.5°	1465.6	1442.8	1420.0	1328.7	1170.1	869.4	516.9	284.7	145.5	63.9	0.6
45°	1004.6	976.1	944.7	878.6	751.3	526.6	307.5	160.3	75.3	35.9	0.6
47.5°	697.7	684.6	629.8	545.4	418.2	279.0	159.2	78.7	39.9	16.5	0.6
50°	474.1	459.3	395.4	313.8	222.5	133.5	73.0	39.4	17.7	4.0	0.6
52.5°	248.7	230.5	190.0	144.9	90.1	55.9	31.9	17.1	5.1	0.6	0.6
55°	36.5	33.7	27.4	22.2	20.0	15.4	9.1	4.0	0.6	0.6	1.1
57.5°	1.1	1.1	1.1	1.1	1.7	1.7	1.1	0.6	0.6	0.6	1.1
60°	1.1	1.1	1.1	1.1	1.1	0.6	0.6	0.6	0.6	0.6	1.1
62.5°	1.1	1.1	1.1	1.1	1.1	0.6	0.6	0.6	0.6	0.6	1.1
65°	1.1	1.1	1.1	1.1	1.1	0.6	0.6	0.6	0.6	0.6	1.1
67.5°	1.1	1.1	1.1	1.1	0.6	0.6	0.6	0.6	0.6	1.1	1.7
70°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.7
72.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.1	1.7
75°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.7
77.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.1	1.7
80°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.1
82.5°	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6	0.6	1.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	1.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	1.1
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°	79.9	79.9	79.9	79.9	79.9
2.5°	78.7	58.2	45.1	38.8	38.2
5°	71.3	41.6	27.4	21.1	20.0
7.5°	60.5	29.1	16.0	11.4	10.8
10°	49.6	20.0	9.7	8.0	7.4
12.5°	39.4	13.1	6.8	6.3	5.7
15°	30.2	8.6	5.1	4.6	4.6
17.5°	22.8	5.7	4.0	4.0	4.0
20°	17.1	4.0	2.9	3.4	3.4
22.5°	12.0	2.9	2.3	2.9	2.9
25°	8.6	2.3	2.3	2.9	2.9
27.5°	5.7	1.7	1.7	2.3	2.9
30°	3.4	1.1	1.7	2.3	2.9
32.5°	1.7	1.1	1.7	2.9	2.9
35°	1.1	1.7	2.3	2.9	3.4
37.5°	0.6	1.7	2.3	3.4	3.4
40°	0.6	1.7	2.3	3.4	4.0
42.5°	1.1	2.3	2.9	4.0	4.6
45°	1.1	2.3	3.4	4.6	5.1
47.5°	1.1	2.3	4.0	5.1	5.1
50°	1.7	2.9	4.0	5.1	5.7
52.5°	1.7	2.9	4.0	5.7	6.3
55°	1.7	2.9	4.6	5.7	6.3
57.5°	1.7	3.4	4.6	5.7	6.3
60°	1.7	2.9	4.6	5.7	6.3
62.5°	2.3	2.9	4.0	5.7	5.7
65°	2.3	2.9	4.0	5.7	5.7
67.5°	2.3	2.9	4.0	5.1	5.1
70°	2.3	2.9	3.4	4.6	4.6
72.5°	2.3	2.9	3.4	4.0	4.6
75°	1.7	2.3	2.9	3.4	4.0
77.5°	1.7	2.3	2.3	3.4	3.4
80°	1.7	1.7	1.7	2.3	2.3
82.5°	1.7	1.7	1.1	1.7	1.7
85°	1.7	1.1	1.1	1.1	1.1
87.5°	1.1	1.1	0.6	0.6	0.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)