

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: P1334347

Luminaire Tested: P3A02R209030DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1334347
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: P3A02R209030DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R20 optic, 3000K CCT AND, 90CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

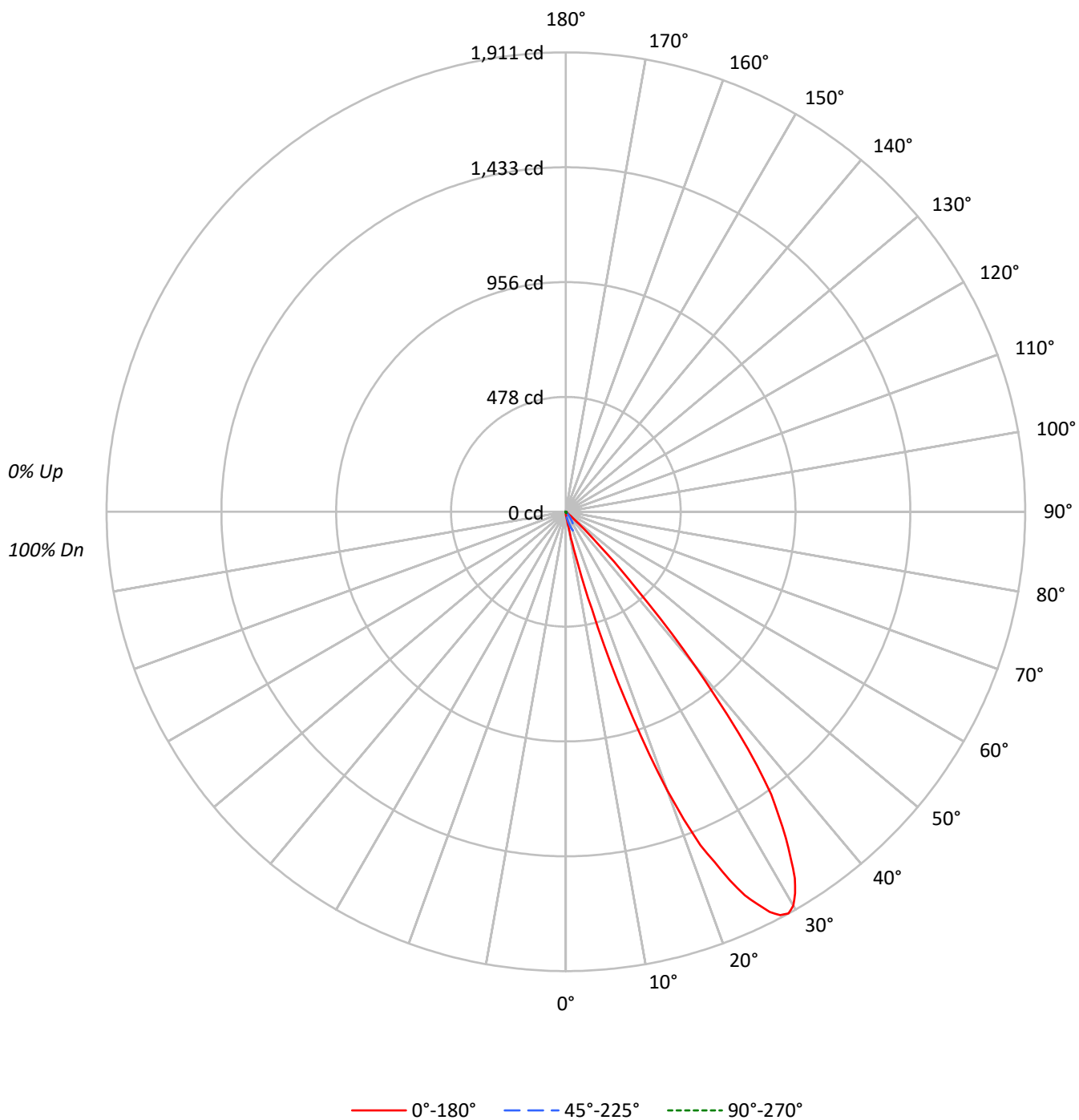
Lumens per Lamp: N/A
Luminaire Lumens: 268.0 lumens
Efficiency: N/A
Efficacy: 74.4 lumens/watt
Spacing Criteria (0/90/45): 2.3 / 0.54 / 1.19
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	2017	2017	2017	2017	2017
5°	4667	3478	1937	1167	1013
10°	14674	6056	1581	646	490
15°	95052	11215	1158	227	45
20°	286862	19182	793	0	0
25°	426025	19356	460	0	0
30°	479086	14711	177	0	0
35°	413370	8780	134	0	0
40°	238017	3006	0	0	0
45°	58053	1209	62	0	62
50°	6959	341	68	68	239
55°	918	0	191	191	382
60°	88	0	307	307	526
65°	104	104	519	519	778
70°	128	128	641	641	769
75°	0	169	847	593	847
80°	0	253	884	631	884
85°	0	503	1761	503	503

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°

Vertical Angle: 45°

Luminance: 58425 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.2	0.5
10°-20°	24.8	9.3
20°-30°	108.3	40.4
30°-40°	109.0	40.7
40°-50°	21.9	8.2
50°-60°	1.1	0.4
60°-70°	0.7	0.3
70°-80°	0.6	0.2
80°-90°	0.3	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°	134.3	50.1
0°-40°	243.3	90.8
0°-60°	266.3	99.4
0°-90°	268.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	268.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	9	9	9	9	9	
5°	21	16	9	5	5	3
15°	419	49	5	1	0	164
25°	1761	80	2	0	0	794
35°	1544	33	0	0	0	919
45°	187	4	0	0	0	204
55°	2	0	0	0	1	4
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°	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2
2.5°	13.9	13.9	13.6	13.6	13.4	13.6	13.1	13.4	13.4	13.1	11.9
5°	21.2	21.6	21.4	21.4	21.2	21.4	20.9	20.4	19.9	19.9	15.8
7.5°	34.8	34.5	34.0	34.3	33.6	33.1	32.6	32.3	30.9	30.1	20.7
10°	65.9	67.3	66.1	65.9	61.5	61.3	58.4	54.2	50.6	48.6	27.2
12.5°	181.4	189.2	177.0	171.2	167.8	154.6	149.0	134.7	120.8	110.4	34.5
15°	418.7	437.9	413.3	415.0	394.6	357.2	324.3	296.1	262.8	229.3	49.4
17.5°	820.4	804.8	791.4	768.8	727.2	672.3	601.5	529.8	467.8	402.9	68.8
20°	1229.3	1215.5	1185.1	1135.7	1082.7	1001.2	917.1	809.4	705.1	607.4	82.2
21°	1370.1	1365.5	1315.6	1285.2	1203.5	1125.7	1028.7	913.5	796.0	680.3	84.4
22°	1495.8	1468.1	1441.3	1396.4	1315.1	1230.5	1122.6	1001.2	873.8	745.2	84.6
23°	1582.8	1570.2	1544.9	1494.1	1413.4	1313.9	1200.1	1073.2	939.0	791.2	83.9
24°	1679.1	1663.1	1626.1	1566.8	1485.3	1387.1	1257.3	1131.3	985.4	829.8	81.9
25°	1760.8	1735.8	1692.0	1628.1	1539.1	1437.7	1307.1	1168.8	1017.8	855.9	80.0
26°	1813.8	1800.2	1744.0	1674.5	1579.2	1474.6	1341.4	1197.5	1038.7	867.8	76.8
27°	1869.0	1844.0	1788.8	1708.8	1605.5	1498.7	1360.9	1211.3	1046.0	868.3	72.9
28°	1900.6	1873.4	1810.9	1726.8	1622.5	1512.1	1372.0	1215.7	1044.5	860.7	68.3
29°	1910.6	1876.3	1815.3	1729.7	1626.6	1513.1	1370.3	1209.4	1031.6	842.2	63.0
30°	1892.1	1857.1	1799.2	1715.8	1613.5	1500.9	1354.5	1188.5	1008.8	815.7	58.1
31°	1851.8	1822.1	1766.2	1682.5	1584.3	1472.5	1318.8	1154.2	969.9	780.2	52.5
32°	1798.5	1769.3	1714.4	1638.8	1538.8	1426.0	1269.9	1100.7	924.2	727.2	46.9
33°	1718.5	1701.7	1652.4	1580.2	1480.2	1359.6	1204.3	1036.7	859.0	668.4	42.1
34°	1637.5	1616.4	1581.9	1502.8	1395.4	1275.0	1118.7	948.5	779.5	602.5	37.4
35°	1544.2	1531.5	1477.3	1414.1	1306.1	1183.1	1027.8	862.7	686.9	529.1	32.8
36°	1453.7	1434.3	1372.5	1305.7	1200.9	1067.9	914.4	759.3	606.9	460.3	28.0
37°	1322.4	1292.8	1248.8	1178.3	1055.7	942.4	802.4	658.4	508.4	385.9	22.6
38°	1168.0	1154.2	1093.2	1022.2	920.8	813.3	674.7	552.7	419.4	322.2	17.3
39°	985.9	985.7	927.3	876.0	776.8	680.1	555.1	448.6	346.2	259.4	13.4
40°	831.5	802.8	766.9	702.4	626.3	544.1	434.7	351.1	268.7	209.1	10.5
42.5°	435.9	433.5	412.4	364.0	321.4	273.0	217.1	180.9	141.5	115.2	6.6
45°	187.2	188.4	173.8	166.6	150.0	129.8	109.7	91.4	78.3	63.5	3.9
47.5°	47.4	45.5	45.0	46.7	46.7	45.2	40.6	38.2	35.3	32.3	2.2
50°	20.4	19.9	19.5	19.5	18.2	17.5	16.3	14.8	13.6	12.2	1.0
52.5°	7.5	7.8	8.0	7.8	7.8	7.5	7.5	7.3	6.6	5.8	0.5
55°	2.4	2.4	2.4	2.7	2.7	2.9	2.9	2.9	2.9	2.7	0.0
57.5°	0.5	0.5	0.7	0.7	0.7	0.7	0.7	0.7	1.0	1.0	0.0
60°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0
62.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
65°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
67.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
70°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
72.5°	0.2	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
75°	0.0	0.0	0.0	0.2	0.0	0.2	0.2	0.0	0.2	0.2	0.2
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2



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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	0.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
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°	9.2	9.2	9.2	9.2	9.2	9.2
2.5°	10.7	9.5	8.0	6.8	6.6	6.3
5°	11.9	8.8	6.6	5.3	4.9	4.6
7.5°	12.9	8.0	5.3	3.9	3.4	3.2
10°	13.4	7.1	4.4	2.9	2.2	2.2
12.5°	13.6	6.1	3.2	1.9	1.2	1.2
15°	13.4	5.1	2.4	1.0	0.2	0.2
17.5°	12.2	4.1	1.5	0.2	0.0	0.0
20°	10.5	3.4	1.0	0.0	0.0	0.0
21°	10.0	2.9	0.7	0.0	0.0	0.0
22°	9.2	2.7	0.5	0.0	0.0	0.0
23°	8.5	2.4	0.5	0.0	0.0	0.0
24°	7.8	2.2	0.2	0.0	0.0	0.0
25°	7.3	1.9	0.2	0.0	0.0	0.0
26°	6.8	1.7	0.2	0.0	0.0	0.0
27°	6.1	1.5	0.0	0.0	0.0	0.0
28°	5.6	1.2	0.0	0.0	0.0	0.0
29°	4.9	1.0	0.0	0.0	0.0	0.0
30°	4.1	0.7	0.0	0.0	0.0	0.0
31°	3.4	0.7	0.0	0.0	0.0	0.0
32°	2.9	0.5	0.0	0.0	0.0	0.0
33°	2.4	0.5	0.0	0.0	0.0	0.0
34°	2.2	0.5	0.0	0.0	0.0	0.0
35°	1.9	0.5	0.0	0.0	0.0	0.0
36°	1.5	0.2	0.0	0.0	0.0	0.0
37°	1.2	0.2	0.0	0.0	0.0	0.0
38°	1.0	0.2	0.0	0.0	0.0	0.0
39°	0.7	0.0	0.0	0.0	0.0	0.0
40°	0.7	0.0	0.0	0.0	0.0	0.0
42.5°	0.2	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.2	0.0	0.0	0.2	0.2
47.5°	0.0	0.2	0.0	0.0	0.2	0.5
50°	0.0	0.2	0.2	0.2	0.5	0.7
52.5°	0.0	0.5	0.2	0.2	0.7	0.7
55°	0.2	0.5	0.2	0.5	1.0	1.0
57.5°	0.2	0.5	0.5	0.7	1.0	1.2
60°	0.5	0.7	0.7	0.7	1.2	1.2
62.5°	0.5	0.7	1.0	1.0	1.2	1.5
65°	0.5	1.0	1.0	1.0	1.2	1.5
67.5°	0.7	1.0	1.0	1.0	1.2	1.5
70°	0.7	1.0	1.0	1.0	1.2	1.2
72.5°	0.7	1.0	0.7	1.0	1.0	1.2
75°	0.7	1.0	0.7	0.7	1.0	1.0
77.5°	0.5	0.7	0.7	0.5	0.7	0.7
80°	0.5	0.7	0.5	0.5	0.7	0.7



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.5	0.7	0.5	0.2	0.5	0.5
85°	0.5	0.7	0.5	0.2	0.2	0.2
87.5°	0.5	0.7	0.5	0.2	0.0	0.2
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)