

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: P1334145

Luminaire Tested: P3A02R159827DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1334145
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: P3A02R159827DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R15 optic, 2700K CCT AND, 98CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

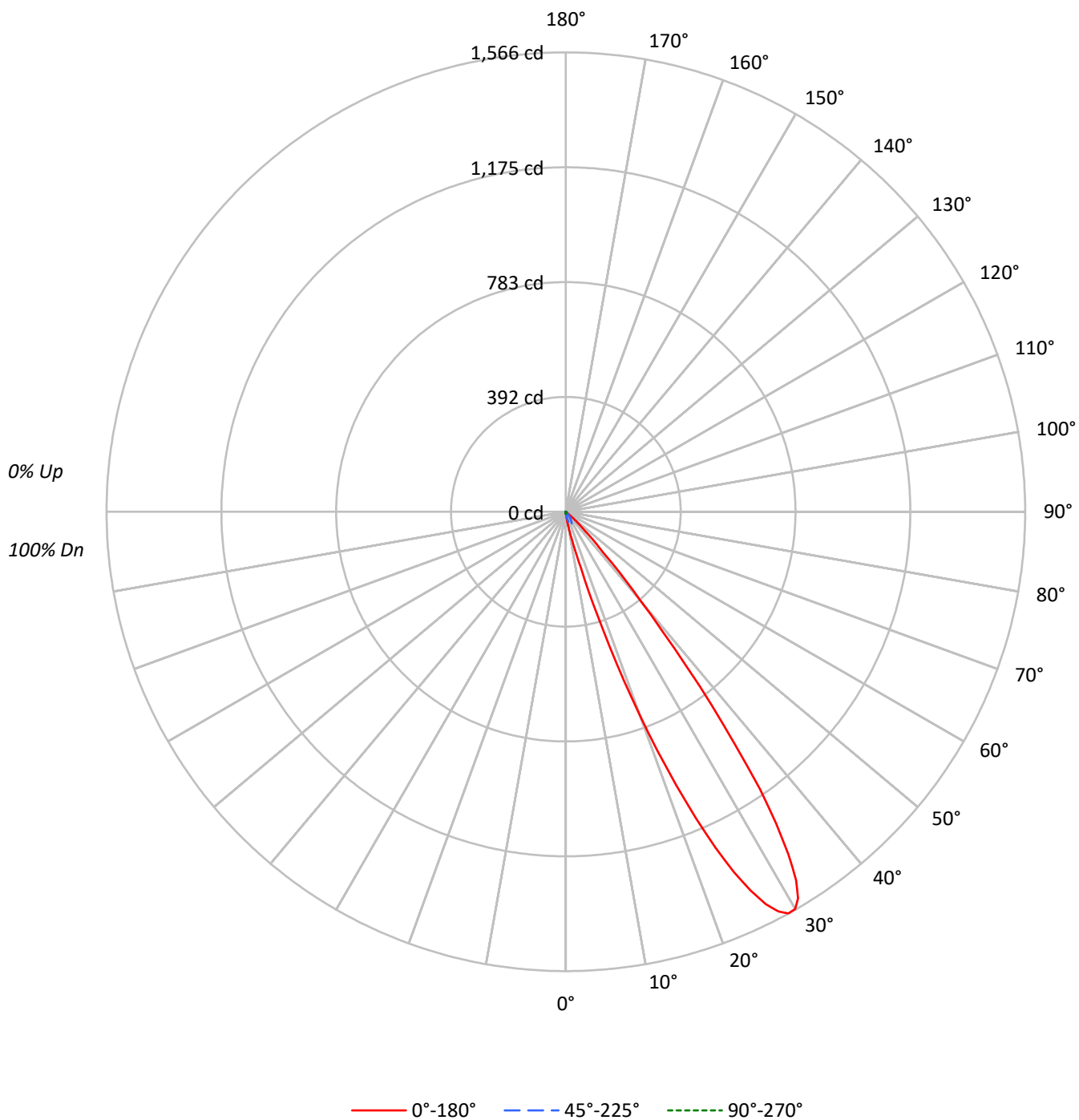
Lumens per Lamp: N/A
Luminaire Lumens: 171.0 lumens
Efficiency: N/A
Efficacy: 47.5 lumens/watt
Spacing Criteria (0/90/45): 2.35 / 0.48 / 1.26
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	98	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	47	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°	1250	1250	1250	1250	1250
5°	2663	1981	1167	616	506
10°	11846	3741	935	267	178
15°	44813	8649	636	114	68
20°	172378	12181	397	47	47
25°	327793	11420	194	0	0
30°	395985	9217	76	0	0
35°	308837	6291	54	0	0
40°	112697	3092	57	0	57
45°	28933	930	62	0	93
50°	4878	102	68	68	171
55°	650	0	115	191	306
60°	88	88	219	307	439
65°	104	104	363	415	519
70°	128	128	449	449	513
75°	169	169	593	424	593
80°	0	253	631	379	631
85°	0	503	1258	503	503

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 28933 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.8	0.5
10°-20°	13.1	7.7
20°-30°	72.7	42.5
30°-40°	70.2	41.1
40°-50°	12.2	7.1
50°-60°	0.9	0.5
60°-70°	0.5	0.3
70°-80°	0.4	0.3
80°-90°	0.2	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°	86.6	50.6
0°-40°	156.8	91.7
0°-60°	169.9	99.3
0°-90°	171.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	171.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	6	6	6	6	6	
5°	12	9	5	3	2	2
15°	197	38	3	0	0	88
25°	1355	47	1	0	0	606
35°	1154	24	0	0	0	664
45°	93	3	0	0	0	100
55°	2	0	0	0	1	3
65°	0	0	1	1	1	0
75°	0	0	1	0	1	0
85°	0	0	0	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°	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
2.5°	8.3	8.0	8.2	8.2	8.2	8.2	8.2	7.8	7.8	8.0	7.2
5°	12.1	12.1	12.0	12.1	12.1	12.0	11.6	11.5	11.5	11.1	9.0
7.5°	24.3	24.0	24.0	23.6	22.0	21.5	21.1	20.3	18.8	18.5	11.6
10°	53.2	53.4	52.2	50.7	50.6	48.1	47.2	45.7	42.9	40.1	16.8
12.5°	96.6	94.5	91.7	91.8	87.0	85.3	81.5	77.3	73.0	68.5	27.6
15°	197.4	191.3	195.0	186.0	175.8	164.3	152.7	138.1	125.6	112.3	38.1
17.5°	415.9	421.8	411.7	373.3	349.6	321.9	282.8	245.0	212.7	186.8	46.6
20°	738.7	747.5	713.1	679.7	622.3	559.7	494.5	420.7	350.0	288.8	52.2
21°	873.6	868.3	854.2	800.6	734.4	661.9	582.0	500.5	414.9	335.3	52.7
22°	1004.0	1006.5	973.6	917.5	848.7	768.3	670.8	570.2	477.9	373.3	51.9
23°	1133.9	1141.9	1098.3	1045.8	959.1	868.5	755.7	647.1	533.0	416.7	50.2
24°	1254.2	1248.7	1219.3	1153.1	1060.4	954.3	837.2	705.4	578.2	453.8	48.9
25°	1354.8	1354.2	1307.9	1243.6	1137.6	1020.0	890.9	753.2	617.0	478.9	47.2
26°	1437.2	1423.7	1387.3	1308.8	1204.1	1080.0	935.0	788.0	638.7	491.5	45.6
27°	1500.7	1491.1	1442.2	1360.5	1251.2	1114.0	963.3	805.3	648.7	495.7	43.4
28°	1543.5	1533.0	1480.9	1396.8	1277.2	1135.3	978.2	812.6	648.7	491.7	41.4
29°	1565.6	1551.3	1499.4	1409.2	1283.1	1137.8	974.6	805.4	638.6	479.4	39.1
30°	1563.9	1546.1	1491.7	1397.9	1265.3	1117.3	954.1	779.6	615.6	461.1	36.4
31°	1537.0	1517.0	1456.3	1359.7	1228.6	1078.7	915.5	745.0	584.2	437.3	33.8
32°	1482.3	1457.0	1397.8	1301.4	1172.0	1021.0	859.5	691.6	537.1	402.5	30.9
33°	1393.1	1367.6	1304.1	1213.8	1095.5	947.8	785.1	634.3	483.6	361.1	28.6
34°	1281.5	1258.2	1203.5	1112.5	999.0	855.2	699.6	554.9	428.0	320.0	26.1
35°	1153.7	1116.6	1067.1	995.0	884.4	739.7	607.3	481.1	370.8	277.0	23.5
36°	980.9	987.6	935.0	846.8	755.2	641.7	514.7	401.0	310.1	236.0	21.1
37°	827.7	817.2	783.8	715.6	635.8	523.1	431.3	340.0	260.8	199.6	18.6
38°	667.7	670.0	637.2	584.9	505.7	430.2	347.2	279.3	218.2	169.8	16.3
39°	522.6	520.8	512.0	463.4	391.7	342.2	281.3	231.5	181.8	143.2	13.8
40°	393.7	396.7	376.1	346.8	305.1	264.3	224.1	184.6	150.4	120.8	10.8
42.5°	191.5	196.1	182.5	175.0	156.5	140.6	118.6	96.8	82.3	71.2	4.8
45°	93.3	90.7	89.5	85.8	81.5	72.9	64.5	55.4	48.4	41.8	3.0
47.5°	47.7	46.4	46.4	44.9	43.4	40.6	36.4	33.4	30.1	25.9	1.2
50°	14.3	14.1	14.0	14.1	13.6	14.1	14.5	14.6	13.3	13.1	0.3
52.5°	5.7	5.8	5.7	6.2	6.2	6.0	6.2	6.0	5.8	5.2	0.0
55°	1.7	1.7	1.7	1.7	1.7	1.7	1.8	2.0	1.8	2.0	0.0
57.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	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°	5.7	5.7	5.7	5.7	5.7	5.7
2.5°	6.7	5.8	4.8	4.0	3.7	3.5
5°	7.2	5.3	3.7	2.8	2.5	2.3
7.5°	7.7	4.8	2.8	2.0	1.5	1.3
10°	8.0	4.2	2.2	1.2	0.8	0.8
12.5°	8.0	3.3	1.5	0.7	0.5	0.5
15°	7.8	2.8	1.0	0.5	0.3	0.3
17.5°	7.7	2.2	0.7	0.3	0.2	0.3
20°	7.2	1.7	0.3	0.2	0.2	0.2
21°	7.0	1.5	0.3	0.2	0.2	0.2
22°	6.7	1.3	0.2	0.0	0.2	0.2
23°	6.3	1.0	0.2	0.0	0.0	0.0
24°	5.8	0.8	0.2	0.0	0.0	0.0
25°	5.5	0.8	0.2	0.0	0.0	0.0
26°	5.2	0.5	0.0	0.0	0.0	0.0
27°	4.7	0.3	0.0	0.0	0.0	0.0
28°	4.3	0.3	0.0	0.0	0.0	0.0
29°	3.8	0.3	0.0	0.0	0.0	0.0
30°	3.3	0.3	0.0	0.0	0.0	0.0
31°	2.7	0.2	0.0	0.0	0.0	0.0
32°	2.2	0.2	0.0	0.0	0.0	0.0
33°	1.5	0.2	0.0	0.0	0.0	0.0
34°	1.0	0.2	0.0	0.0	0.0	0.0
35°	0.8	0.2	0.0	0.0	0.0	0.0
36°	0.5	0.2	0.0	0.0	0.0	0.2
37°	0.5	0.2	0.0	0.0	0.0	0.2
38°	0.3	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	0.3
45°	0.0	0.2	0.0	0.0	0.2	0.3
47.5°	0.0	0.2	0.0	0.0	0.3	0.3
50°	0.0	0.2	0.2	0.2	0.3	0.5
52.5°	0.0	0.3	0.2	0.3	0.5	0.7
55°	0.2	0.3	0.3	0.5	0.7	0.8
57.5°	0.2	0.5	0.5	0.7	0.8	0.8
60°	0.3	0.5	0.7	0.7	1.0	1.0
62.5°	0.3	0.7	0.7	0.7	1.0	1.0
65°	0.3	0.7	0.7	0.8	1.0	1.0
67.5°	0.3	0.7	0.7	0.7	0.8	1.0
70°	0.3	0.7	0.5	0.7	0.8	0.8
72.5°	0.3	0.7	0.5	0.5	0.7	0.8
75°	0.3	0.7	0.5	0.5	0.7	0.7
77.5°	0.3	0.5	0.5	0.3	0.5	0.5
80°	0.3	0.5	0.3	0.3	0.5	0.5



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.3	0.5	0.3	0.2	0.3	0.3
85°	0.3	0.5	0.3	0.2	0.2	0.2
87.5°	0.3	0.5	0.2	0.0	0.0	0.2
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)