

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: P1344179

Luminaire Tested: P3A13R20B2750DE010 E3CA301MW_2700K

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1344179
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_2700K
Description: 3in Adjustable Boosted Cyan Tunable White LED luminaire with, R20 optic, 2700K CCT AND, 90CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

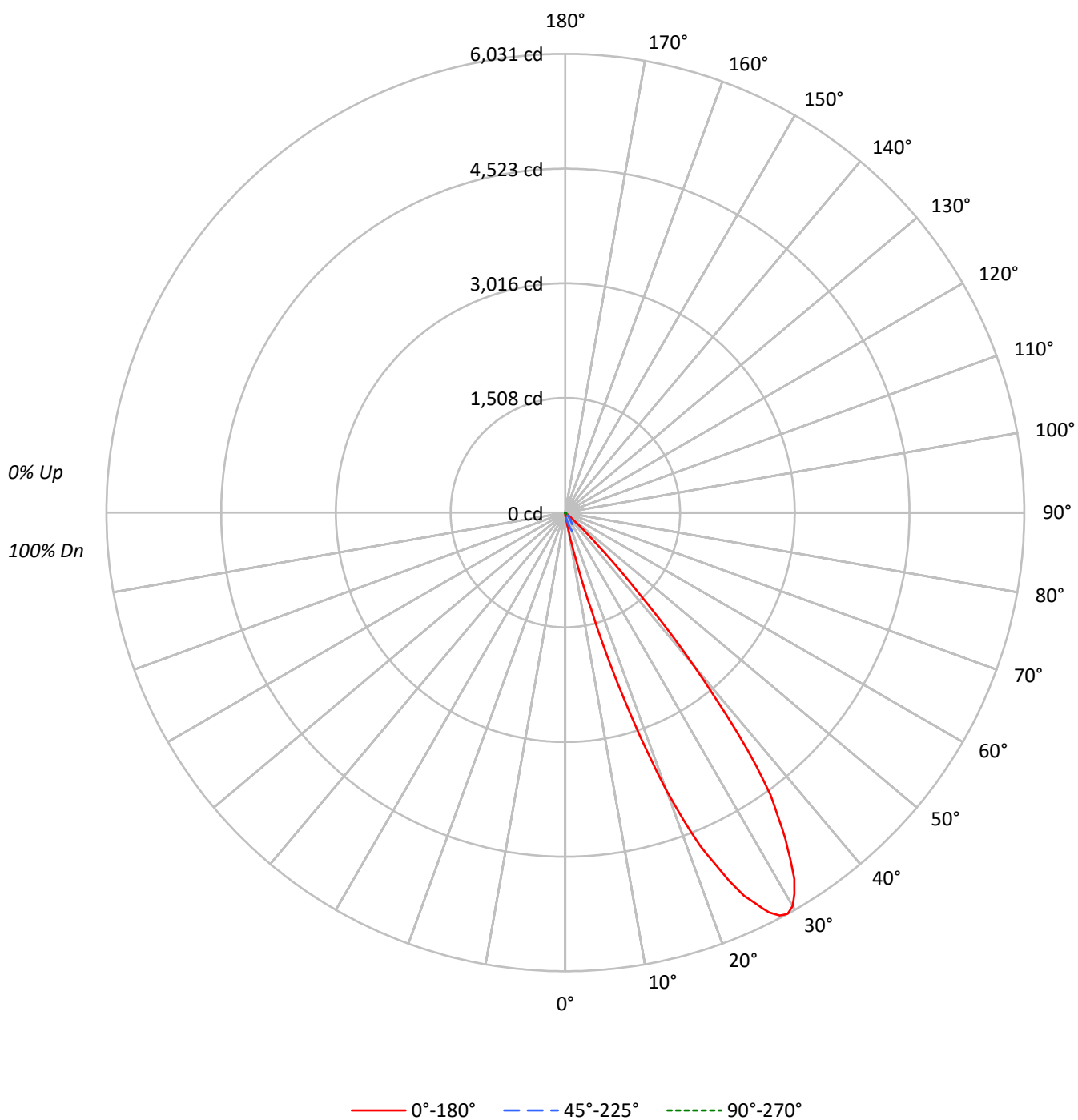
Lumens per Lamp: N/A
Luminaire Lumens: 846.0 lumens
Efficiency: N/A
Efficacy: 44.3 lumens/watt
Spacing Criteria (0/90/45): 2.29 / 0.53 / 1.19
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	6403	6403	6403	6403	6403
5°	14704	10984	6075	3720	3214
10°	46314	19149	4965	2049	1536
15°	300047	35369	3655	704	182
20°	905552	60532	2497	0	0
25°	1344852	61092	1476	0	0
30°	1512359	46438	582	0	0
35°	1304866	27733	402	0	0
40°	751379	9446	0	0	0
45°	183275	3814	248	0	248
50°	22004	1058	273	273	785
55°	2944	0	573	573	1185
60°	351	0	1009	1009	1667
65°	415	415	1608	1608	2387
70°	513	513	1988	1988	2436
75°	0	678	2626	1949	2626
80°	0	1010	2904	1894	2904
85°	0	2013	5787	2013	2013

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°

Vertical Angle: 45°

Luminance: 184453 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.9	0.5
10°-20°	78.4	9.3
20°-30°	341.7	40.4
30°-40°	344.1	40.7
40°-50°	69.0	8.2
50°-60°	3.5	0.4
60°-70°	2.3	0.3
70°-80°	2.0	0.2
80°-90°	1.0	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°	424.0	50.1
0°-40°	768.2	90.8
0°-60°	840.7	99.4
0°-90°	846.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	846.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	29	29	29	29	29	
5°	67	50	28	17	15	10
15°	1322	156	16	3	1	518
25°	5558	252	6	0	0	2506
35°	4874	104	2	0	0	2900
45°	591	12	1	0	1	643
55°	8	0	2	2	3	14
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°	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2
2.5°	43.7	43.7	43.0	43.0	42.2	43.0	41.4	42.2	42.2	41.4	37.6
5°	66.8	68.3	67.5	67.5	66.8	67.5	66.0	64.5	62.9	62.9	49.9
7.5°	109.8	109.0	107.5	108.2	105.9	104.4	102.8	102.1	97.5	95.2	65.2
10°	208.0	212.6	208.8	208.0	194.2	193.4	184.2	171.2	159.6	153.5	86.0
12.5°	572.6	597.1	558.8	540.3	529.6	488.1	470.5	425.2	381.5	348.5	109.0
15°	1321.7	1382.3	1304.8	1310.2	1245.7	1127.5	1023.9	934.8	829.7	723.8	155.8
17.5°	2589.6	2540.5	2498.3	2426.9	2295.7	2122.2	1898.9	1672.4	1476.7	1271.8	217.2
20°	3880.6	3836.8	3740.9	3585.1	3417.8	3160.7	2895.1	2555.1	2225.8	1917.3	259.4
21°	4325.0	4310.4	4153.1	4057.1	3799.2	3553.6	3247.4	2883.6	2512.9	2147.5	266.3
22°	4721.8	4634.3	4549.9	4407.9	4151.5	3884.4	3543.7	3160.7	2758.5	2352.5	267.1
23°	4996.6	4956.7	4876.8	4716.4	4461.6	4147.7	3788.5	3387.8	2964.2	2497.5	264.8
24°	5300.5	5249.9	5133.2	4945.9	4688.8	4378.7	3968.9	3571.3	3110.8	2619.6	258.7
25°	5558.4	5479.3	5341.2	5139.3	4858.4	4538.4	4126.2	3689.5	3212.8	2701.7	252.5
26°	5725.7	5682.7	5505.4	5285.9	4985.1	4655.0	4234.4	3780.0	3278.9	2739.3	242.5
27°	5899.9	5820.9	5646.7	5394.1	5068.0	4731.0	4295.8	3823.8	3301.9	2740.8	230.3
28°	5999.7	5913.8	5716.5	5450.9	5121.7	4773.2	4331.1	3837.6	3297.3	2717.0	215.7
29°	6031.2	5923.0	5730.3	5460.2	5134.7	4776.3	4325.8	3817.7	3256.6	2658.7	198.8
30°	5972.9	5862.3	5679.7	5416.4	5093.3	4737.9	4275.9	3751.7	3184.5	2575.0	183.4
31°	5845.5	5751.8	5575.3	5311.3	5001.2	4648.1	4163.0	3643.4	3061.6	2463.0	165.8
32°	5677.4	5585.3	5411.8	5173.1	4857.6	4501.5	4008.8	3474.6	2917.4	2295.7	148.1
33°	5424.8	5371.9	5216.1	4988.1	4672.7	4292.0	3801.5	3272.7	2711.7	2109.9	132.8
34°	5169.3	5102.5	4993.5	4744.1	4404.8	4024.9	3531.4	2994.1	2460.7	1901.9	118.2
35°	4874.5	4834.6	4663.5	4463.9	4123.1	3734.8	3244.3	2723.2	2168.3	1670.1	103.6
36°	4589.0	4527.6	4332.7	4121.6	3790.8	3371.0	2886.7	2397.0	1915.7	1452.9	88.3
37°	4174.6	4080.9	3942.0	3719.4	3332.6	2974.9	2532.8	2078.5	1604.9	1218.1	71.4
38°	3687.2	3643.4	3450.8	3226.7	2906.6	2567.4	2129.9	1744.6	1324.0	1017.0	54.5
39°	3112.3	3111.5	2927.3	2765.4	2452.2	2146.8	1752.3	1416.1	1093.0	818.9	42.2
40°	2624.9	2534.4	2420.8	2217.4	1977.1	1717.7	1372.3	1108.3	848.1	660.1	33.0
42.5°	1376.2	1368.5	1301.7	1149.0	1014.7	861.9	685.4	571.0	446.7	363.8	20.7
45°	591.0	594.8	548.8	525.8	473.6	409.9	346.2	288.6	247.1	200.3	12.3
47.5°	149.7	143.5	142.0	147.4	147.4	142.8	128.2	120.5	111.3	102.1	6.9
50°	64.5	62.9	61.4	61.4	57.6	55.3	51.4	46.8	43.0	38.4	3.1
52.5°	23.8	24.6	25.3	24.6	24.6	23.8	23.8	23.0	20.7	18.4	1.5
55°	7.7	7.7	7.7	8.4	8.4	9.2	9.2	9.2	9.2	8.4	0.0
57.5°	1.5	1.5	2.3	2.3	2.3	2.3	2.3	2.3	3.1	3.1	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

TEST NUMBER: P1344179

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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	29.2	29.2	29.2	29.2	29.2	29.2
2.5°	33.8	29.9	25.3	21.5	20.7	20.0
5°	37.6	27.6	20.7	16.9	15.4	14.6
7.5°	40.7	25.3	16.9	12.3	10.7	10.0
10°	42.2	22.3	13.8	9.2	6.9	6.9
12.5°	43.0	19.2	10.0	6.1	3.8	3.8
15°	42.2	16.1	7.7	3.1	0.8	0.8
17.5°	38.4	13.0	4.6	0.8	0.0	0.0
20°	33.0	10.7	3.1	0.0	0.0	0.0
21°	31.5	9.2	2.3	0.0	0.0	0.0
22°	29.2	8.4	1.5	0.0	0.0	0.0
23°	26.9	7.7	1.5	0.0	0.0	0.0
24°	24.6	6.9	0.8	0.0	0.0	0.0
25°	23.0	6.1	0.8	0.0	0.0	0.0
26°	21.5	5.4	0.8	0.0	0.0	0.0
27°	19.2	4.6	0.0	0.0	0.0	0.0
28°	17.7	3.8	0.0	0.0	0.0	0.0
29°	15.4	3.1	0.0	0.0	0.0	0.0
30°	13.0	2.3	0.0	0.0	0.0	0.0
31°	10.7	2.3	0.0	0.0	0.0	0.0
32°	9.2	1.5	0.0	0.0	0.0	0.0
33°	7.7	1.5	0.0	0.0	0.0	0.0
34°	6.9	1.5	0.0	0.0	0.0	0.0
35°	6.1	1.5	0.0	0.0	0.0	0.0
36°	4.6	0.8	0.0	0.0	0.0	0.0
37°	3.8	0.8	0.0	0.0	0.0	0.0
38°	3.1	0.8	0.0	0.0	0.0	0.0
39°	2.3	0.0	0.0	0.0	0.0	0.0
40°	2.3	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	1.5
50°	0.0	0.8	0.8	0.8	1.5	2.3
52.5°	0.0	1.5	0.8	0.8	2.3	2.3
55°	0.8	1.5	0.8	1.5	3.1	3.1
57.5°	0.8	1.5	1.5	2.3	3.1	3.8
60°	1.5	2.3	2.3	2.3	3.8	3.8
62.5°	1.5	2.3	3.1	3.1	3.8	4.6
65°	1.5	3.1	3.1	3.1	3.8	4.6
67.5°	2.3	3.1	3.1	3.1	3.8	4.6
70°	2.3	3.1	3.1	3.1	3.8	3.8
72.5°	2.3	3.1	2.3	3.1	3.1	3.8
75°	2.3	3.1	2.3	2.3	3.1	3.1
77.5°	1.5	2.3	2.3	1.5	2.3	2.3
80°	1.5	2.3	1.5	1.5	2.3	2.3



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	1.5	2.3	1.5	0.8	1.5	1.5
85°	1.5	2.3	1.5	0.8	0.8	0.8
87.5°	1.5	2.3	1.5	0.8	0.0	0.8
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)