

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: P1333993

Luminaire Tested: P3A02R159027DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1333993
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-59)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A02R159027DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R15 optic, 2700K CCT AND, 90CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

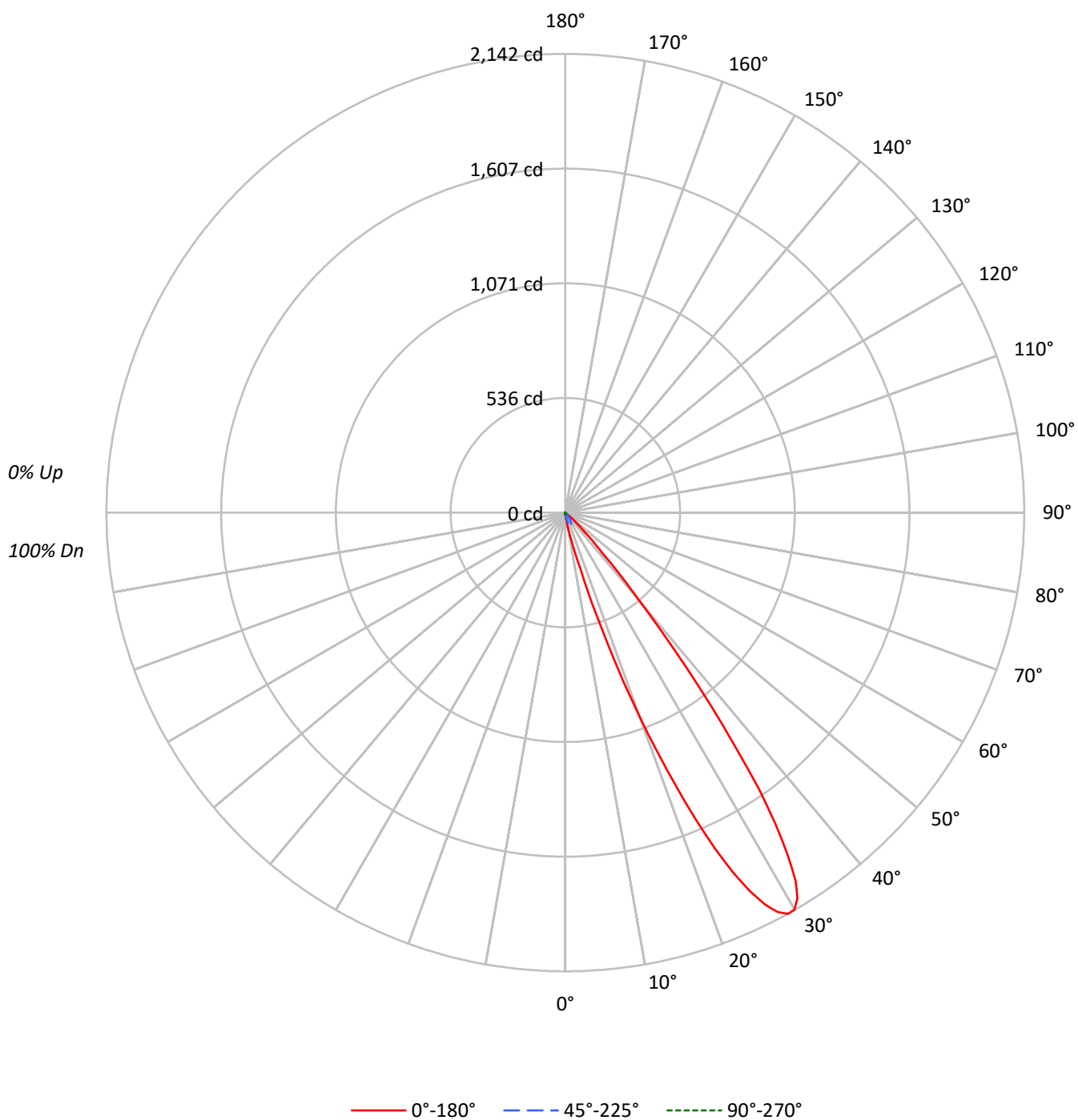
Lumens per Lamp: N/A
Luminaire Lumens: 234.0 lumens
Efficiency: N/A
Efficacy: 65.0 lumens/watt
Spacing Criteria (0/90/45): 2.35 / 0.49 / 1.26
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	75	71	79	74	70	77	73	70	70	70	68
5	87	77	70	65	85	76	70	65	74	69	64	72	67	64	71	66	63	63	63	61
6	81	71	64	59	80	70	63	58	68	62	58	67	61	57	65	61	57	57	57	55
7	76	65	58	53	74	64	57	53	63	57	52	61	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	42	42	42	41
10	62	51	44	39	61	50	43	39	49	43	39	48	43	39	47	42	39	39	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	1688	1688	1688	1688	1688
5°	3654	2707	1607	858	704
10°	16210	5121	1269	356	245
15°	61340	11828	885	159	114
20°	235897	16685	537	47	47
25°	448574	15630	266	0	0
30°	541881	12610	127	0	0
35°	422633	8593	54	0	0
40°	154232	4237	57	0	57
45°	39601	1271	62	0	155
50°	6686	171	68	68	239
55°	879	0	191	268	421
60°	88	88	307	395	614
65°	104	104	467	571	726
70°	128	128	577	577	705
75°	169	169	763	593	763
80°	0	253	884	631	884
85°	0	503	1761	503	503

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 39601 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.1	0.5
10°-20°	17.9	7.7
20°-30°	99.5	42.5
30°-40°	96.1	41.1
40°-50°	16.7	7.1
50°-60°	1.2	0.5
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°	118.4	50.6
0°-40°	214.5	91.7
0°-60°	232.4	99.3
0°-90°	234.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	234.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	8	8	8	8	8	
5°	17	12	7	4	3	3
15°	270	52	4	1	0	120
25°	1854	65	1	0	0	829
35°	1579	32	0	0	0	908
45°	128	4	0	0	0	137
55°	2	0	0	1	1	4
65°	0	0	1	1	1	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°	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
2.5°	11.4	10.9	11.2	11.2	11.2	11.2	11.2	10.7	10.7	10.9	9.8
5°	16.6	16.6	16.4	16.6	16.6	16.4	15.9	15.7	15.7	15.3	12.3
7.5°	33.2	32.8	32.8	32.3	30.0	29.4	28.9	27.8	25.7	25.3	15.9
10°	72.8	73.1	71.5	69.4	69.2	65.8	64.6	62.6	58.7	54.9	23.0
12.5°	132.2	129.3	125.4	125.6	119.0	116.8	111.5	105.8	99.9	93.8	37.8
15°	270.2	261.8	266.8	254.5	240.6	224.9	209.0	188.9	171.9	153.6	52.1
17.5°	569.1	577.3	563.4	510.8	478.5	440.5	387.0	335.3	291.1	255.6	63.7
20°	1010.9	1022.9	975.8	930.1	851.5	766.0	676.7	575.7	478.9	395.2	71.5
21°	1195.5	1188.2	1168.8	1095.6	1005.0	905.7	796.5	684.9	567.7	458.9	72.2
22°	1373.9	1377.3	1332.3	1255.6	1161.3	1051.4	918.0	780.3	654.0	510.8	71.0
23°	1551.7	1562.6	1503.0	1431.1	1312.5	1188.4	1034.1	885.5	729.3	570.2	68.7
24°	1716.3	1708.8	1668.5	1577.9	1451.1	1305.9	1145.6	965.3	791.2	621.0	66.9
25°	1854.0	1853.1	1789.8	1701.7	1556.7	1395.8	1219.1	1030.7	844.3	655.3	64.6
26°	1966.7	1948.2	1898.4	1790.9	1647.8	1478.0	1279.5	1078.3	874.1	672.6	62.4
27°	2053.6	2040.4	1973.5	1861.7	1712.2	1524.4	1318.2	1101.9	887.7	678.3	59.4
28°	2112.1	2097.8	2026.5	1911.4	1747.7	1553.5	1338.7	1111.9	887.7	672.9	56.7
29°	2142.4	2122.8	2051.8	1928.4	1755.9	1556.9	1333.6	1102.2	873.8	656.0	53.5
30°	2140.1	2115.8	2041.3	1912.9	1731.5	1528.9	1305.6	1066.9	842.4	631.0	49.8
31°	2103.2	2075.9	1992.8	1860.6	1681.2	1476.1	1252.8	1019.5	799.4	598.4	46.2
32°	2028.4	1993.8	1912.7	1780.9	1603.8	1397.2	1176.1	946.5	735.0	550.8	42.3
33°	1906.3	1871.5	1784.6	1661.0	1499.1	1297.0	1074.4	867.9	661.7	494.2	39.2
34°	1753.6	1721.7	1646.9	1522.3	1367.1	1170.2	957.4	759.4	585.7	437.9	35.7
35°	1578.8	1528.0	1460.2	1361.6	1210.3	1012.2	831.1	658.3	507.4	379.0	32.1
36°	1342.3	1351.4	1279.5	1158.8	1033.4	878.2	704.3	548.8	424.3	323.0	28.9
37°	1132.7	1118.3	1072.6	979.2	870.0	715.9	590.2	465.3	356.9	273.1	25.5
38°	913.7	916.9	872.0	800.3	692.0	588.6	475.0	382.2	298.6	232.4	22.3
39°	715.2	712.7	700.6	634.2	536.1	468.2	384.9	316.9	248.8	196.0	18.9
40°	538.8	542.9	514.7	474.6	417.5	361.7	306.6	252.7	205.8	165.3	14.8
42.5°	262.0	268.4	249.7	239.5	214.2	192.3	162.3	132.5	112.7	97.4	6.6
45°	127.7	124.1	122.5	117.5	111.5	99.7	88.3	75.8	66.2	57.1	4.1
47.5°	65.3	63.5	63.5	61.5	59.4	55.5	49.8	45.8	41.2	35.5	1.6
50°	19.6	19.3	19.1	19.3	18.7	19.3	19.8	20.0	18.2	18.0	0.5
52.5°	7.7	8.0	7.7	8.4	8.4	8.2	8.4	8.2	8.0	7.1	0.0
55°	2.3	2.3	2.3	2.3	2.3	2.3	2.5	2.7	2.5	2.7	0.0
57.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.0
60°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.2
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	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
75°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	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°	7.7	7.7	7.7	7.7	7.7	7.7
2.5°	9.1	8.0	6.6	5.5	5.0	4.8
5°	9.8	7.3	5.0	3.9	3.4	3.2
7.5°	10.5	6.6	3.9	2.7	2.0	1.8
10°	10.9	5.7	3.0	1.6	1.1	1.1
12.5°	10.9	4.6	2.0	0.9	0.7	0.7
15°	10.7	3.9	1.4	0.7	0.5	0.5
17.5°	10.5	3.0	0.9	0.5	0.2	0.5
20°	9.8	2.3	0.5	0.2	0.2	0.2
21°	9.6	2.0	0.5	0.2	0.2	0.2
22°	9.1	1.8	0.2	0.0	0.2	0.2
23°	8.6	1.4	0.2	0.0	0.0	0.0
24°	8.0	1.1	0.2	0.0	0.0	0.0
25°	7.5	1.1	0.2	0.0	0.0	0.0
26°	7.1	0.7	0.0	0.0	0.0	0.0
27°	6.4	0.5	0.0	0.0	0.0	0.0
28°	5.9	0.5	0.0	0.0	0.0	0.0
29°	5.2	0.5	0.0	0.0	0.0	0.0
30°	4.6	0.5	0.0	0.0	0.0	0.0
31°	3.6	0.2	0.0	0.0	0.0	0.0
32°	3.0	0.2	0.0	0.0	0.0	0.0
33°	2.0	0.2	0.0	0.0	0.0	0.0
34°	1.4	0.2	0.0	0.0	0.0	0.0
35°	1.1	0.2	0.0	0.0	0.0	0.0
36°	0.7	0.2	0.0	0.0	0.0	0.2
37°	0.7	0.2	0.0	0.0	0.0	0.2
38°	0.5	0.2	0.0	0.0	0.0	0.2
39°	0.2	0.2	0.0	0.0	0.0	0.2
40°	0.2	0.2	0.0	0.0	0.0	0.2
42.5°	0.0	0.2	0.0	0.0	0.2	0.5
45°	0.0	0.2	0.0	0.0	0.2	0.5
47.5°	0.0	0.2	0.0	0.0	0.5	0.5
50°	0.0	0.2	0.2	0.2	0.5	0.7
52.5°	0.0	0.5	0.2	0.5	0.7	0.9
55°	0.2	0.5	0.5	0.7	0.9	1.1
57.5°	0.2	0.7	0.7	0.9	1.1	1.1
60°	0.5	0.7	0.9	0.9	1.4	1.4
62.5°	0.5	0.9	0.9	0.9	1.4	1.4
65°	0.5	0.9	0.9	1.1	1.4	1.4
67.5°	0.5	0.9	0.9	0.9	1.1	1.4
70°	0.5	0.9	0.7	0.9	1.1	1.1
72.5°	0.5	0.9	0.7	0.7	0.9	1.1
75°	0.5	0.9	0.7	0.7	0.9	0.9
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	0.2	0.0	0.0	0.2
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)