

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: P1343885

Luminaire Tested: P3A13R209024DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1343885
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: P3A13R209024DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R20 optic, 2400K CCT AND, 90CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

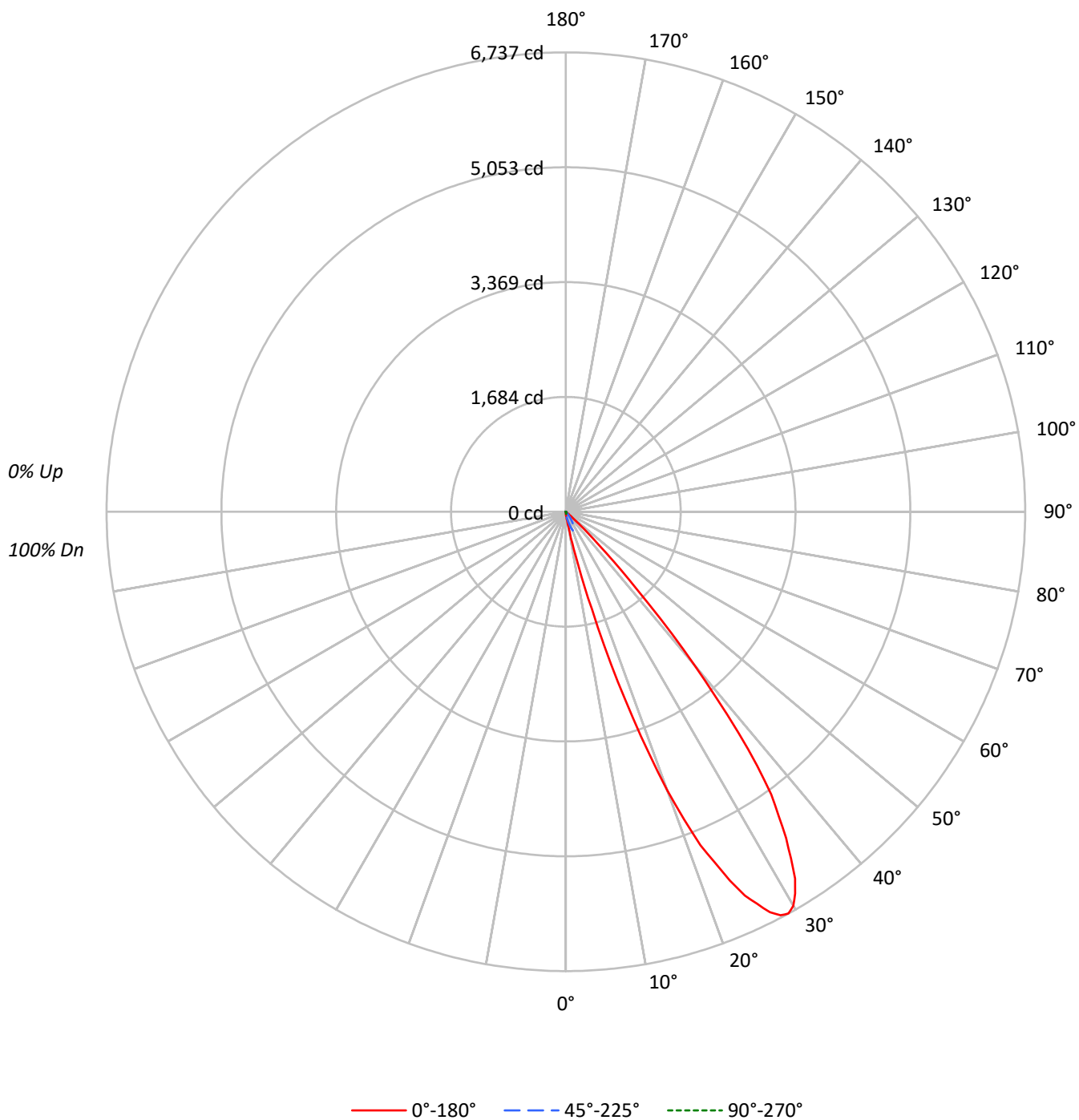
Lumens per Lamp: N/A
Luminaire Lumens: 945.0 lumens
Efficiency: N/A
Efficacy: 64.7 lumens/watt
Spacing Criteria (0/90/45): 2.29 / 0.53 / 1.19
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1343885

CATALOG NUMBER: P3A13R209024DE010 E3CA301MW

Luminous Intensity Polar Plot



TEST NUMBER: P1343885

CATALOG NUMBER: P3A13R209024DE010 E3CA301MW

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	76	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°	7149	7149	7149	7149	7149
5°	16421	12261	6802	4160	3588
10°	51725	21376	5544	2293	1715
15°	335144	39501	4086	772	204
20°	1011518	67626	2800	0	0
25°	1502216	68254	1669	0	0
30°	1689323	51881	658	0	0
35°	1457584	30972	455	0	0
40°	839315	10563	0	0	0
45°	204734	4249	279	0	279
50°	24562	1160	307	307	887
55°	3288	0	650	650	1300
60°	395	0	1140	1140	1886
65°	467	467	1764	1764	2646
70°	577	577	2180	2180	2757
75°	0	763	2881	2203	2881
80°	0	1137	3283	2147	3283
85°	0	2264	6542	2264	2264

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°

Vertical Angle: 45°

Luminance: 206037 cd/sqm

TEST NUMBER: P1343885

CATALOG NUMBER: P3A13R209024DE010 E3CA301MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.4	0.5
10°-20°	87.6	9.3
20°-30°	381.7	40.4
30°-40°	384.4	40.7
40°-50°	77.1	8.2
50°-60°	3.9	0.4
60°-70°	2.6	0.3
70°-80°	2.3	0.2
80°-90°	1.2	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°	473.7	50.1
0°-40°	858.1	90.8
0°-60°	939.1	99.4
0°-90°	945.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	945.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	33	33	33	33	33	
5°	75	56	31	19	16	12
15°	1476	174	18	3	1	578
25°	6209	282	7	0	0	2800
35°	5445	116	2	0	0	3240
45°	660	14	1	0	1	719
55°	9	0	2	2	3	16
65°	1	1	3	3	5	1
75°	0	1	3	3	3	0
85°	0	1	3	1	1	0
90°	0	0	0	0	0	

TEST NUMBER: P1343885

CATALOG NUMBER: P3A13R209024DE010 E3CA301MW

CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6
2.5°	48.9	48.9	48.0	48.0	47.2	48.0	46.3	47.2	47.2	46.3	42.0
5°	74.6	76.3	75.4	75.4	74.6	75.4	73.7	72.0	70.3	70.3	55.7
7.5°	122.6	121.7	120.0	120.9	118.3	116.6	114.9	114.0	108.9	106.3	72.9
10°	232.3	237.5	233.2	232.3	216.9	216.0	205.8	191.2	178.3	171.5	96.0
12.5°	639.6	667.0	624.1	603.6	591.6	545.3	525.5	475.0	426.1	389.2	121.7
15°	1476.3	1544.1	1457.5	1463.5	1391.5	1259.4	1143.7	1044.2	926.8	808.5	174.0
17.5°	2892.7	2837.8	2790.6	2710.9	2564.3	2370.5	2121.1	1868.1	1649.5	1420.6	242.6
20°	4334.7	4285.8	4178.7	4004.6	3817.7	3530.5	3233.9	2854.1	2486.3	2141.6	289.8
21°	4831.1	4814.8	4639.1	4531.9	4243.8	3969.5	3627.4	3221.0	2806.9	2398.8	297.5
22°	5274.3	5176.6	5082.3	4923.7	4637.3	4339.0	3958.3	3530.5	3081.3	2627.7	298.4
23°	5581.3	5536.7	5447.5	5268.3	4983.7	4633.1	4231.8	3784.3	3311.0	2789.8	295.8
24°	5920.8	5864.2	5733.9	5524.7	5237.5	4891.1	4433.3	3989.2	3474.8	2926.1	288.9
25°	6208.8	6120.5	5966.2	5740.7	5427.0	5069.4	4609.1	4121.2	3588.8	3017.8	282.1
26°	6395.7	6347.7	6149.7	5904.5	5568.4	5199.8	4729.9	4222.4	3662.6	3059.8	270.9
27°	6590.4	6502.1	6307.4	6025.4	5661.0	5284.6	4798.5	4271.3	3688.3	3061.6	257.2
28°	6701.8	6605.8	6385.5	6088.8	5721.0	5331.8	4838.0	4286.7	3683.1	3035.0	240.9
29°	6737.0	6616.1	6400.9	6099.1	5735.6	5335.2	4832.0	4264.4	3637.7	2969.8	222.1
30°	6671.8	6548.4	6344.3	6050.2	5689.3	5292.4	4776.2	4190.7	3557.1	2876.4	204.9
31°	6529.5	6424.9	6227.7	5932.8	5586.4	5192.0	4650.2	4069.8	3419.9	2751.2	185.2
32°	6341.7	6238.9	6045.1	5778.5	5426.1	5028.3	4477.9	3881.2	3258.7	2564.3	165.5
33°	6059.7	6000.5	5826.5	5571.8	5219.5	4794.2	4246.4	3655.7	3029.0	2356.8	148.3
34°	5774.2	5699.6	5577.8	5299.2	4920.3	4495.9	3944.6	3344.5	2748.6	2124.5	132.0
35°	5445.0	5400.4	5209.2	4986.3	4605.6	4171.8	3624.0	3041.8	2422.0	1865.6	115.7
36°	5126.0	5057.4	4839.7	4603.9	4234.4	3765.4	3224.5	2677.5	2139.9	1622.9	98.6
37°	4663.1	4558.5	4403.3	4154.7	3722.6	3323.0	2829.2	2321.7	1792.7	1360.6	79.7
38°	4118.7	4069.8	3854.6	3604.3	3246.7	2867.8	2379.1	1948.7	1478.9	1136.0	60.9
39°	3476.5	3475.7	3269.9	3089.0	2739.2	2398.0	1957.3	1581.8	1220.9	914.8	47.2
40°	2932.1	2830.9	2704.0	2476.9	2208.5	1918.7	1532.9	1238.0	947.4	737.3	36.9
42.5°	1537.2	1528.6	1454.0	1283.4	1133.4	962.8	765.6	637.9	499.0	406.4	23.1
45°	660.2	664.4	613.0	587.3	529.0	457.8	386.7	322.4	276.1	223.8	13.7
47.5°	167.2	160.3	158.6	164.6	164.6	159.5	143.2	134.6	124.3	114.0	7.7
50°	72.0	70.3	68.6	68.6	64.3	61.7	57.4	52.3	48.0	42.9	3.4
52.5°	26.6	27.4	28.3	27.4	27.4	26.6	26.6	25.7	23.1	20.6	1.7
55°	8.6	8.6	8.6	9.4	9.4	10.3	10.3	10.3	10.3	9.4	0.0
57.5°	1.7	1.7	2.6	2.6	2.6	2.6	2.6	2.6	3.4	3.4	0.0
60°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0
62.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
65°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
67.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
70°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
72.5°	0.9	0.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
75°	0.0	0.0	0.0	0.9	0.0	0.9	0.9	0.0	0.9	0.9	0.9
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9



TEST NUMBER: P1343885

CATALOG NUMBER: P3A13R209024DE010 E3CA301MW

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	0.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9
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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CATALOG NUMBER: P3A13R209024DE010 E3CA301MW

CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	32.6	32.6	32.6	32.6	32.6	32.6
2.5°	37.7	33.4	28.3	24.0	23.1	22.3
5°	42.0	30.9	23.1	18.9	17.1	16.3
7.5°	45.4	28.3	18.9	13.7	12.0	11.1
10°	47.2	24.9	15.4	10.3	7.7	7.7
12.5°	48.0	21.4	11.1	6.9	4.3	4.3
15°	47.2	18.0	8.6	3.4	0.9	0.9
17.5°	42.9	14.6	5.1	0.9	0.0	0.0
20°	36.9	12.0	3.4	0.0	0.0	0.0
21°	35.2	10.3	2.6	0.0	0.0	0.0
22°	32.6	9.4	1.7	0.0	0.0	0.0
23°	30.0	8.6	1.7	0.0	0.0	0.0
24°	27.4	7.7	0.9	0.0	0.0	0.0
25°	25.7	6.9	0.9	0.0	0.0	0.0
26°	24.0	6.0	0.9	0.0	0.0	0.0
27°	21.4	5.1	0.0	0.0	0.0	0.0
28°	19.7	4.3	0.0	0.0	0.0	0.0
29°	17.1	3.4	0.0	0.0	0.0	0.0
30°	14.6	2.6	0.0	0.0	0.0	0.0
31°	12.0	2.6	0.0	0.0	0.0	0.0
32°	10.3	1.7	0.0	0.0	0.0	0.0
33°	8.6	1.7	0.0	0.0	0.0	0.0
34°	7.7	1.7	0.0	0.0	0.0	0.0
35°	6.9	1.7	0.0	0.0	0.0	0.0
36°	5.1	0.9	0.0	0.0	0.0	0.0
37°	4.3	0.9	0.0	0.0	0.0	0.0
38°	3.4	0.9	0.0	0.0	0.0	0.0
39°	2.6	0.0	0.0	0.0	0.0	0.0
40°	2.6	0.0	0.0	0.0	0.0	0.0
42.5°	0.9	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.9	0.0	0.0	0.9	0.9
47.5°	0.0	0.9	0.0	0.0	0.9	1.7
50°	0.0	0.9	0.9	0.9	1.7	2.6
52.5°	0.0	1.7	0.9	0.9	2.6	2.6
55°	0.9	1.7	0.9	1.7	3.4	3.4
57.5°	0.9	1.7	1.7	2.6	3.4	4.3
60°	1.7	2.6	2.6	2.6	4.3	4.3
62.5°	1.7	2.6	3.4	3.4	4.3	5.1
65°	1.7	3.4	3.4	3.4	4.3	5.1
67.5°	2.6	3.4	3.4	3.4	4.3	5.1
70°	2.6	3.4	3.4	3.4	4.3	4.3
72.5°	2.6	3.4	2.6	3.4	3.4	4.3
75°	2.6	3.4	2.6	2.6	3.4	3.4
77.5°	1.7	2.6	2.6	1.7	2.6	2.6
80°	1.7	2.6	1.7	1.7	2.6	2.6



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	1.7	2.6	1.7	0.9	1.7	1.7
85°	1.7	2.6	1.7	0.9	0.9	0.9
87.5°	1.7	2.6	1.7	0.9	0.0	0.9
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)