

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: P1344180

Luminaire Tested: P3A13R20B2750DE010 E3CA301MW_3000K

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1344180
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_3000K
Description: 3in Adjustable Boosted Cyan Tunable White LED luminaire with, R20 optic, 3000K CCT AND, 90CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

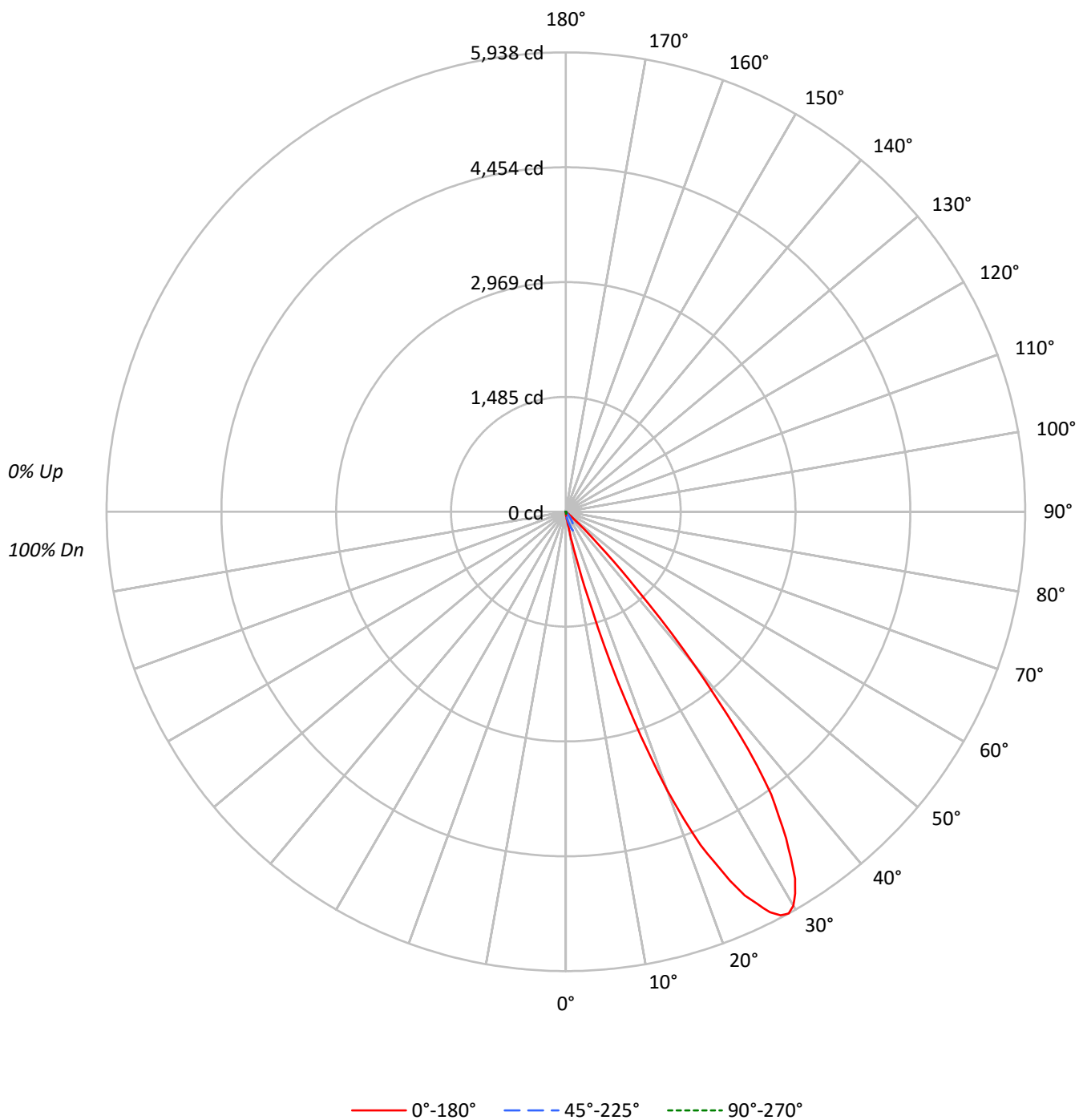
Lumens per Lamp: N/A
Luminaire Lumens: 833.1 lumens
Efficiency: N/A
Efficacy: 43.6 lumens/watt
Spacing Criteria (0/90/45): 2.3 / 0.54 / 1.19
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1344180

CATALOG NUMBER: P3A13R20B2750DE010 E3CA301MW_3000K

Luminous Intensity Polar Plot





TEST NUMBER: P1344180

CATALOG NUMBER: P3A13R20B2750DE010 E3CA301MW_3000K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20
RC	80					70					50					30					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0			
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°	6293	6293	6293	6293	6293
5°	14462	10808	5987	3654	3170
10°	45601	18837	4876	2026	1514
15°	295439	34824	3610	681	182
20°	891644	59599	2474	0	0
25°	1324189	60149	1452	0	0
30°	1489115	45729	582	0	0
35°	1284816	27305	402	0	0
40°	739843	9303	0	0	0
45°	180453	3752	248	0	248
50°	21662	1023	273	273	785
55°	2906	0	573	573	1147
60°	351	0	1009	1009	1667
65°	415	415	1557	1557	2335
70°	513	513	1923	1923	2436
75°	0	678	2542	1949	2542
80°	0	1010	2904	1894	2904
85°	0	2013	5787	2013	2013

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°

Vertical Angle: 45°

Luminance: 181631 cd/sqm

TEST NUMBER: P1344180

CATALOG NUMBER: P3A13R20B2750DE010 E3CA301MW_3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.8	0.5
10°-20°	77.2	9.3
20°-30°	336.5	40.4
30°-40°	338.9	40.7
40°-50°	68.0	8.2
50°-60°	3.4	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°	417.5	50.1
0°-40°	756.4	90.8
0°-60°	827.8	99.4
0°-90°	833.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	833.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	29	29	29	29	29	
5°	66	49	27	17	14	10
15°	1301	153	16	3	1	510
25°	5473	249	6	0	0	2468
35°	4800	102	2	0	0	2856
45°	582	12	1	0	1	634
55°	8	0	2	2	3	14
65°	1	1	3	3	4	1
75°	0	1	3	2	3	0
85°	0	1	2	1	1	0
90°	0	0	0	0	0	

TEST NUMBER: P1344180

CATALOG NUMBER: P3A13R20B2750DE010 E3CA301MW_3000K

CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	28.7	28.7	28.7	28.7	28.7	28.7	28.7	28.7	28.7	28.7	28.7
2.5°	43.1	43.1	42.3	42.3	41.6	42.3	40.8	41.6	41.6	40.8	37.0
5°	65.7	67.3	66.5	66.5	65.7	66.5	65.0	63.5	62.0	62.0	49.1
7.5°	108.1	107.3	105.8	106.6	104.3	102.8	101.3	100.5	96.0	93.7	64.2
10°	204.8	209.3	205.6	204.8	191.2	190.4	181.4	168.5	157.2	151.1	84.6
12.5°	563.8	588.0	550.2	532.0	521.5	480.6	463.3	418.7	375.6	343.1	107.3
15°	1301.4	1361.1	1284.7	1290.0	1226.5	1110.2	1008.1	920.5	816.9	712.7	153.4
17.5°	2549.8	2501.5	2459.9	2389.6	2260.4	2089.6	1869.7	1646.7	1454.0	1252.2	213.9
20°	3821.0	3777.9	3683.4	3530.0	3365.3	3112.1	2850.6	2515.8	2191.6	1887.8	255.4
21°	4258.5	4244.2	4089.2	3994.8	3740.9	3499.0	3197.5	2839.3	2474.3	2114.5	262.2
22°	4649.2	4563.1	4480.0	4340.1	4087.7	3824.7	3489.2	3112.1	2716.1	2316.3	263.0
23°	4919.8	4880.5	4801.9	4644.0	4393.0	4084.0	3730.3	3335.8	2918.6	2459.1	260.7
24°	5219.1	5169.2	5054.3	4869.9	4616.7	4311.4	3907.9	3516.4	3063.0	2579.3	254.7
25°	5473.0	5395.1	5259.1	5060.4	4783.8	4468.6	4062.8	3632.8	3163.5	2660.2	248.6
26°	5637.7	5595.4	5420.8	5204.7	4908.5	4583.5	4169.4	3722.0	3228.5	2697.2	238.8
27°	5809.3	5731.4	5559.9	5311.3	4990.1	4658.3	4229.8	3765.0	3251.1	2698.7	226.7
28°	5907.5	5822.9	5628.7	5367.2	5043.0	4699.9	4264.6	3778.6	3246.6	2675.3	212.4
29°	5938.5	5832.0	5642.3	5376.3	5055.8	4702.9	4259.3	3759.0	3206.6	2617.8	195.7
30°	5881.1	5772.3	5592.4	5333.2	5015.0	4665.1	4210.2	3694.0	3135.5	2535.5	180.6
31°	5755.6	5663.4	5489.6	5229.6	4924.3	4576.7	4099.1	3587.4	3014.6	2425.1	163.2
32°	5590.1	5499.4	5328.6	5093.6	4783.0	4432.3	3947.2	3421.2	2872.5	2260.4	145.9
33°	5341.5	5289.3	5135.9	4911.5	4600.9	4226.0	3743.1	3222.4	2670.0	2077.5	130.7
34°	5089.8	5024.1	4916.8	4671.2	4337.1	3963.0	3477.1	2948.1	2422.9	1872.7	116.4
35°	4799.6	4760.3	4591.8	4395.3	4059.8	3677.4	3194.5	2681.3	2134.9	1644.5	102.0
36°	4518.5	4458.0	4266.1	4058.3	3732.5	3319.2	2842.3	2360.1	1886.3	1430.6	86.9
37°	4110.4	4018.2	3881.4	3662.3	3281.4	2929.2	2493.9	2046.5	1580.2	1199.3	70.3
38°	3630.5	3587.4	3397.8	3177.1	2861.9	2527.9	2097.1	1717.8	1303.6	1001.3	53.7
39°	3064.5	3063.7	2882.3	2722.9	2414.6	2113.8	1725.3	1394.3	1076.2	806.4	41.6
40°	2584.6	2495.4	2383.6	2183.3	1946.8	1691.3	1351.2	1091.3	835.1	649.9	32.5
42.5°	1355.0	1347.5	1281.7	1131.3	999.1	848.7	674.9	562.3	439.8	358.2	20.4
45°	581.9	585.7	540.3	517.7	466.3	403.6	340.8	284.2	243.3	197.2	12.1
47.5°	147.4	141.3	139.8	145.1	145.1	140.6	126.2	118.6	109.6	100.5	6.8
50°	63.5	62.0	60.5	60.5	56.7	54.4	50.6	46.1	42.3	37.8	3.0
52.5°	23.4	24.2	24.9	24.2	24.2	23.4	23.4	22.7	20.4	18.1	1.5
55°	7.6	7.6	7.6	8.3	8.3	9.1	9.1	9.1	9.1	8.3	0.0
57.5°	1.5	1.5	2.3	2.3	2.3	2.3	2.3	2.3	3.0	3.0	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



TEST NUMBER: P1344180

CATALOG NUMBER: P3A13R20B2750DE010 E3CA301MW_3000K

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: P1344180

CATALOG NUMBER: P3A13R20B2750DE010 E3CA301MW_3000K

CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	28.7	28.7	28.7	28.7	28.7	28.7
2.5°	33.3	29.5	24.9	21.2	20.4	19.6
5°	37.0	27.2	20.4	16.6	15.1	14.4
7.5°	40.1	24.9	16.6	12.1	10.6	9.8
10°	41.6	21.9	13.6	9.1	6.8	6.8
12.5°	42.3	18.9	9.8	6.0	3.8	3.8
15°	41.6	15.9	7.6	3.0	0.8	0.8
17.5°	37.8	12.8	4.5	0.8	0.0	0.0
20°	32.5	10.6	3.0	0.0	0.0	0.0
21°	31.0	9.1	2.3	0.0	0.0	0.0
22°	28.7	8.3	1.5	0.0	0.0	0.0
23°	26.5	7.6	1.5	0.0	0.0	0.0
24°	24.2	6.8	0.8	0.0	0.0	0.0
25°	22.7	6.0	0.8	0.0	0.0	0.0
26°	21.2	5.3	0.8	0.0	0.0	0.0
27°	18.9	4.5	0.0	0.0	0.0	0.0
28°	17.4	3.8	0.0	0.0	0.0	0.0
29°	15.1	3.0	0.0	0.0	0.0	0.0
30°	12.8	2.3	0.0	0.0	0.0	0.0
31°	10.6	2.3	0.0	0.0	0.0	0.0
32°	9.1	1.5	0.0	0.0	0.0	0.0
33°	7.6	1.5	0.0	0.0	0.0	0.0
34°	6.8	1.5	0.0	0.0	0.0	0.0
35°	6.0	1.5	0.0	0.0	0.0	0.0
36°	4.5	0.8	0.0	0.0	0.0	0.0
37°	3.8	0.8	0.0	0.0	0.0	0.0
38°	3.0	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	3.0	3.0
57.5°	0.8	1.5	1.5	2.3	3.0	3.8
60°	1.5	2.3	2.3	2.3	3.8	3.8
62.5°	1.5	2.3	3.0	3.0	3.8	4.5
65°	1.5	3.0	3.0	3.0	3.8	4.5
67.5°	2.3	3.0	3.0	3.0	3.8	4.5
70°	2.3	3.0	3.0	3.0	3.8	3.8
72.5°	2.3	3.0	2.3	3.0	3.0	3.8
75°	2.3	3.0	2.3	2.3	3.0	3.0
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



TEST NUMBER: P1344180

CATALOG NUMBER: P3A13R20B2750DE010 E3CA301MW_3000K

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)