

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: P1341510

Luminaire Tested: P3A09R309827DE010 E3A451MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1341510
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-76)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A09R309827DE010 E3A451MW
Description: 3in Adjustable LED luminaire with, R30 optic, 2700K CCT AND, 98CRI , E3A451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

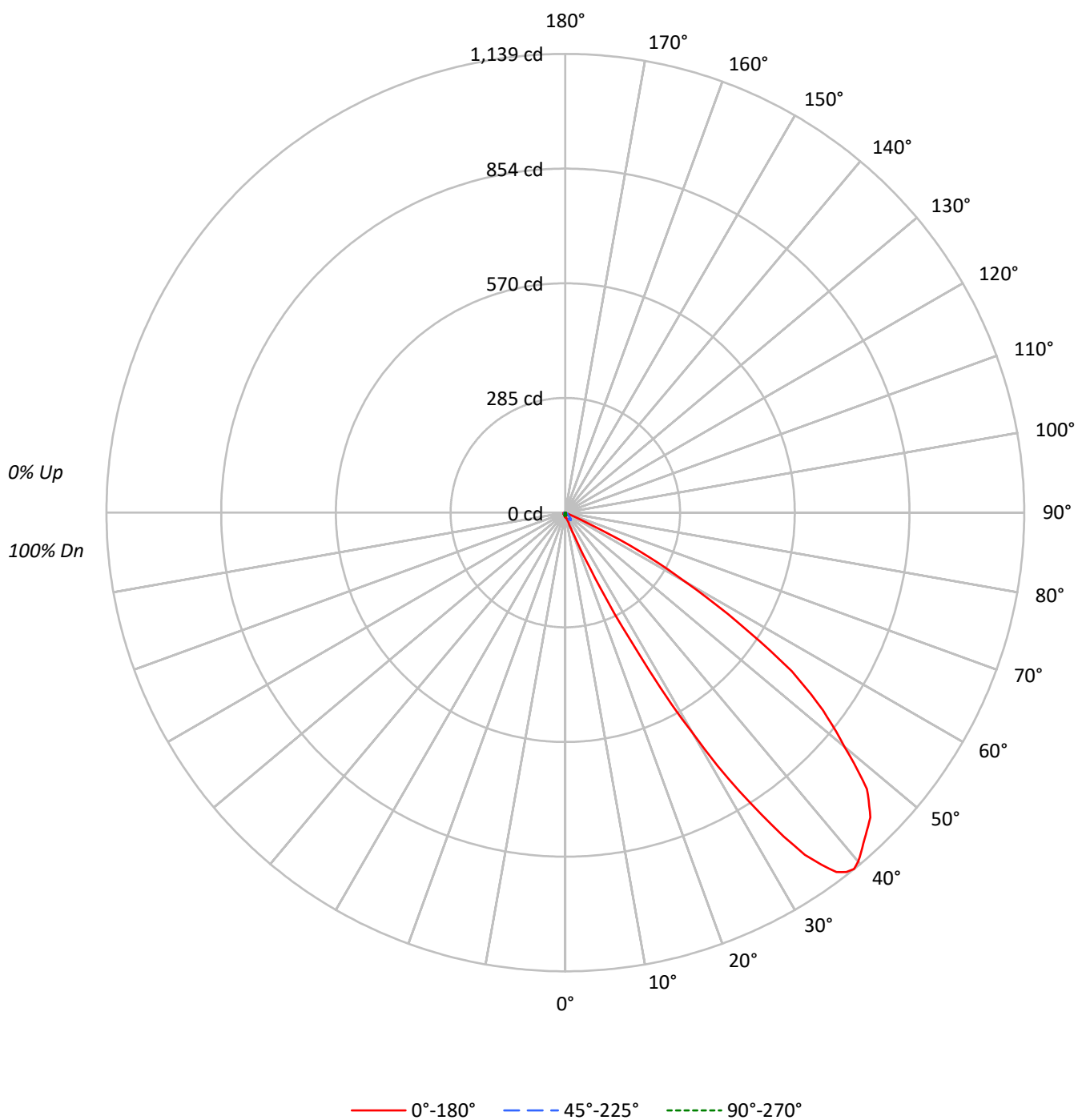
Lumens per Lamp: N/A
Luminaire Lumens: 295.9 lumens
Efficiency: N/A
Efficacy: 26.9 lumens/watt
Spacing Criteria (0/90/45): 4.07 / 0.66 / 1.44
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 11
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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	110	106	102	99	108	104	100	97	100	97	94		96	93	91		92
2	100	93	86	81	98	91	85	80	87	83	78		84	80	77		81
3	91	81	73	67	89	79	72	66	76	70	65		74	68	64		71
4	83	71	62	55	80	69	61	55	67	60	54		64	58	53		62
5	75	62	52	46	73	60	52	45	58	51	45		56	50	44		54
6	68	54	45	38	66	53	44	38	51	43	37		49	42	37		48
7	62	48	38	32	60	47	38	32	45	37	31		44	36	31		42
8	56	42	33	27	55	41	33	27	40	32	26		39	32	26		37
9	52	37	29	23	50	37	28	23	36	28	22		34	27	22		33
10	48	33	25	19	46	33	25	19	32	24	19		31	24	19		30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	2522	2522	2522	2522	2522
5°	2685	2641	2465	2245	2201
10°	2939	2605	2160	1937	1893
15°	4291	2611	1816	1635	1703
20°	10828	2847	1400	1400	1563
25°	50253	3557	1089	1258	1452
30°	159974	4912	810	1190	1443
35°	277597	5996	669	1124	1472
40°	323749	5983	487	1145	1489
45°	332034	4249	527	1240	1613
50°	308766	2388	409	1262	1876
55°	262414	1223	459	1415	2103
60°	151567	307	526	1535	2281
65°	30924	0	623	1816	2594
70°	449	128	769	2052	3013
75°	424	169	847	2118	3558
80°	253	253	1263	2526	4041
85°	0	503	2516	2516	5032

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 332034 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.0	0.4
10°-20°	3.0	1.0
20°-30°	17.1	5.8
30°-40°	79.7	26.9
40°-50°	112.7	38.1
50°-60°	69.3	23.4
60°-70°	10.5	3.6
70°-80°	1.6	0.6
80°-90°	0.8	0.3
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°	21.1	7.1
0°-40°	100.8	34.1
0°-60°	282.9	95.6
0°-90°	295.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	295.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	12	12	12	12	12	
5°	12	12	11	10	10	1
15°	19	12	8	7	8	7
25°	208	15	4	5	6	128
35°	1037	22	2	4	6	622
45°	1071	14	2	4	5	812
55°	686	3	1	4	6	584
65°	60	0	1	4	5	108
75°	0	0	1	2	4	1
85°	0	0	1	1	2	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
0°	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5
2.5°	11.7	11.7	12.0	12.0	11.7	12.0	12.0	12.0	11.5	11.2	10.7
5°	12.2	12.2	12.2	12.5	12.2	12.2	12.0	11.7	11.2	10.5	10.2
7.5°	12.7	12.7	12.5	12.7	12.5	12.5	12.0	11.5	10.7	10.0	9.5
10°	13.2	13.2	13.0	13.0	12.7	12.7	11.7	11.0	9.7	9.0	8.7
12.5°	14.7	14.7	14.5	14.2	13.7	13.5	11.5	10.2	8.7	8.0	7.7
15°	18.9	18.7	18.2	17.5	16.2	16.0	11.5	9.5	8.0	7.2	7.2
17.5°	25.9	25.7	24.9	22.9	20.7	19.9	11.5	8.5	7.0	6.5	6.5
20°	46.4	44.4	40.6	35.7	30.4	27.7	12.2	7.5	6.0	5.7	6.0
21°	60.6	58.6	53.9	45.6	36.4	33.4	12.7	7.2	5.7	5.5	6.0
22°	82.5	80.3	70.6	59.3	46.1	40.9	13.0	6.7	5.2	5.2	5.7
23°	115.2	111.5	95.0	77.0	57.6	50.1	13.5	6.5	5.0	5.2	5.5
24°	150.8	147.6	128.9	102.0	73.6	62.8	14.0	6.2	4.7	4.7	5.2
25°	207.7	204.0	170.8	128.7	93.3	75.5	14.7	5.7	4.5	4.5	5.2
26°	281.3	264.0	219.9	165.8	114.9	94.7	15.5	5.5	4.2	4.5	5.0
27°	351.1	336.9	287.2	212.7	142.1	116.4	16.5	5.2	4.0	4.2	5.0
28°	442.8	422.9	360.3	269.0	179.0	140.9	17.5	5.0	3.7	4.2	4.7
29°	545.6	517.6	442.1	332.4	220.7	168.3	18.5	4.7	3.5	4.0	4.7
30°	631.8	605.6	530.1	407.4	268.5	204.5	19.4	4.5	3.2	4.0	4.7
31°	733.1	693.4	601.9	471.0	309.7	240.6	20.4	4.0	3.0	3.7	4.5
32°	815.1	787.4	690.2	542.8	363.8	280.5	21.2	3.7	3.0	3.7	4.5
33°	894.4	857.2	763.2	611.6	412.7	321.4	21.9	3.5	2.7	3.5	4.5
34°	970.2	936.0	832.3	667.2	458.8	360.3	22.4	3.0	2.7	3.5	4.2
35°	1037.0	997.4	893.1	721.6	506.2	395.7	22.4	2.7	2.5	3.2	4.2
36°	1080.4	1052.0	946.0	775.2	549.0	429.4	22.4	2.5	2.2	3.2	4.0
37°	1117.5	1084.4	988.4	816.3	580.7	456.3	22.4	2.2	2.2	3.2	4.0
38°	1132.7	1104.3	1017.5	852.7	610.4	483.7	22.2	2.0	2.0	3.0	4.0
39°	1138.7	1113.3	1039.5	878.9	632.3	502.2	21.7	1.7	2.0	3.0	4.0
40°	1131.0	1111.8	1050.7	895.9	649.8	515.6	20.9	1.5	1.7	3.0	4.0
42.5°	1099.1	1086.4	1048.2	912.8	664.7	525.6	18.2	1.0	1.7	2.7	4.0
45°	1070.7	1056.7	1023.0	895.1	645.3	505.9	13.7	0.5	1.7	2.7	4.0
47.5°	1015.6	1006.8	980.4	850.0	602.6	461.5	9.7	0.2	1.5	2.5	3.7
50°	905.1	896.9	862.0	738.0	518.4	390.2	7.0	0.2	1.2	2.5	3.7
52.5°	806.1	797.4	747.3	613.6	398.2	286.0	4.5	0.2	1.2	2.5	3.7
55°	686.4	671.2	605.4	465.8	282.3	191.7	3.2	0.2	1.2	2.2	3.7
57.5°	508.2	486.0	427.1	317.7	162.6	104.0	1.7	0.2	1.2	2.2	3.7
60°	345.6	332.4	267.3	167.6	69.3	43.9	0.7	0.2	1.2	2.2	3.5
62.5°	209.4	192.7	134.4	71.3	29.9	19.9	0.0	0.5	1.2	2.2	3.5
65°	59.6	52.9	35.2	16.2	8.5	6.5	0.0	0.5	1.2	2.2	3.5
67.5°	2.0	2.0	2.0	1.7	1.2	1.2	0.2	0.5	1.2	2.2	3.2
70°	0.7	0.7	0.7	0.5	0.5	0.2	0.2	0.5	1.2	2.0	3.2
72.5°	0.5	0.5	0.5	0.5	0.2	0.2	0.2	0.5	1.0	1.7	3.0
75°	0.5	0.5	0.5	0.2	0.2	0.2	0.2	0.7	1.0	1.7	2.5
77.5°	0.5	0.5	0.5	0.2	0.2	0.2	0.2	0.7	1.0	1.5	2.5
80°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.7	1.0	1.5	2.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
82.5°	0.2	0.2	0.2	0.0	0.0	0.0	0.2	0.7	1.0	1.0	1.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.7	1.0	0.7	1.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.7	0.7	0.7	0.5
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):

	157.5°	180°
0°	11.5	11.5
2.5°	10.7	10.7
5°	10.0	10.0
7.5°	9.2	9.2
10°	8.5	8.5
12.5°	8.0	8.0
15°	7.2	7.5
17.5°	6.7	7.0
20°	6.5	6.7
21°	6.5	6.7
22°	6.2	6.5
23°	6.2	6.5
24°	6.0	6.2
25°	5.7	6.0
26°	5.7	6.0
27°	5.7	6.0
28°	5.5	6.0
29°	5.5	5.7
30°	5.5	5.7
31°	5.2	5.7
32°	5.2	5.7
33°	5.2	5.5
34°	5.0	5.5
35°	5.0	5.5
36°	5.0	5.5
37°	5.0	5.2
38°	5.0	5.5
39°	5.0	5.2
40°	5.0	5.2
42.5°	5.0	5.2
45°	5.0	5.2
47.5°	5.0	5.5
50°	5.0	5.5
52.5°	5.0	5.5
55°	5.0	5.5
57.5°	5.0	5.2
60°	5.0	5.2
62.5°	4.7	5.2
65°	4.7	5.0
67.5°	4.7	5.0
70°	4.5	4.7
72.5°	4.2	4.5
75°	3.7	4.2
77.5°	3.5	3.7
80°	3.0	3.2

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CANDELA DISTRIBUTION (continued):

	157.5°	180°
82.5°	2.5	2.5
85°	1.7	2.0
87.5°	1.0	1.0
90°	0.0	0.0

(END OF REPORT)