

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: P1343929

Luminaire Tested: P3A13R209030DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1343929
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: P3A13R209030DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R20 optic, 3000K CCT AND, 90CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

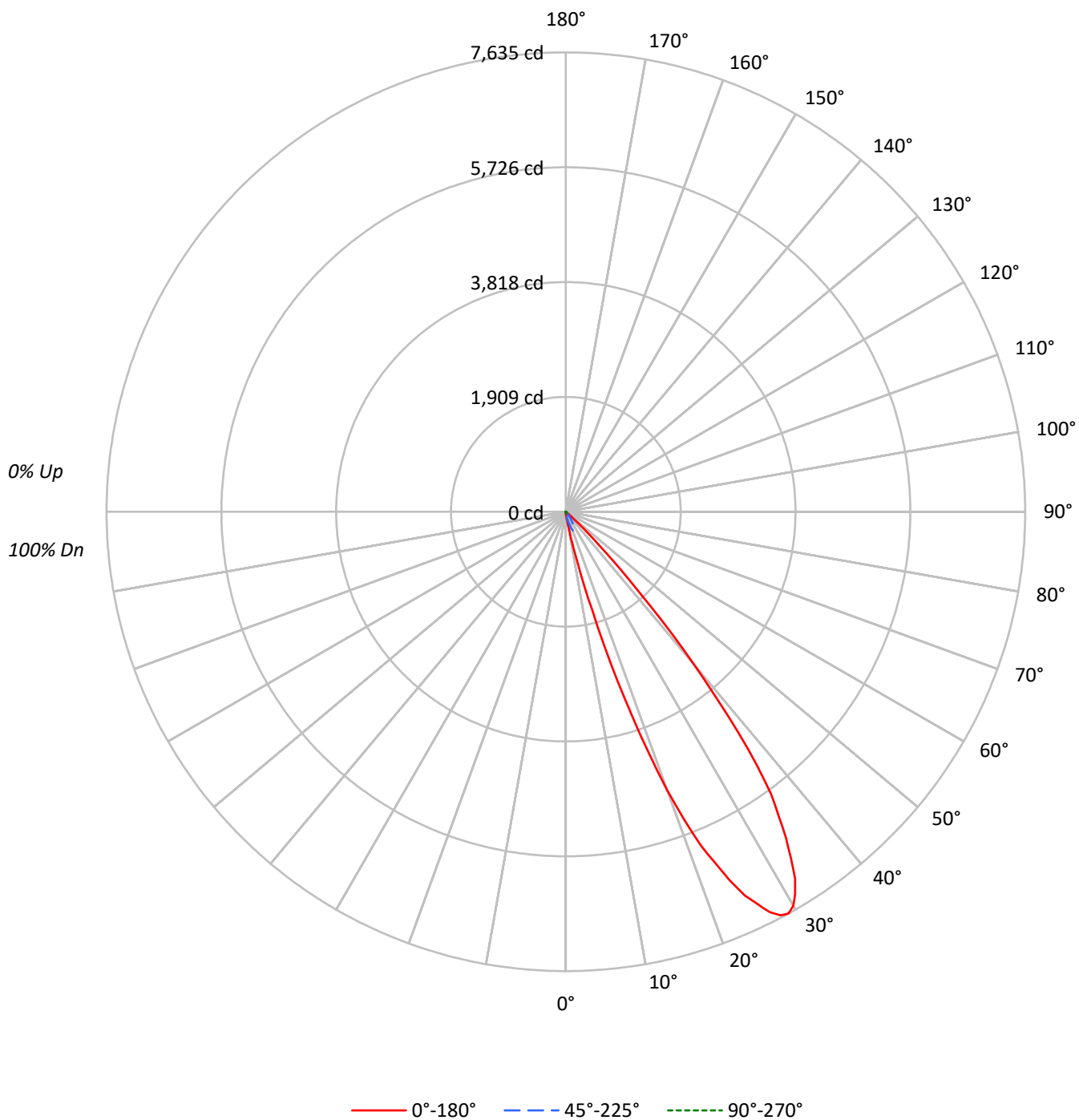
Lumens per Lamp: N/A
Luminaire Lumens: 1071.0 lumens
Efficiency: N/A
Efficacy: 73.4 lumens/watt
Spacing Criteria (0/90/45): 2.3 / 0.53 / 1.19
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.6
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°	8091	8091	8091	8091	8091
5°	18600	13911	7704	4711	4072
10°	58627	24226	6279	2605	1937
15°	379843	44768	4631	885	227
20°	1146396	76633	3174	0	0
25°	1702526	77351	1887	0	0
30°	1914573	58794	734	0	0
35°	1651929	35121	509	0	0
40°	951211	11965	0	0	0
45°	232024	4807	310	0	310
50°	27837	1330	341	341	989
55°	3708	0	726	726	1491
60°	439	0	1272	1272	2149
65°	519	519	2024	2024	3009
70°	641	641	2500	2500	3142
75°	0	847	3304	2457	3304
80°	0	1263	3662	2399	3662
85°	0	2516	7296	2516	2516

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°

Vertical Angle: 45°

Luminance: 233513 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.9	0.5
10°-20°	99.3	9.3
20°-30°	432.6	40.4
30°-40°	435.7	40.7
40°-50°	87.4	8.2
50°-60°	4.4	0.4
60°-70°	2.9	0.3
70°-80°	2.6	0.2
80°-90°	1.3	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°	536.8	50.1
0°-40°	972.5	90.8
0°-60°	1064.3	99.4
0°-90°	1071.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1071.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	37	37	37	37	37	
5°	84	63	35	21	18	13
15°	1673	197	20	4	1	655
25°	7037	320	8	0	0	3173
35°	6171	131	2	0	0	3672
45°	748	16	1	0	1	815
55°	10	0	2	2	4	18
65°	1	1	4	4	6	1
75°	0	1	4	3	4	0
85°	0	1	3	1	1	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°	36.9	36.9	36.9	36.9	36.9	36.9	36.9	36.9	36.9	36.9	36.9
2.5°	55.4	55.4	54.4	54.4	53.4	54.4	52.5	53.4	53.4	52.5	47.6
5°	84.5	86.5	85.5	85.5	84.5	85.5	83.6	81.6	79.7	79.7	63.2
7.5°	138.9	138.0	136.0	137.0	134.1	132.1	130.2	129.2	123.4	120.5	82.6
10°	263.3	269.1	264.3	263.3	245.8	244.9	233.2	216.7	202.1	194.3	108.8
12.5°	724.9	755.9	707.4	684.0	670.4	618.0	595.6	538.3	482.9	441.1	138.0
15°	1673.2	1749.9	1651.8	1658.6	1577.0	1427.4	1296.2	1183.5	1050.4	916.3	197.2
17.5°	3278.3	3216.2	3162.7	3072.4	2906.2	2686.6	2403.9	2117.2	1869.5	1610.0	275.0
20°	4912.7	4857.3	4735.8	4538.6	4326.8	4001.3	3665.1	3234.6	2817.8	2427.2	328.4
21°	5475.3	5456.8	5257.6	5136.1	4809.7	4498.7	4111.1	3650.5	3181.2	2718.7	337.2
22°	5977.6	5866.8	5759.9	5580.2	5255.7	4917.5	4486.1	4001.3	3492.1	2978.1	338.1
23°	6325.4	6274.9	6173.9	5970.8	5648.2	5250.8	4796.1	4288.9	3752.5	3161.8	335.2
24°	6710.2	6646.1	6498.4	6261.3	5935.8	5543.3	5024.4	4521.1	3938.1	3316.2	327.4
25°	7036.7	6936.6	6761.7	6506.2	6150.5	5745.4	5223.6	4670.7	4067.3	3420.2	319.7
26°	7248.5	7194.1	6969.7	6691.8	6310.9	5893.1	5360.6	4785.4	4150.9	3467.8	307.0
27°	7469.1	7369.0	7148.4	6828.8	6415.8	5989.3	5438.3	4840.8	4180.0	3469.8	291.5
28°	7595.4	7486.6	7236.9	6900.7	6483.8	6042.7	5483.0	4858.3	4174.2	3439.6	273.0
29°	7635.2	7498.2	7254.3	6912.3	6500.3	6046.6	5476.2	4833.0	4122.7	3365.8	251.7
30°	7561.4	7421.5	7190.2	6856.9	6447.9	5998.0	5413.1	4749.4	4031.4	3259.9	232.2
31°	7400.1	7281.6	7058.1	6723.8	6331.3	5884.3	5270.2	4612.4	3875.9	3118.0	209.9
32°	7187.3	7070.7	6851.1	6548.9	6149.6	5698.7	5074.9	4398.7	3693.2	2906.2	187.5
33°	6867.6	6800.6	6603.3	6314.8	5915.4	5433.5	4812.6	4143.1	3432.8	2671.1	168.1
34°	6544.1	6459.5	6321.6	6005.8	5576.3	5095.3	4470.6	3790.4	3115.1	2407.8	149.6
35°	6171.0	6120.4	5903.8	5651.1	5219.7	4728.1	4107.2	3447.4	2744.9	2114.3	131.2
36°	5809.5	5731.8	5485.0	5217.8	4799.0	4267.5	3654.4	3034.5	2425.2	1839.3	111.7
37°	5284.8	5166.3	4990.4	4708.6	4218.9	3766.1	3206.4	2631.2	2031.7	1542.0	90.4
38°	4667.8	4612.4	4368.5	4084.8	3679.6	3250.2	2696.3	2208.6	1676.1	1287.4	69.0
39°	3940.0	3939.1	3705.9	3500.9	3104.4	2717.7	2218.3	1792.7	1383.6	1036.8	53.4
40°	3323.0	3208.4	3064.6	2807.1	2503.0	2174.6	1737.3	1403.1	1073.7	835.6	41.8
42.5°	1742.2	1732.5	1647.9	1454.6	1284.5	1091.2	867.7	722.9	565.5	460.6	26.2
45°	748.2	753.0	694.7	665.6	599.5	518.9	438.2	365.3	312.9	253.6	15.5
47.5°	189.5	181.7	179.8	186.6	186.6	180.7	162.3	152.5	140.9	129.2	8.7
50°	81.6	79.7	77.7	77.7	72.9	70.0	65.1	59.3	54.4	48.6	3.9
52.5°	30.1	31.1	32.1	31.1	31.1	30.1	30.1	29.1	26.2	23.3	1.9
55°	9.7	9.7	9.7	10.7	10.7	11.7	11.7	11.7	11.7	10.7	0.0
57.5°	1.9	1.9	2.9	2.9	2.9	2.9	2.9	2.9	3.9	3.9	0.0
60°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0
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	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
72.5°	1.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
75°	0.0	0.0	0.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	1.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0



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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	1.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
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°	36.9	36.9	36.9	36.9	36.9	36.9
2.5°	42.8	37.9	32.1	27.2	26.2	25.3
5°	47.6	35.0	26.2	21.4	19.4	18.5
7.5°	51.5	32.1	21.4	15.5	13.6	12.6
10°	53.4	28.2	17.5	11.7	8.7	8.7
12.5°	54.4	24.3	12.6	7.8	4.9	4.9
15°	53.4	20.4	9.7	3.9	1.0	1.0
17.5°	48.6	16.5	5.8	1.0	0.0	0.0
20°	41.8	13.6	3.9	0.0	0.0	0.0
21°	39.8	11.7	2.9	0.0	0.0	0.0
22°	36.9	10.7	1.9	0.0	0.0	0.0
23°	34.0	9.7	1.9	0.0	0.0	0.0
24°	31.1	8.7	1.0	0.0	0.0	0.0
25°	29.1	7.8	1.0	0.0	0.0	0.0
26°	27.2	6.8	1.0	0.0	0.0	0.0
27°	24.3	5.8	0.0	0.0	0.0	0.0
28°	22.3	4.9	0.0	0.0	0.0	0.0
29°	19.4	3.9	0.0	0.0	0.0	0.0
30°	16.5	2.9	0.0	0.0	0.0	0.0
31°	13.6	2.9	0.0	0.0	0.0	0.0
32°	11.7	1.9	0.0	0.0	0.0	0.0
33°	9.7	1.9	0.0	0.0	0.0	0.0
34°	8.7	1.9	0.0	0.0	0.0	0.0
35°	7.8	1.9	0.0	0.0	0.0	0.0
36°	5.8	1.0	0.0	0.0	0.0	0.0
37°	4.9	1.0	0.0	0.0	0.0	0.0
38°	3.9	1.0	0.0	0.0	0.0	0.0
39°	2.9	0.0	0.0	0.0	0.0	0.0
40°	2.9	0.0	0.0	0.0	0.0	0.0
42.5°	1.0	0.0	0.0	0.0	0.0	0.0
45°	0.0	1.0	0.0	0.0	1.0	1.0
47.5°	0.0	1.0	0.0	0.0	1.0	1.9
50°	0.0	1.0	1.0	1.0	1.9	2.9
52.5°	0.0	1.9	1.0	1.0	2.9	2.9
55°	1.0	1.9	1.0	1.9	3.9	3.9
57.5°	1.0	1.9	1.9	2.9	3.9	4.9
60°	1.9	2.9	2.9	2.9	4.9	4.9
62.5°	1.9	2.9	3.9	3.9	4.9	5.8
65°	1.9	3.9	3.9	3.9	4.9	5.8
67.5°	2.9	3.9	3.9	3.9	4.9	5.8
70°	2.9	3.9	3.9	3.9	4.9	4.9
72.5°	2.9	3.9	2.9	3.9	3.9	4.9
75°	2.9	3.9	2.9	2.9	3.9	3.9
77.5°	1.9	2.9	2.9	1.9	2.9	2.9
80°	1.9	2.9	1.9	1.9	2.9	2.9



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	1.9	2.9	1.9	1.0	1.9	1.9
85°	1.9	2.9	1.9	1.0	1.0	1.0
87.5°	1.9	2.9	1.9	1.0	0.0	1.0
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)