

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: P1334421

Luminaire Tested: P3A02R209730DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1334421
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: P3A02R209730DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R20 optic, 3000K CCT AND, 97CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

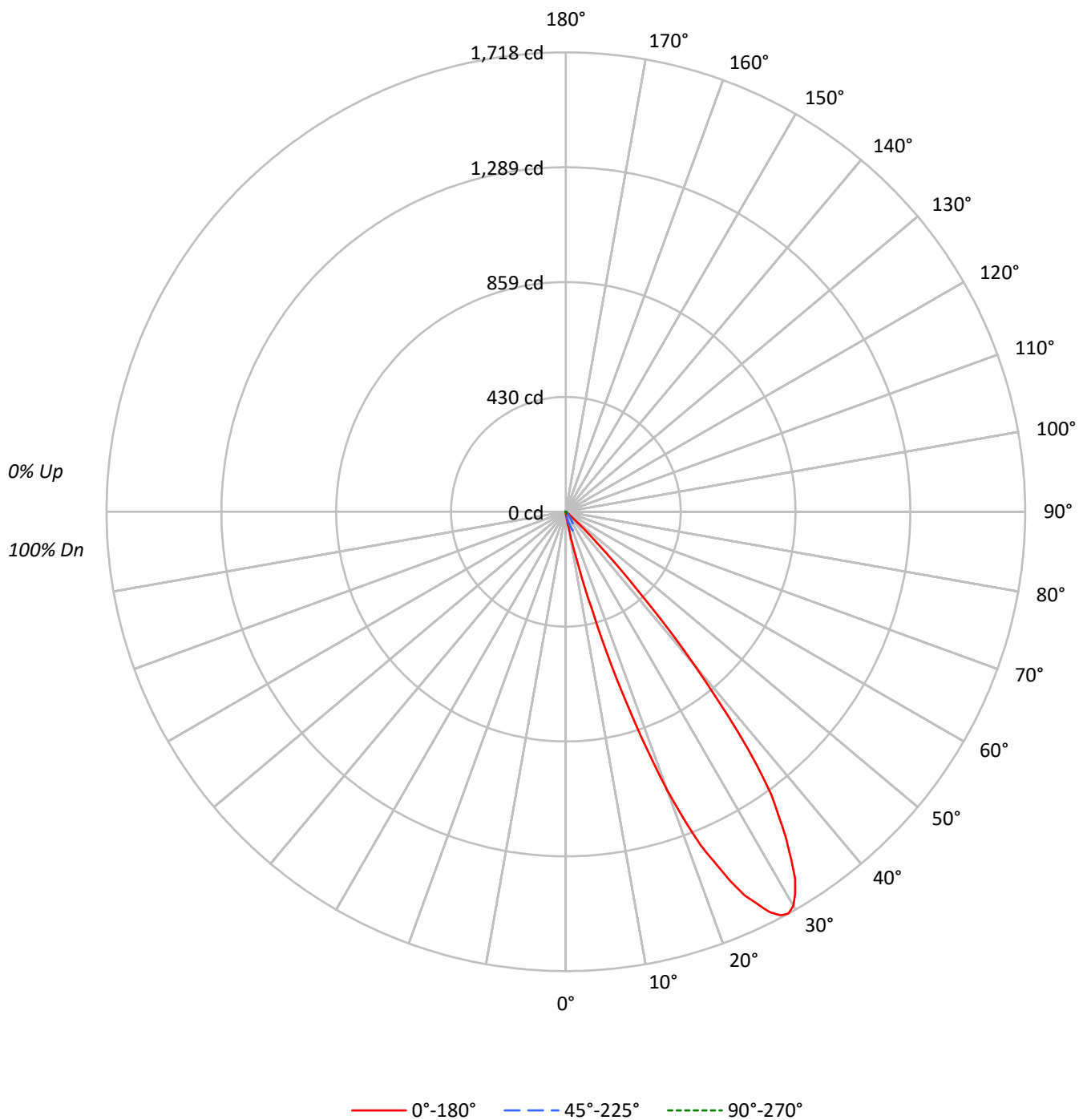
Lumens per Lamp: N/A
Luminaire Lumens: 241.0 lumens
Efficiency: N/A
Efficacy: 66.9 lumens/watt
Spacing Criteria (0/90/45): 2.3 / 0.54 / 1.19
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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
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°	1820	1820	1820	1820	1820
5°	4182	3126	1739	1057	924
10°	13204	5455	1403	579	445
15°	85472	10080	1044	204	45
20°	257972	17245	723	0	0
25°	383103	17396	411	0	0
30°	430826	13243	177	0	0
35°	371717	7897	107	0	0
40°	214058	2691	0	0	0
45°	52222	1085	62	0	62
50°	6277	307	68	68	239
55°	841	0	153	153	344
60°	88	0	307	307	482
65°	104	104	467	467	675
70°	128	128	577	577	705
75°	0	169	763	593	763
80°	0	253	884	505	884
85°	0	503	1761	503	503

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°

Vertical Angle: 45°

Luminance: 52533 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.1	0.5
10°-20°	22.3	9.3
20°-30°	97.3	40.4
30°-40°	98.0	40.7
40°-50°	19.7	8.2
50°-60°	1.0	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°	120.8	50.1
0°-40°	218.8	90.8
0°-60°	239.5	99.4
0°-90°	241.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	241.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	8	8	8	8	8	
5°	19	14	8	5	4	3
15°	376	44	5	1	0	147
25°	1583	72	2	0	0	714
35°	1389	30	0	0	0	826
45°	168	4	0	0	0	183
55°	2	0	0	0	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°	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3
2.5°	12.5	12.5	12.2	12.2	12.0	12.2	11.8	12.0	12.0	11.8	10.7
5°	19.0	19.5	19.2	19.2	19.0	19.2	18.8	18.4	17.9	17.9	14.2
7.5°	31.3	31.0	30.6	30.8	30.2	29.7	29.3	29.1	27.8	27.1	18.6
10°	59.3	60.6	59.5	59.3	55.3	55.1	52.5	48.8	45.5	43.7	24.5
12.5°	163.1	170.1	159.2	153.9	150.9	139.1	134.0	121.1	108.7	99.3	31.0
15°	376.5	393.8	371.7	373.2	354.9	321.2	291.7	266.3	236.4	206.2	44.4
17.5°	737.7	723.7	711.7	691.4	654.0	604.6	540.9	476.4	420.7	362.3	61.9
20°	1105.5	1093.0	1065.7	1021.3	973.6	900.4	824.7	727.9	634.1	546.2	73.9
21°	1232.1	1227.9	1183.1	1155.8	1082.3	1012.3	925.1	821.4	715.8	611.8	75.9
22°	1345.1	1320.2	1296.1	1255.7	1182.6	1106.6	1009.5	900.4	785.8	670.1	76.1
23°	1423.4	1412.0	1389.3	1343.6	1271.0	1181.6	1079.2	965.1	844.4	711.5	75.4
24°	1510.0	1495.5	1462.3	1408.9	1335.7	1247.4	1130.6	1017.4	886.2	746.2	73.7
25°	1583.4	1560.9	1521.5	1464.0	1384.0	1292.8	1175.4	1051.0	915.2	769.6	71.9
26°	1631.1	1618.8	1568.3	1505.8	1420.1	1326.1	1206.3	1076.8	934.0	780.3	69.1
27°	1680.7	1658.2	1608.6	1536.6	1443.7	1347.7	1223.8	1089.3	940.6	780.8	65.6
28°	1709.1	1684.7	1628.5	1552.8	1459.0	1359.7	1233.8	1093.2	939.3	774.0	61.4
29°	1718.1	1687.3	1632.4	1555.4	1462.7	1360.6	1232.3	1087.5	927.7	757.4	56.6
30°	1701.5	1670.0	1618.0	1543.0	1450.9	1349.7	1218.1	1068.7	907.2	733.6	52.3
31°	1665.2	1638.5	1588.2	1513.0	1424.7	1324.1	1185.9	1037.9	872.2	701.6	47.2
32°	1617.3	1591.1	1541.7	1473.7	1383.8	1282.3	1142.0	989.8	831.1	654.0	42.2
33°	1545.4	1530.3	1485.9	1421.0	1331.1	1222.7	1082.9	932.3	772.5	601.1	37.8
34°	1472.6	1453.5	1422.5	1351.4	1254.8	1146.6	1006.0	852.9	701.0	541.8	33.7
35°	1388.6	1377.2	1328.5	1271.6	1174.6	1063.9	924.2	775.7	617.7	475.8	29.5
36°	1307.3	1289.8	1234.2	1174.1	1079.9	960.3	822.3	682.8	545.7	413.9	25.1
37°	1189.2	1162.5	1123.0	1059.5	949.4	847.5	721.5	592.1	457.2	347.0	20.3
38°	1050.4	1037.9	983.0	919.2	828.0	731.4	606.7	497.0	377.2	289.7	15.5
39°	886.6	886.4	833.9	787.8	698.6	611.5	499.2	403.4	311.3	233.3	12.0
40°	747.8	722.0	689.6	631.7	563.2	489.3	390.9	315.7	241.6	188.0	9.4
42.5°	392.0	389.8	370.8	327.3	289.0	245.5	195.2	162.7	127.3	103.6	5.9
45°	168.4	169.4	156.3	149.8	134.9	116.8	98.6	82.2	70.4	57.1	3.5
47.5°	42.6	40.9	40.4	42.0	42.0	40.7	36.5	34.3	31.7	29.1	2.0
50°	18.4	17.9	17.5	17.5	16.4	15.7	14.6	13.3	12.2	10.9	0.9
52.5°	6.8	7.0	7.2	7.0	7.0	6.8	6.8	6.6	5.9	5.2	0.4
55°	2.2	2.2	2.2	2.4	2.4	2.6	2.6	2.6	2.6	2.4	0.0
57.5°	0.4	0.4	0.7	0.7	0.7	0.7	0.7	0.7	0.9	0.9	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°	8.3	8.3	8.3	8.3	8.3	8.3
2.5°	9.6	8.5	7.2	6.1	5.9	5.7
5°	10.7	7.9	5.9	4.8	4.4	4.2
7.5°	11.6	7.2	4.8	3.5	3.1	2.8
10°	12.0	6.3	3.9	2.6	2.0	2.0
12.5°	12.2	5.5	2.8	1.7	1.1	1.1
15°	12.0	4.6	2.2	0.9	0.2	0.2
17.5°	10.9	3.7	1.3	0.2	0.0	0.0
20°	9.4	3.1	0.9	0.0	0.0	0.0
21°	9.0	2.6	0.7	0.0	0.0	0.0
22°	8.3	2.4	0.4	0.0	0.0	0.0
23°	7.7	2.2	0.4	0.0	0.0	0.0
24°	7.0	2.0	0.2	0.0	0.0	0.0
25°	6.6	1.7	0.2	0.0	0.0	0.0
26°	6.1	1.5	0.2	0.0	0.0	0.0
27°	5.5	1.3	0.0	0.0	0.0	0.0
28°	5.0	1.1	0.0	0.0	0.0	0.0
29°	4.4	0.9	0.0	0.0	0.0	0.0
30°	3.7	0.7	0.0	0.0	0.0	0.0
31°	3.1	0.7	0.0	0.0	0.0	0.0
32°	2.6	0.4	0.0	0.0	0.0	0.0
33°	2.2	0.4	0.0	0.0	0.0	0.0
34°	2.0	0.4	0.0	0.0	0.0	0.0
35°	1.7	0.4	0.0	0.0	0.0	0.0
36°	1.3	0.2	0.0	0.0	0.0	0.0
37°	1.1	0.2	0.0	0.0	0.0	0.0
38°	0.9	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	0.4
50°	0.0	0.2	0.2	0.2	0.4	0.7
52.5°	0.0	0.4	0.2	0.2	0.7	0.7
55°	0.2	0.4	0.2	0.4	0.9	0.9
57.5°	0.2	0.4	0.4	0.7	0.9	1.1
60°	0.4	0.7	0.7	0.7	1.1	1.1
62.5°	0.4	0.7	0.9	0.9	1.1	1.3
65°	0.4	0.9	0.9	0.9	1.1	1.3
67.5°	0.7	0.9	0.9	0.9	1.1	1.3
70°	0.7	0.9	0.9	0.9	1.1	1.1
72.5°	0.7	0.9	0.7	0.9	0.9	1.1
75°	0.7	0.9	0.7	0.7	0.9	0.9
77.5°	0.4	0.7	0.7	0.4	0.7	0.7
80°	0.4	0.7	0.4	0.4	0.7	0.7



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.4	0.7	0.4	0.2	0.4	0.4
85°	0.4	0.7	0.4	0.2	0.2	0.2
87.5°	0.4	0.7	0.4	0.2	0.0	0.2
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)