

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: P1334375

Luminaire Tested: P3A02R209040DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1334375
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-60)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A02R209040DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R20 optic, 4000K CCT AND, 90CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

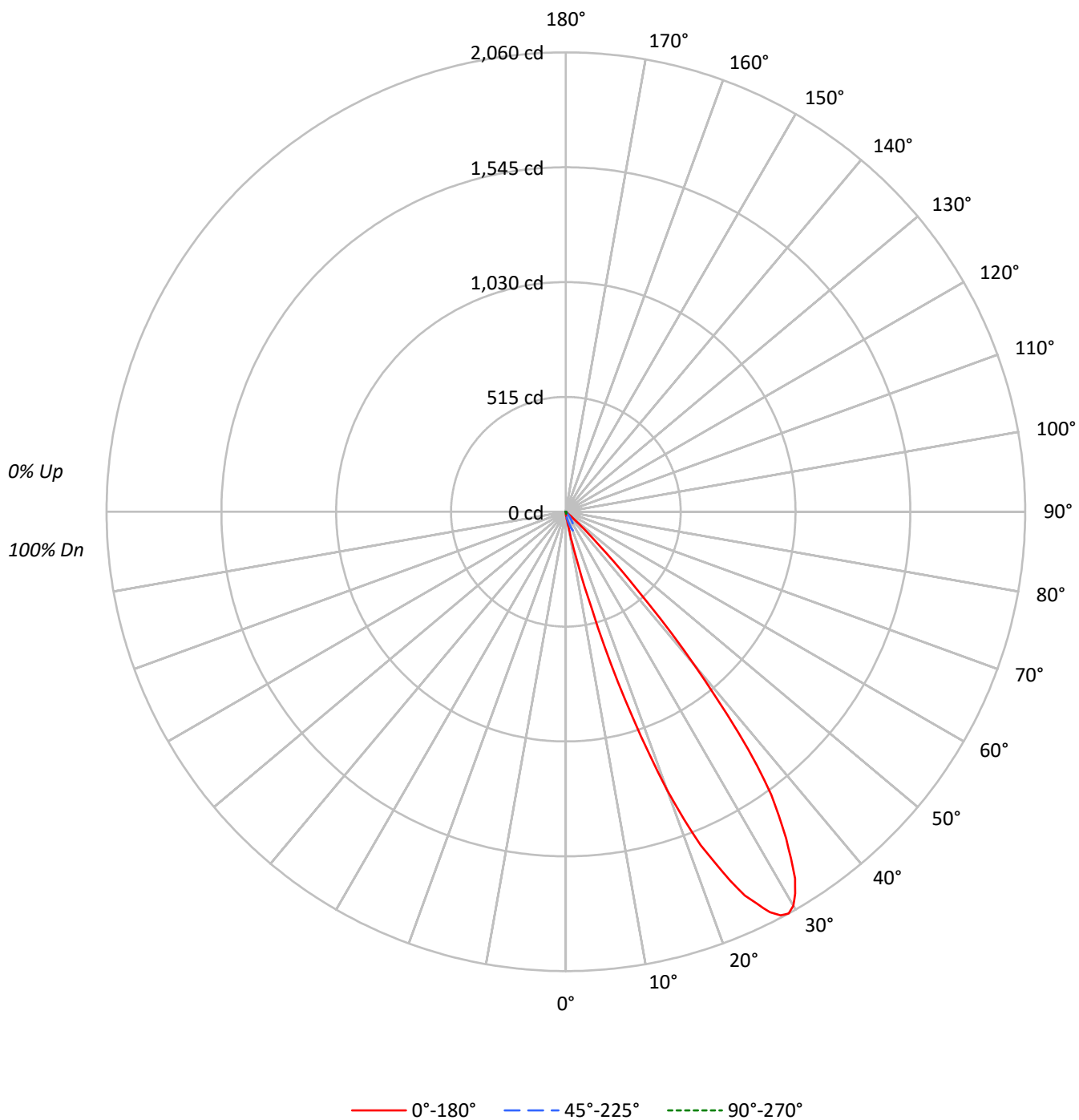
Lumens per Lamp: N/A
Luminaire Lumens: 289.0 lumens
Efficiency: N/A
Efficacy: 80.3 lumens/watt
Spacing Criteria (0/90/45): 2.29 / 0.53 / 1.19
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	102	102	100
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	93	93	92
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	85	85	83
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	77	77	75
4	93	84	78	73	91	83	77	72	81	76	71	79	74	71	77	73	70	70	70	68
5	87	77	70	65	85	76	70	65	74	69	64	72	68	64	71	67	63	63	63	61
6	81	71	64	59	80	70	63	58	68	62	58	67	62	58	65	61	57	57	57	55
7	76	65	58	53	74	64	57	53	63	57	52	62	56	52	60	55	52	52	52	50
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	47	47	45
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	51	46	43	43	43	41
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	39	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	2193	2193	2193	2193	2193
5°	5019	3742	2069	1277	1101
10°	15831	6546	1692	690	534
15°	102498	12077	1249	227	68
20°	309334	20675	863	0	0
25°	459414	20880	508	0	0
30°	516636	15876	203	0	0
35°	445761	9476	134	0	0
40°	256681	3235	0	0	0
45°	62611	1302	93	0	93
50°	7505	341	102	102	273
55°	994	0	191	191	382
60°	132	0	351	351	570
65°	156	156	519	519	830
70°	192	192	641	641	833
75°	0	254	847	678	847
80°	0	379	1010	631	1010
85°	0	755	2013	755	755

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°

Vertical Angle: 45°

Luminance: 63014 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.3	0.5
10°-20°	26.8	9.3
20°-30°	116.7	40.4
30°-40°	117.6	40.7
40°-50°	23.6	8.2
50°-60°	1.2	0.4
60°-70°	0.8	0.3
70°-80°	0.7	0.2
80°-90°	0.4	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°	144.9	50.1
0°-40°	262.4	90.8
0°-60°	287.2	99.4
0°-90°	289.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	289.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	10	10	10	10	10	
5°	23	17	9	6	5	4
15°	452	53	6	1	0	177
25°	1899	86	2	0	0	856
35°	1665	35	0	0	0	991
45°	202	4	0	0	0	220
55°	3	0	0	0	1	5
65°	0	0	1	1	2	0
75°	0	0	1	1	1	0
85°	0	0	1	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
2.5°	14.9	14.9	14.7	14.7	14.4	14.7	14.2	14.4	14.4	14.2	12.8
5°	22.8	23.3	23.1	23.1	22.8	23.1	22.5	22.0	21.5	21.5	17.0
7.5°	37.5	37.2	36.7	37.0	36.2	35.7	35.1	34.9	33.3	32.5	22.3
10°	71.1	72.6	71.3	71.1	66.3	66.1	62.9	58.5	54.5	52.4	29.4
12.5°	195.6	204.0	190.9	184.6	180.9	166.8	160.7	145.3	130.3	119.0	37.2
15°	451.5	472.2	445.7	447.6	425.5	385.2	349.8	319.3	283.4	247.2	53.2
17.5°	884.6	867.9	853.4	829.0	784.2	725.0	648.7	571.3	504.5	434.5	74.2
20°	1325.6	1310.7	1277.9	1224.7	1167.5	1079.7	989.0	872.8	760.4	655.0	88.6
21°	1477.4	1472.5	1418.7	1385.9	1297.8	1213.9	1109.3	985.1	858.4	733.6	91.0
22°	1613.0	1583.1	1554.3	1505.8	1418.2	1327.0	1210.5	1079.7	942.3	803.6	91.2
23°	1706.9	1693.2	1666.0	1611.2	1524.1	1416.9	1294.2	1157.3	1012.6	853.2	90.5
24°	1810.7	1793.4	1753.5	1689.6	1601.7	1495.8	1355.8	1220.0	1062.7	894.9	88.4
25°	1898.8	1871.8	1824.6	1755.6	1659.7	1550.3	1409.5	1260.4	1097.5	922.9	86.3
26°	1955.9	1941.3	1880.7	1805.7	1702.9	1590.2	1446.5	1291.3	1120.1	935.8	82.9
27°	2015.5	1988.5	1928.9	1842.7	1731.3	1616.1	1467.5	1306.2	1127.9	936.3	78.7
28°	2049.6	2020.2	1952.8	1862.1	1749.6	1630.6	1479.5	1311.0	1126.4	928.2	73.7
29°	2060.3	2023.3	1957.5	1865.2	1754.1	1631.6	1477.7	1304.1	1112.5	908.2	67.9
30°	2040.4	2002.6	1940.2	1850.3	1739.9	1618.5	1460.7	1281.6	1087.8	879.7	62.7
31°	1996.9	1964.9	1904.6	1814.4	1708.4	1587.8	1422.1	1244.6	1045.9	841.4	56.6
32°	1939.4	1908.0	1848.7	1767.2	1659.4	1537.8	1369.4	1186.9	996.6	784.2	50.6
33°	1853.2	1835.1	1781.9	1704.0	1596.2	1466.2	1298.6	1118.0	926.3	720.8	45.4
34°	1765.9	1743.0	1705.8	1620.6	1504.7	1374.9	1206.3	1022.8	840.6	649.7	40.4
35°	1665.2	1651.5	1593.1	1524.9	1408.5	1275.8	1108.3	930.3	740.7	570.5	35.4
36°	1567.6	1546.7	1480.1	1408.0	1295.0	1151.5	986.1	818.8	654.4	496.3	30.2
37°	1426.1	1394.1	1346.6	1270.6	1138.4	1016.3	865.2	710.0	548.2	416.1	24.4
38°	1259.6	1244.6	1178.8	1102.3	992.9	877.0	727.6	596.0	452.3	347.4	18.6
39°	1063.2	1062.9	1000.0	944.7	837.7	733.3	598.6	483.7	373.4	279.8	14.4
40°	896.7	865.8	827.0	757.5	675.4	586.8	468.8	378.6	289.7	225.5	11.3
42.5°	470.1	467.5	444.7	392.5	346.6	294.4	234.1	195.1	152.6	124.3	7.1
45°	201.9	203.2	187.5	179.6	161.8	140.0	118.2	98.6	84.4	68.4	4.2
47.5°	51.1	49.0	48.5	50.3	50.3	48.8	43.8	41.2	38.0	34.9	2.4
50°	22.0	21.5	21.0	21.0	19.7	18.9	17.6	16.0	14.7	13.1	1.0
52.5°	8.1	8.4	8.7	8.4	8.4	8.1	8.1	7.9	7.1	6.3	0.5
55°	2.6	2.6	2.6	2.9	2.9	3.1	3.1	3.1	3.1	2.9	0.0
57.5°	0.5	0.5	0.8	0.8	0.8	0.8	0.8	0.8	1.0	1.0	0.0
60°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0
62.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
65°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
67.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
70°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
72.5°	0.3	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
75°	0.0	0.0	0.0	0.3	0.0	0.3	0.3	0.0	0.3	0.3	0.3
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3



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CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
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):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	10.0	10.0	10.0	10.0	10.0	10.0
2.5°	11.5	10.2	8.7	7.3	7.1	6.8
5°	12.8	9.4	7.1	5.8	5.2	5.0
7.5°	13.9	8.7	5.8	4.2	3.7	3.4
10°	14.4	7.6	4.7	3.1	2.4	2.4
12.5°	14.7	6.6	3.4	2.1	1.3	1.3
15°	14.4	5.5	2.6	1.0	0.3	0.3
17.5°	13.1	4.5	1.6	0.3	0.0	0.0
20°	11.3	3.7	1.0	0.0	0.0	0.0
21°	10.7	3.1	0.8	0.0	0.0	0.0
22°	10.0	2.9	0.5	0.0	0.0	0.0
23°	9.2	2.6	0.5	0.0	0.0	0.0
24°	8.4	2.4	0.3	0.0	0.0	0.0
25°	7.9	2.1	0.3	0.0	0.0	0.0
26°	7.3	1.8	0.3	0.0	0.0	0.0
27°	6.6	1.6	0.0	0.0	0.0	0.0
28°	6.0	1.3	0.0	0.0	0.0	0.0
29°	5.2	1.0	0.0	0.0	0.0	0.0
30°	4.5	0.8	0.0	0.0	0.0	0.0
31°	3.7	0.8	0.0	0.0	0.0	0.0
32°	3.1	0.5	0.0	0.0	0.0	0.0
33°	2.6	0.5	0.0	0.0	0.0	0.0
34°	2.4	0.5	0.0	0.0	0.0	0.0
35°	2.1	0.5	0.0	0.0	0.0	0.0
36°	1.6	0.3	0.0	0.0	0.0	0.0
37°	1.3	0.3	0.0	0.0	0.0	0.0
38°	1.0	0.3	0.0	0.0	0.0	0.0
39°	0.8	0.0	0.0	0.0	0.0	0.0
40°	0.8	0.0	0.0	0.0	0.0	0.0
42.5°	0.3	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.3	0.0	0.0	0.3	0.3
47.5°	0.0	0.3	0.0	0.0	0.3	0.5
50°	0.0	0.3	0.3	0.3	0.5	0.8
52.5°	0.0	0.5	0.3	0.3	0.8	0.8
55°	0.3	0.5	0.3	0.5	1.0	1.0
57.5°	0.3	0.5	0.5	0.8	1.0	1.3
60°	0.5	0.8	0.8	0.8	1.3	1.3
62.5°	0.5	0.8	1.0	1.0	1.3	1.6
65°	0.5	1.0	1.0	1.0	1.3	1.6
67.5°	0.8	1.0	1.0	1.0	1.3	1.6
70°	0.8	1.0	1.0	1.0	1.3	1.3
72.5°	0.8	1.0	0.8	1.0	1.0	1.3
75°	0.8	1.0	0.8	0.8	1.0	1.0
77.5°	0.5	0.8	0.8	0.5	0.8	0.8
80°	0.5	0.8	0.5	0.5	0.8	0.8



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.5	0.8	0.5	0.3	0.5	0.5
85°	0.5	0.8	0.5	0.3	0.3	0.3
87.5°	0.5	0.8	0.5	0.3	0.0	0.3
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)