

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: P1343049

Luminaire Tested: P3A09R459827DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1343049
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-69)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A09R459827DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R45 optic, 2700K CCT AND, 98CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

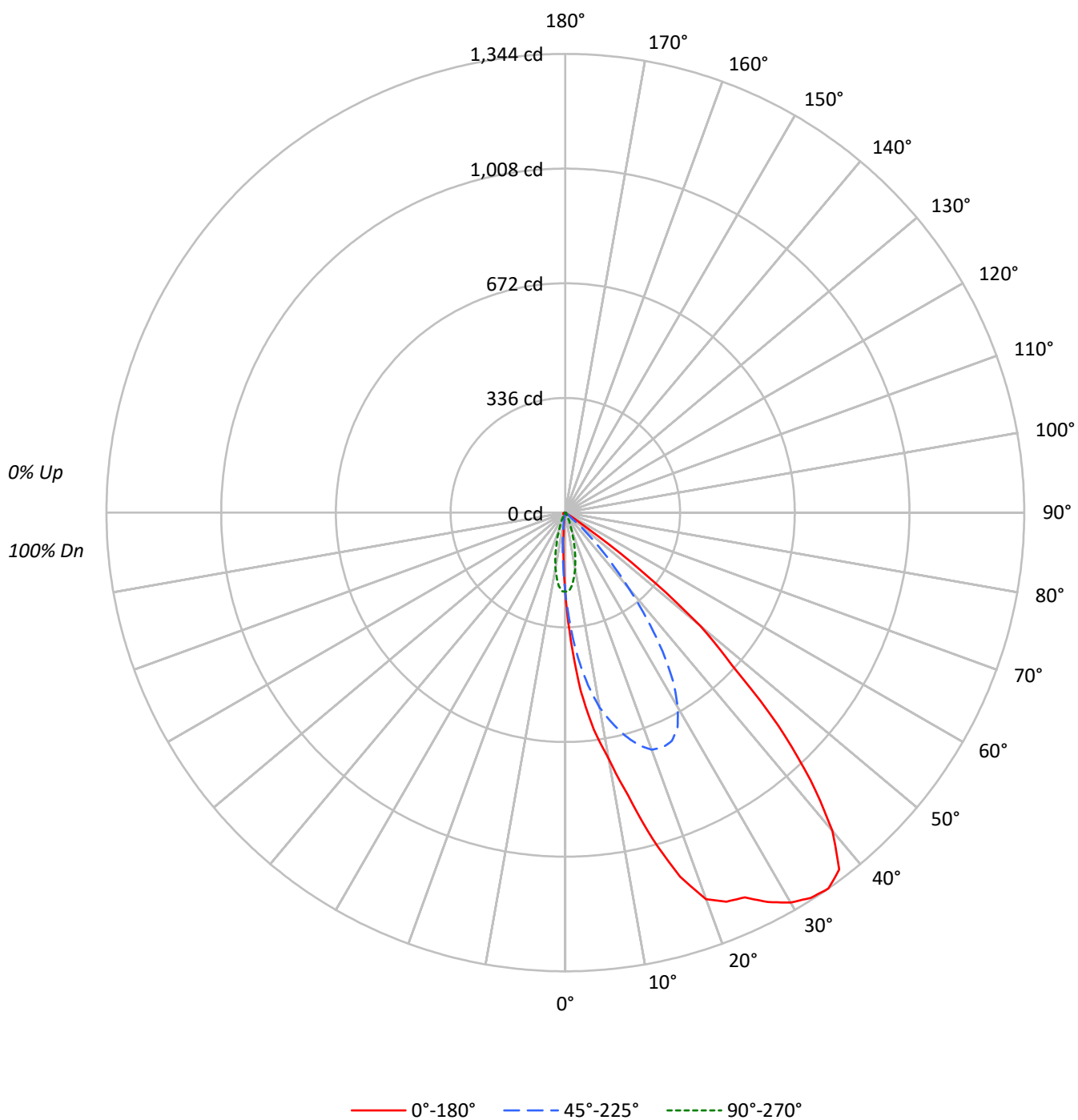
Lumens per Lamp: N/A
Luminaire Lumens: 609.0 lumens
Efficiency: N/A
Efficacy: 55.4 lumens/watt
Spacing Criteria (0/90/45): 2.13 / 0.47 / 1.22
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93
2	105	100	95	91	103	98	93	90	95	91	88	91	88	86	89	86	84
3	99	91	85	80	96	89	84	80	87	82	78	84	80	77	82	79	76
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	76	72	68
5	86	76	69	64	84	75	68	64	73	67	63	71	66	62	70	65	62
6	81	70	63	57	79	69	62	57	67	61	57	66	60	56	64	60	56
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	60	55	51
8	71	59	52	47	69	59	52	47	57	51	47	56	51	47	55	50	46
9	66	55	48	43	65	54	47	43	53	47	43	52	47	43	51	46	42
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	50807	50807	50807	50807	50807
5°	115804	93946	47524	19062	13009
10°	163190	129056	36739	4186	1937
15°	224882	153554	23473	1385	1158
20°	281191	172448	12251	957	957
25°	300913	178559	5662	750	871
30°	334001	166735	2583	785	912
35°	359805	132936	830	830	1098
40°	348138	82383	429	1031	1317
45°	273393	38857	465	1271	1582
50°	175653	4503	682	1569	2081
55°	26685	382	765	1950	2523
60°	439	439	877	2237	2675
65°	519	519	1038	2387	3165
70°	641	641	1282	2629	3590
75°	424	847	1694	3050	3897
80°	631	1263	1894	3157	4546
85°	0	1258	2516	3774	3774

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 273393 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25.4	4.2
10°-20°	91.7	15.1
20°-30°	161.1	26.5
30°-40°	182.9	30.0
40°-50°	118.4	19.5
50°-60°	23.2	3.8
60°-70°	2.8	0.5
70°-80°	2.3	0.4
80°-90°	1.1	0.2
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°	278.1	45.7
0°-40°	461.1	75.7
0°-60°	602.8	99.0
0°-90°	609.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	609.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	232	232	232	232	232	
5°	526	427	216	87	59	56
15°	991	676	103	6	5	285
25°	1244	738	23	3	4	583
35°	1344	497	3	3	4	826
45°	882	125	2	4	5	665
55°	70	1	2	5	7	133
65°	1	1	2	5	6	1
75°	0	1	2	4	5	1
85°	0	0	1	2	2	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	231.7	231.7	231.7	231.7	231.7	231.7	231.7	231.7	231.7	231.7	231.7
2.5°	376.4	375.4	376.9	366.7	366.2	358.6	356.5	347.9	336.1	330.5	317.3
5°	526.1	521.0	521.0	508.8	504.7	496.1	481.3	463.0	447.7	426.8	404.4
7.5°	641.7	640.7	640.7	630.0	619.8	607.6	587.7	566.9	542.4	510.3	477.7
10°	732.9	734.4	729.8	720.2	705.4	692.2	668.7	643.3	613.2	579.6	536.3
12.5°	848.0	836.8	833.2	811.3	792.5	767.0	739.0	710.0	672.8	630.5	581.6
15°	990.6	976.3	962.1	933.1	901.5	862.3	818.5	775.7	727.8	676.4	615.2
17.5°	1117.9	1117.9	1099.1	1053.3	1012.5	954.4	895.4	838.3	781.8	714.1	637.7
20°	1205.0	1200.4	1186.2	1152.6	1106.2	1040.5	963.6	883.7	815.4	739.0	650.4
22.5°	1233.6	1232.5	1233.0	1213.2	1176.0	1107.8	1013.5	919.3	833.7	745.1	644.3
25°	1243.7	1245.8	1250.9	1243.2	1215.2	1147.0	1044.1	936.1	839.3	738.0	620.9
27.5°	1286.0	1281.9	1287.5	1282.4	1250.9	1169.4	1050.2	932.0	827.1	712.0	579.1
30°	1319.1	1318.1	1327.8	1323.2	1281.9	1183.6	1044.6	916.8	797.1	658.5	513.4
32.5°	1338.0	1338.5	1341.0	1322.2	1261.1	1152.6	1017.1	885.7	740.5	588.8	427.8
35°	1344.1	1341.0	1326.8	1280.4	1196.9	1080.8	949.4	811.8	663.6	496.6	338.2
37.5°	1317.6	1301.8	1265.1	1195.9	1099.1	990.6	862.8	718.6	558.2	392.2	252.1
40°	1216.2	1195.4	1149.0	1078.2	988.1	883.1	752.3	601.5	432.9	287.8	177.2
42.5°	1064.5	1053.8	1005.4	943.8	867.4	761.4	626.5	473.7	320.4	198.6	113.1
45°	881.6	867.9	837.3	782.8	722.7	611.7	485.9	339.2	218.5	125.3	56.0
47.5°	661.1	662.1	641.2	600.0	540.9	448.2	332.6	227.7	137.0	64.7	12.7
50°	514.9	507.8	478.2	436.0	367.2	298.5	214.9	143.6	72.3	13.2	1.0
52.5°	285.2	289.8	274.0	260.3	224.6	178.3	126.8	72.8	15.3	1.5	1.0
55°	69.8	73.9	70.8	72.3	74.9	66.7	51.4	14.3	1.5	1.0	1.0
57.5°	1.5	1.5	1.5	1.5	2.5	3.6	3.6	1.0	1.0	1.0	1.0
60°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
62.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
65°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
67.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
70°	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0
72.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.0	1.0	1.0
75°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.0	1.0	1.0
77.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.0	1.0
80°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.0	1.0
82.5°	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5	0.5	0.5	1.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5	0.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	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):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	231.7	231.7	231.7	231.7	231.7	231.7	231.7	231.7
2.5°	310.7	301.0	283.2	230.2	184.9	149.2	127.8	125.8
5°	384.5	358.6	320.9	215.9	136.5	86.6	62.6	59.1
7.5°	443.1	406.4	348.4	192.5	93.2	44.3	24.4	20.4
10°	491.5	439.5	362.6	165.0	58.6	18.8	10.2	8.7
12.5°	524.6	461.9	365.2	134.5	33.6	9.2	6.6	6.1
15°	546.0	469.1	353.0	103.4	18.8	6.1	5.6	5.1
17.5°	554.6	463.0	329.5	74.9	10.2	4.6	4.6	4.6
20°	550.6	443.1	294.9	52.5	6.6	4.1	4.1	4.1
22.5°	531.2	409.0	251.6	35.1	4.6	3.6	3.6	3.6
25°	493.0	362.6	205.8	23.4	3.1	3.1	3.6	3.6
27.5°	436.0	305.6	157.4	15.8	2.5	3.1	3.6	3.6
30°	364.2	241.9	113.1	10.2	2.5	3.1	3.1	3.6
32.5°	289.3	176.2	74.4	6.1	2.0	3.1	3.6	4.1
35°	209.8	120.2	47.4	3.1	2.5	3.1	3.6	4.1
37.5°	147.2	78.4	27.5	2.0	2.5	3.1	4.1	4.1
40°	95.8	43.8	10.2	1.5	2.5	3.6	4.1	4.6
42.5°	49.9	15.3	2.0	1.5	2.5	3.6	4.6	5.1
45°	12.7	2.0	0.5	1.5	3.1	4.1	5.1	5.1
47.5°	1.5	0.5	0.5	2.0	3.1	4.6	5.1	5.6
50°	0.5	1.0	1.0	2.0	3.1	4.6	5.6	6.1
52.5°	1.0	1.0	1.0	2.0	3.6	4.6	6.1	6.6
55°	1.0	1.0	1.0	2.0	3.6	5.1	6.1	6.6
57.5°	1.0	1.0	1.0	2.0	3.6	5.1	6.1	6.1
60°	1.0	1.0	1.0	2.0	3.6	5.1	6.1	6.1
62.5°	1.0	1.0	1.5	2.0	3.6	4.6	6.1	6.1
65°	1.0	1.5	1.5	2.0	3.6	4.6	5.6	6.1
67.5°	1.0	1.0	1.5	2.0	3.6	4.6	5.6	6.1
70°	1.0	1.0	1.5	2.0	3.1	4.1	5.1	5.6
72.5°	1.0	1.0	1.5	2.0	3.1	4.1	4.6	5.1
75°	1.0	1.0	1.5	2.0	2.5	3.6	4.6	4.6
77.5°	1.0	1.0	1.5	1.5	2.5	3.1	4.1	4.1
80°	1.0	1.0	1.5	1.5	2.0	2.5	3.1	3.6
82.5°	1.0	1.0	1.0	1.5	1.5	2.0	2.5	2.5
85°	1.0	1.0	1.0	1.0	1.0	1.5	1.5	1.5
87.5°	0.5	1.0	1.0	1.0	1.0	1.0	1.0	0.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)