

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: P1344183

Luminaire Tested: P3A13R20B2750DE010 E3CA301MW_5000K

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1344183
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: P3A13R20B2750DE010 E3CA301MW_5000K
Description: 3in Adjustable Boosted Cyan Tunable White LED luminaire with, R20 optic, 5000K CCT AND, 80CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

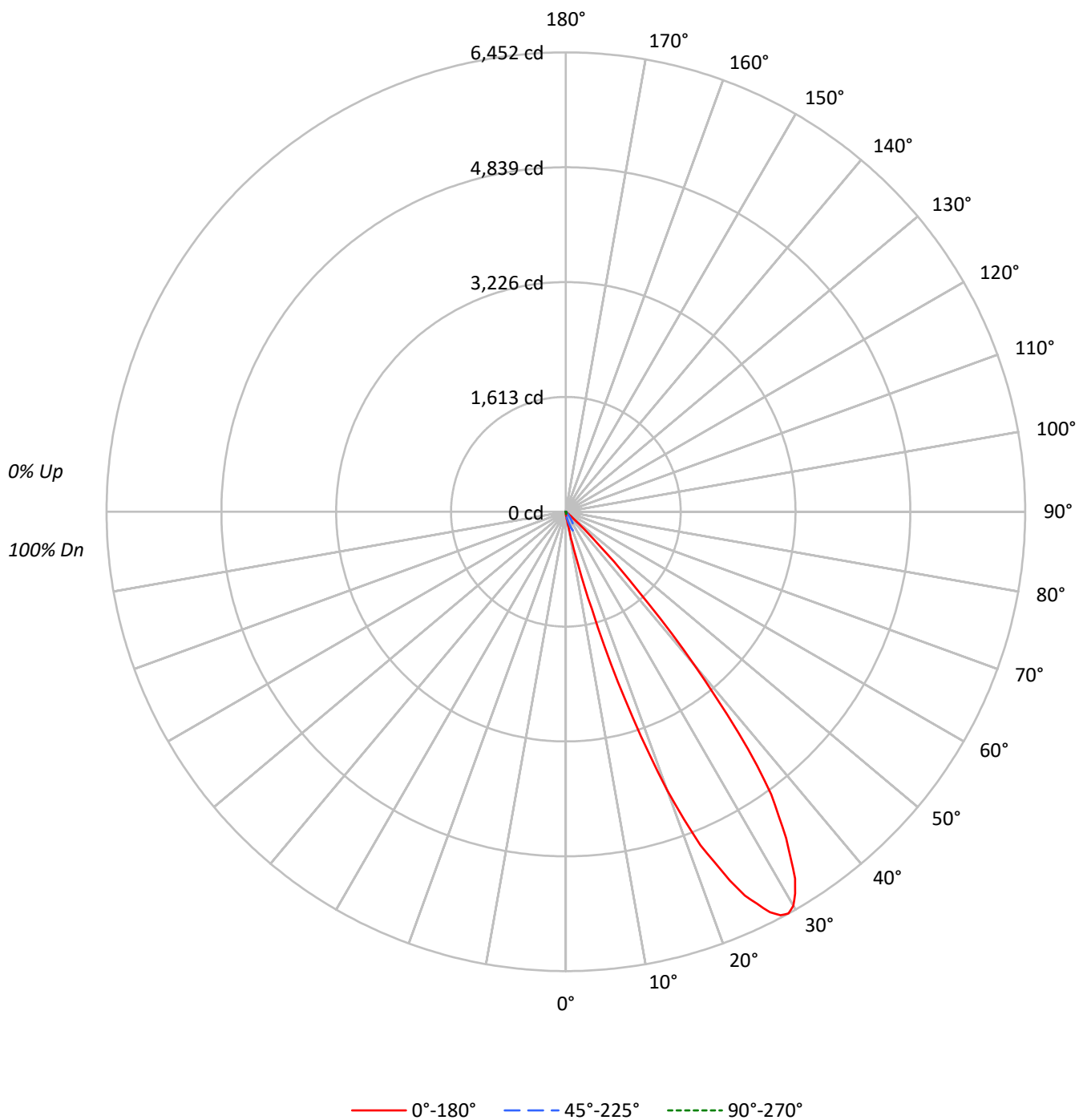
Lumens per Lamp: N/A
Luminaire Lumens: 905.0 lumens
Efficiency: N/A
Efficacy: 47.4 lumens/watt
Spacing Criteria (0/90/45): 2.3 / 0.53 / 1.19
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 19.1
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	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°	6842	6842	6842	6842	6842
5°	15716	11754	6516	3984	3434
10°	49543	20485	5299	2204	1648
15°	320955	37844	3905	749	182
20°	968698	64756	2684	0	0
25°	1438631	65351	1597	0	0
30°	1617819	49679	633	0	0
35°	1395881	29660	428	0	0
40°	803792	10105	0	0	0
45°	196051	4062	248	0	248
50°	23539	1126	273	273	853
55°	3135	0	612	612	1262
60°	351	0	1096	1096	1798
65°	415	415	1712	1712	2542
70°	513	513	2116	2116	2629
75°	0	678	2796	2118	2796
80°	0	1010	3157	2020	3157
85°	0	2013	6290	2013	2013

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°

Vertical Angle: 45°

Luminance: 197323 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.2	0.5
10°-20°	83.9	9.3
20°-30°	365.6	40.4
30°-40°	368.1	40.7
40°-50°	73.8	8.2
50°-60°	3.7	0.4
60°-70°	2.4	0.3
70°-80°	2.2	0.2
80°-90°	1.1	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°	453.6	50.1
0°-40°	821.8	90.8
0°-60°	899.3	99.4
0°-90°	905.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	905.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	31	31	31	31	31	
5°	71	53	30	18	16	11
15°	1414	167	17	3	1	554
25°	5946	270	7	0	0	2681
35°	5214	111	2	0	0	3103
45°	632	13	1	0	1	688
55°	8	0	2	2	3	15
65°	1	1	3	3	5	1
75°	0	1	3	2	3	0
85°	0	1	2	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°	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2
2.5°	46.8	46.8	46.0	46.0	45.2	46.0	44.3	45.2	45.2	44.3	40.2
5°	71.4	73.1	72.3	72.3	71.4	72.3	70.6	69.0	67.3	67.3	53.4
7.5°	117.4	116.6	114.9	115.8	113.3	111.7	110.0	109.2	104.3	101.8	69.8
10°	222.5	227.4	223.3	222.5	207.7	206.9	197.1	183.1	170.8	164.2	92.0
12.5°	612.5	638.8	597.7	578.0	566.5	522.2	503.3	454.9	408.1	372.8	116.6
15°	1413.8	1478.7	1395.8	1401.5	1332.6	1206.1	1095.3	1000.0	887.6	774.2	166.7
17.5°	2770.2	2717.7	2672.5	2596.2	2455.8	2270.2	2031.3	1789.1	1579.7	1360.5	232.4
20°	4151.2	4104.4	4001.8	3835.1	3656.1	3381.1	3097.0	2733.3	2381.0	2051.0	277.5
21°	4626.6	4611.0	4442.7	4340.1	4064.2	3801.5	3473.9	3084.7	2688.1	2297.3	284.9
22°	5051.1	4957.5	4867.2	4715.3	4441.1	4155.3	3790.8	3381.1	2950.9	2516.5	285.7
23°	5345.0	5302.3	5216.9	5045.3	4772.8	4437.0	4052.7	3624.1	3170.9	2671.7	283.3
24°	5670.2	5616.0	5491.2	5290.8	5015.8	4684.1	4245.6	3820.3	3327.7	2802.2	276.7
25°	5946.0	5861.5	5713.7	5497.7	5197.2	4854.9	4414.0	3946.8	3436.9	2890.1	270.1
26°	6125.0	6079.1	5889.4	5654.6	5332.7	4979.7	4529.7	4043.7	3507.5	2930.3	259.5
27°	6311.4	6226.8	6040.5	5770.3	5421.4	5060.9	4595.4	4090.5	3532.2	2932.0	246.3
28°	6418.1	6326.2	6115.2	5831.1	5478.9	5106.1	4633.2	4105.2	3527.2	2906.5	230.7
29°	6451.8	6336.0	6130.0	5840.9	5492.8	5109.4	4627.4	4083.9	3483.7	2844.1	212.7
30°	6389.4	6271.2	6075.8	5794.1	5448.5	5068.3	4574.1	4013.3	3406.5	2754.6	196.2
31°	6253.1	6152.9	5964.1	5681.7	5350.0	4972.3	4453.4	3897.5	3275.2	2634.7	177.3
32°	6073.3	5974.8	5789.2	5533.9	5196.4	4815.5	4288.3	3716.9	3120.8	2455.8	158.5
33°	5803.2	5746.5	5579.9	5336.0	4998.5	4591.3	4066.7	3501.0	2900.8	2257.1	142.0
34°	5529.8	5458.3	5341.7	5074.9	4712.0	4305.6	3777.6	3202.9	2632.3	2034.6	126.4
35°	5214.5	5171.8	4988.7	4775.2	4410.7	3995.2	3470.6	2913.1	2319.5	1786.6	110.8
36°	4909.1	4843.4	4634.8	4409.0	4055.2	3606.0	3088.0	2564.1	2049.3	1554.2	94.4
37°	4465.7	4365.5	4216.9	3978.8	3565.0	3182.4	2709.5	2223.4	1716.8	1303.0	76.4
38°	3944.3	3897.5	3691.4	3451.7	3109.3	2746.4	2278.4	1866.2	1416.3	1087.9	58.3
39°	3329.4	3328.5	3131.5	2958.2	2623.3	2296.5	1874.5	1514.8	1169.2	876.1	45.2
40°	2808.0	2711.1	2589.6	2372.0	2115.0	1837.5	1468.0	1185.6	907.3	706.1	35.3
42.5°	1472.1	1463.9	1392.5	1229.1	1085.4	922.0	733.2	610.9	477.9	389.2	22.2
45°	632.2	636.3	587.1	562.4	506.6	438.4	370.3	308.7	264.4	214.3	13.1
47.5°	160.1	153.5	151.9	157.6	157.6	152.7	137.1	128.9	119.1	109.2	7.4
50°	69.0	67.3	65.7	65.7	61.6	59.1	55.0	50.1	46.0	41.1	3.3
52.5°	25.5	26.3	27.1	26.3	26.3	25.5	25.5	24.6	22.2	19.7	1.6
55°	8.2	8.2	8.2	9.0	9.0	9.9	9.9	9.9	9.9	9.0	0.0
57.5°	1.6	1.6	2.5	2.5	2.5	2.5	2.5	2.5	3.3	3.3	0.0
60°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0
62.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
65°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
67.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
70°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
72.5°	0.8	0.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
75°	0.0	0.0	0.0	0.8	0.0	0.8	0.8	0.0	0.8	0.8	0.8
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8



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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	0.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8
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°	31.2	31.2	31.2	31.2	31.2	31.2
2.5°	36.1	32.0	27.1	23.0	22.2	21.3
5°	40.2	29.6	22.2	18.1	16.4	15.6
7.5°	43.5	27.1	18.1	13.1	11.5	10.7
10°	45.2	23.8	14.8	9.9	7.4	7.4
12.5°	46.0	20.5	10.7	6.6	4.1	4.1
15°	45.2	17.2	8.2	3.3	0.8	0.8
17.5°	41.1	14.0	4.9	0.8	0.0	0.0
20°	35.3	11.5	3.3	0.0	0.0	0.0
21°	33.7	9.9	2.5	0.0	0.0	0.0
22°	31.2	9.0	1.6	0.0	0.0	0.0
23°	28.7	8.2	1.6	0.0	0.0	0.0
24°	26.3	7.4	0.8	0.0	0.0	0.0
25°	24.6	6.6	0.8	0.0	0.0	0.0
26°	23.0	5.7	0.8	0.0	0.0	0.0
27°	20.5	4.9	0.0	0.0	0.0	0.0
28°	18.9	4.1	0.0	0.0	0.0	0.0
29°	16.4	3.3	0.0	0.0	0.0	0.0
30°	14.0	2.5	0.0	0.0	0.0	0.0
31°	11.5	2.5	0.0	0.0	0.0	0.0
32°	9.9	1.6	0.0	0.0	0.0	0.0
33°	8.2	1.6	0.0	0.0	0.0	0.0
34°	7.4	1.6	0.0	0.0	0.0	0.0
35°	6.6	1.6	0.0	0.0	0.0	0.0
36°	4.9	0.8	0.0	0.0	0.0	0.0
37°	4.1	0.8	0.0	0.0	0.0	0.0
38°	3.3	0.8	0.0	0.0	0.0	0.0
39°	2.5	0.0	0.0	0.0	0.0	0.0
40°	2.5	0.0	0.0	0.0	0.0	0.0
42.5°	0.8	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.8	0.0	0.0	0.8	0.8
47.5°	0.0	0.8	0.0	0.0	0.8	1.6
50°	0.0	0.8	0.8	0.8	1.6	2.5
52.5°	0.0	1.6	0.8	0.8	2.5	2.5
55°	0.8	1.6	0.8	1.6	3.3	3.3
57.5°	0.8	1.6	1.6	2.5	3.3	4.1
60°	1.6	2.5	2.5	2.5	4.1	4.1
62.5°	1.6	2.5	3.3	3.3	4.1	4.9
65°	1.6	3.3	3.3	3.3	4.1	4.9
67.5°	2.5	3.3	3.3	3.3	4.1	4.9
70°	2.5	3.3	3.3	3.3	4.1	4.1
72.5°	2.5	3.3	2.5	3.3	3.3	4.1
75°	2.5	3.3	2.5	2.5	3.3	3.3
77.5°	1.6	2.5	2.5	1.6	2.5	2.5
80°	1.6	2.5	1.6	1.6	2.5	2.5



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	1.6	2.5	1.6	0.8	1.6	1.6
85°	1.6	2.5	1.6	0.8	0.8	0.8
87.5°	1.6	2.5	1.6	0.8	0.0	0.8
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)