

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: P1334501

Luminaire Tested: P3A02R209835DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1334501
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: P3A02R209835DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R20 optic, 3500K CCT AND, 98CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

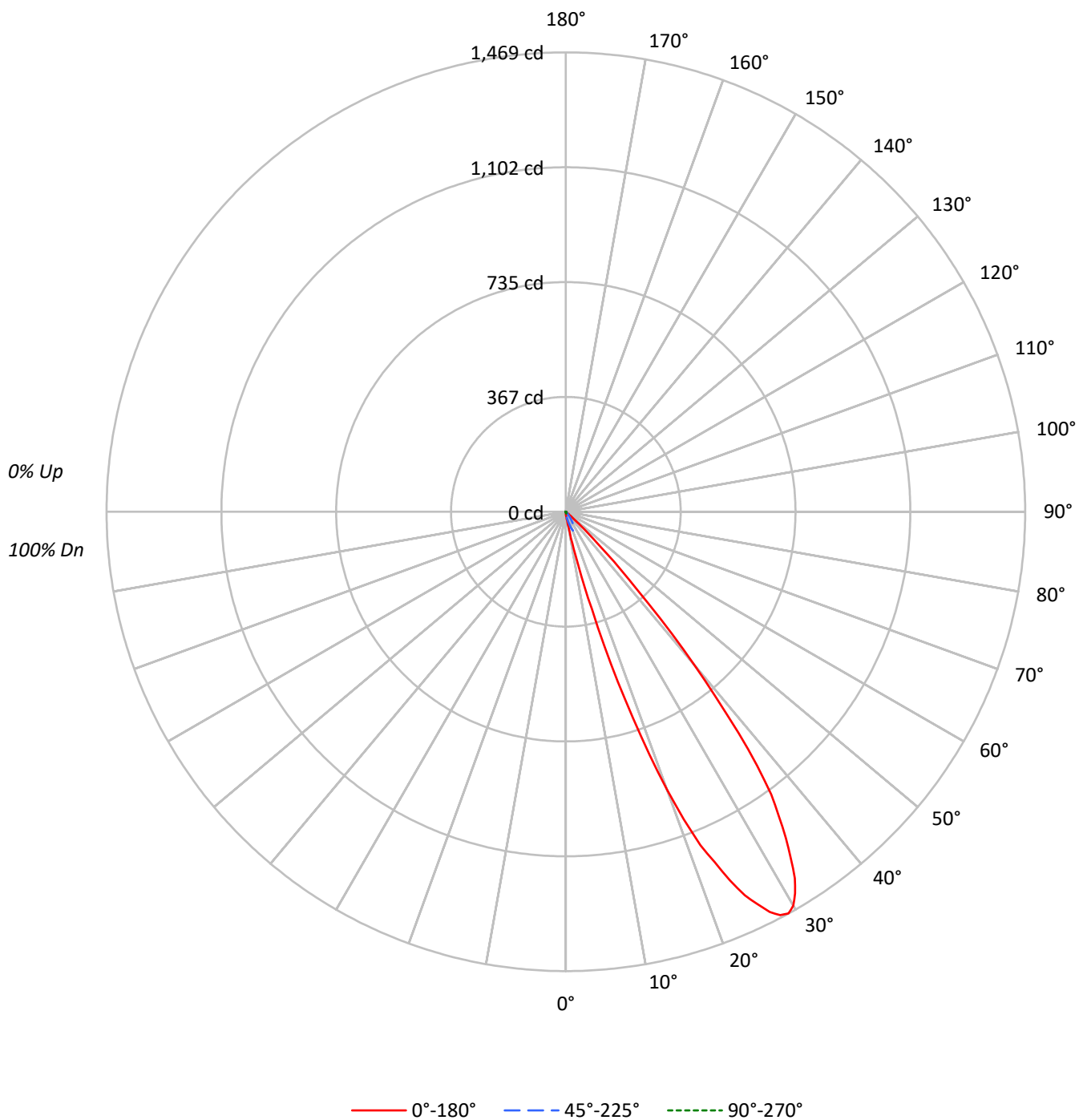
Lumens per Lamp: N/A
Luminaire Lumens: 206.0 lumens
Efficiency: N/A
Efficacy: 57.2 lumens/watt
Spacing Criteria (0/90/45): 2.3 / 0.53 / 1.19
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	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	75	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°	1557	1557	1557	1557	1557
5°	3588	2663	1475	902	792
10°	11267	4654	1202	490	379
15°	73054	8604	885	159	45
20°	220496	14748	607	0	0
25°	327479	14880	363	0	0
30°	368259	11318	152	0	0
35°	317724	6746	107	0	0
40°	182971	2290	0	0	0
45°	44625	930	62	0	62
50°	5356	239	68	68	205
55°	726	0	153	153	268
60°	88	0	263	263	395
65°	104	104	363	363	571
70°	128	128	449	449	577
75°	0	169	593	508	593
80°	0	253	758	505	758
85°	0	503	1510	503	503

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°

Vertical Angle: 45°

Luminance: 44904 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.0	0.5
10°-20°	19.1	9.3
20°-30°	83.2	40.4
30°-40°	83.8	40.7
40°-50°	16.8	8.2
50°-60°	0.9	0.4
60°-70°	0.5	0.3
70°-80°	0.5	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°	103.3	50.1
0°-40°	187.1	90.8
0°-60°	204.7	99.4
0°-90°	206.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	206.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	7	7	7	7	7	
5°	16	12	7	4	4	3
15°	322	38	4	1	0	126
25°	1354	62	2	0	0	610
35°	1187	25	0	0	0	706
45°	144	3	0	0	0	157
55°	2	0	0	0	1	3
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°	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1
2.5°	10.7	10.7	10.5	10.5	10.3	10.5	10.1	10.3	10.3	10.1	9.2
5°	16.3	16.6	16.4	16.4	16.3	16.4	16.1	15.7	15.3	15.3	12.1
7.5°	26.7	26.5	26.2	26.4	25.8	25.4	25.0	24.9	23.7	23.2	15.9
10°	50.6	51.8	50.8	50.6	47.3	47.1	44.9	41.7	38.9	37.4	20.9
12.5°	139.4	145.4	136.1	131.6	129.0	118.9	114.6	103.5	92.9	84.8	26.5
15°	321.8	336.6	317.7	319.0	303.3	274.5	249.3	227.6	202.0	176.2	37.9
17.5°	630.6	618.6	608.3	590.9	559.0	516.8	462.4	407.2	359.6	309.7	52.9
20°	944.9	934.3	910.9	873.0	832.2	769.6	705.0	622.2	542.0	466.9	63.2
21°	1053.1	1049.6	1011.3	987.9	925.1	865.3	790.7	702.1	611.9	522.9	64.9
22°	1149.8	1128.4	1107.9	1073.3	1010.9	945.9	862.9	769.6	671.7	572.8	65.0
23°	1216.7	1206.9	1187.5	1148.4	1086.4	1010.0	922.5	824.9	721.8	608.1	64.5
24°	1290.7	1278.3	1249.9	1204.3	1141.7	1066.2	966.4	869.6	757.5	637.9	63.0
25°	1353.5	1334.2	1300.6	1251.4	1183.0	1105.1	1004.7	898.4	782.3	657.9	61.5
26°	1394.2	1383.7	1340.6	1287.1	1213.9	1133.5	1031.1	920.4	798.4	667.0	59.1
27°	1436.6	1417.4	1375.0	1313.5	1234.0	1152.0	1046.0	931.1	804.0	667.4	56.1
28°	1460.9	1440.0	1392.0	1327.3	1247.1	1162.3	1054.6	934.5	802.9	661.6	52.5
29°	1468.6	1442.2	1395.3	1329.5	1250.3	1163.0	1053.3	929.6	793.0	647.4	48.4
30°	1454.4	1427.5	1383.0	1318.9	1240.2	1153.7	1041.2	913.5	775.4	627.0	44.7
31°	1423.4	1400.6	1357.6	1293.3	1217.8	1131.8	1013.7	887.2	745.5	599.7	40.4
32°	1382.4	1360.0	1317.8	1259.6	1182.8	1096.1	976.1	846.1	710.4	559.0	36.1
33°	1320.9	1308.0	1270.1	1214.6	1137.8	1045.1	925.7	796.9	660.3	513.8	32.3
34°	1258.7	1242.5	1215.9	1155.2	1072.6	980.1	859.9	729.1	599.2	463.1	28.8
35°	1186.9	1177.2	1135.5	1087.0	1004.0	909.4	790.0	663.1	528.0	406.7	25.2
36°	1117.4	1102.5	1055.0	1003.6	923.1	820.8	702.9	583.7	466.5	353.8	21.5
37°	1016.5	993.7	959.9	905.7	811.5	724.4	616.7	506.1	390.8	296.6	17.4
38°	897.8	887.2	840.3	785.7	707.8	625.1	518.6	424.8	322.4	247.6	13.3
39°	757.8	757.7	712.8	673.4	597.1	522.7	426.7	344.8	266.1	199.4	10.3
40°	639.2	617.1	589.5	539.9	481.4	418.3	334.2	269.9	206.5	160.7	8.0
42.5°	335.1	333.2	317.0	279.8	247.1	209.9	166.9	139.0	108.8	88.6	5.0
45°	143.9	144.8	133.6	128.0	115.3	99.8	84.3	70.3	60.2	48.8	3.0
47.5°	36.4	34.9	34.6	35.9	35.9	34.8	31.2	29.3	27.1	24.9	1.7
50°	15.7	15.3	15.0	15.0	14.0	13.5	12.5	11.4	10.5	9.3	0.7
52.5°	5.8	6.0	6.2	6.0	6.0	5.8	5.8	5.6	5.0	4.5	0.4
55°	1.9	1.9	1.9	2.1	2.1	2.2	2.2	2.2	2.2	2.1	0.0
57.5°	0.4	0.4	0.6	0.6	0.6	0.6	0.6	0.6	0.7	0.7	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°	7.1	7.1	7.1	7.1	7.1	7.1
2.5°	8.2	7.3	6.2	5.2	5.0	4.9
5°	9.2	6.7	5.0	4.1	3.7	3.6
7.5°	9.9	6.2	4.1	3.0	2.6	2.4
10°	10.3	5.4	3.4	2.2	1.7	1.7
12.5°	10.5	4.7	2.4	1.5	0.9	0.9
15°	10.3	3.9	1.9	0.7	0.2	0.2
17.5°	9.3	3.2	1.1	0.2	0.0	0.0
20°	8.0	2.6	0.7	0.0	0.0	0.0
21°	7.7	2.2	0.6	0.0	0.0	0.0
22°	7.1	2.1	0.4	0.0	0.0	0.0
23°	6.5	1.9	0.4	0.0	0.0	0.0
24°	6.0	1.7	0.2	0.0	0.0	0.0
25°	5.6	1.5	0.2	0.0	0.0	0.0
26°	5.2	1.3	0.2	0.0	0.0	0.0
27°	4.7	1.1	0.0	0.0	0.0	0.0
28°	4.3	0.9	0.0	0.0	0.0	0.0
29°	3.7	0.7	0.0	0.0	0.0	0.0
30°	3.2	0.6	0.0	0.0	0.0	0.0
31°	2.6	0.6	0.0	0.0	0.0	0.0
32°	2.2	0.4	0.0	0.0	0.0	0.0
33°	1.9	0.4	0.0	0.0	0.0	0.0
34°	1.7	0.4	0.0	0.0	0.0	0.0
35°	1.5	0.4	0.0	0.0	0.0	0.0
36°	1.1	0.2	0.0	0.0	0.0	0.0
37°	0.9	0.2	0.0	0.0	0.0	0.0
38°	0.7	0.2	0.0	0.0	0.0	0.0
39°	0.6	0.0	0.0	0.0	0.0	0.0
40°	0.6	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	0.6
52.5°	0.0	0.4	0.2	0.2	0.6	0.6
55°	0.2	0.4	0.2	0.4	0.7	0.7
57.5°	0.2	0.4	0.4	0.6	0.7	0.9
60°	0.4	0.6	0.6	0.6	0.9	0.9
62.5°	0.4	0.6	0.7	0.7	0.9	1.1
65°	0.4	0.7	0.7	0.7	0.9	1.1
67.5°	0.6	0.7	0.7	0.7	0.9	1.1
70°	0.6	0.7	0.7	0.7	0.9	0.9
72.5°	0.6	0.7	0.6	0.7	0.7	0.9
75°	0.6	0.7	0.6	0.6	0.7	0.7
77.5°	0.4	0.6	0.6	0.4	0.6	0.6
80°	0.4	0.6	0.4	0.4	0.6	0.6



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.4	0.6	0.4	0.2	0.4	0.4
85°	0.4	0.6	0.4	0.2	0.2	0.2
87.5°	0.4	0.6	0.4	0.2	0.0	0.2
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)