

# LUMA-AER 18W LED 4' T-8 LAMP TUBE



Introducing the 18 watt Air series LED T-8 bulb designed to be the most powerful, reliable and energy efficient commercial and residential fluorescent tube replacement. Our Luma-AER T-8 replacement tubes assure nighttime performance free from environmentally hazardous materials and unmatched energy savings, while the white light provides the best images for colored security cameras.

## Specifications

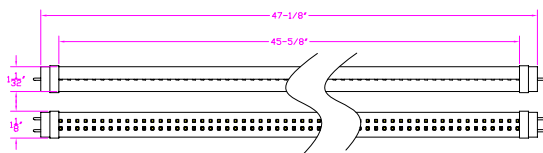
Total Lumens	1688
Maximum Candela	
Input Power Watts	18.85
Input Power Amp	.16
Color Rendering Index (CRI)	68
Correlated Color Temperature (CCT)	5846K
Beam Angle @ 50%	°
Beam Angle @ 100%	°
Maximum Spread	'
Rated Life	50k Hours
Warranty	3 Yr. Limited

## Features

- Replaces traditional 32 Watt T8 fluorescent tube
- Wide range of power supply with no special ballast or transformers required.
- Large range of operating temperature ranging from -40° to 180°w
- Instant on even in extremely cold environments
- Wet & dry zone lighting
- No strobing or flickering
- Crisp white, energy efficient light best for security cameras
- Significantly longer life leads to reduced maintenance costs
- ETL Certified

## Applications

- Commercial & Residential Complexes
- Security
- Architectural & Landscape Lighting
- Institutional Buildings & Warehouses
- Hotels & Schools
- Colleges & Universities
- Hospitals
- Marinas & Docks
- Signage
- Walkways
- Maintenance Areas
- Storage Areas
- Parking Garages
- Stairways



Up to 90% Energy Savings  
 \$6<sup>61</sup> Yearly Operating Cost Per Fixture

Part Number	Color	Volt	Price
LVTL418	Clear	120-277 AC	
LVTL418F	Frosted	120-277 AC	

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## CHARACTERISTICS

Lumens Per Lamp N.A. ....	(absolute)
Total Lamp Lumens N.A. ....	(absolute)
Luminaire Lumens .....	2873
Total Luminaire Efficiency.....	N.A.
Luminaire Efficacy Rating (LER) .....	78
Total Luminaire Watts .....	36.77
Ballast Factor .....	1.00
CIE Type.....	Direct
Spacing Criteria (0-180).....	1.20
Spacing Criteria (90-270).....	1.38
Spacing Criteria (Diagonal) .....	1.44
Basic Luminous Shape.....	Rectangular w/Sides
Luminous Length (0-180) .....	4.14 ft
Luminous Width (90-270).....	0.49 ft
Luminous Height .....	0.17 ft

## Luminance Data (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4004	4153	3479
55	3117	3028	2602
65	2167	2314	2805
75	1083	1953	2713
85	662	1485	1237

## Candela Tabulation Data (cd/sq.m)

	0.0	22.5	45.0	67.5	90.0
0	969	969	969	969	969
5	956	968	971	969	967
15	911	924	961	911	919
25	825	873	864	890	895
35	708	719	807	859	860
45	556	626	706	638	625
55	357	464	456	420	421
65	188	263	293	361	390
75	61	135	193	257	304
85	16	48	101	106	101
90	13	34	69	69	66
95	14	28	53	57	57
105	12	22	36	44	46
115	11	15	33	40	41
125	0	10	18	30	34
135	0	0	12	17	19
145	0	0	0	11	13
155	0	0	0	0	0
165	0	0	0	0	0
175	0	0	0	0	0
180	0	0	0	0	0

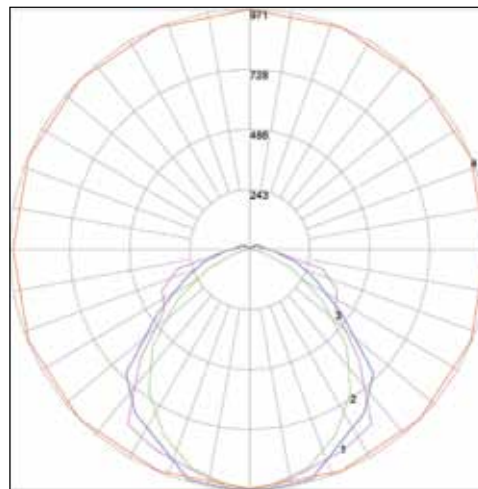
## ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	540.40	N.A.	18.80
0-40	996.02	N.A.	34.70
0-60	1950.07	N.A.	67.90
0-90	2733.62	N.A.	95.10
90-120	98.93	N.A.	3.40
90-130	121.33	N.A.	4.20
90-150	138.17	N.A.	4.80
90-180	139.36	N.A.	4.90
0-180	2872.98	N.A.	100.00

## COEFFICIENTS OF UTILIZATION

RC RW	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	118	118	118	118	115	115	115	115	108	108	108	103	103	103	98	98	98	95
1	105	99	94	90	102	97	92	88	91	88	84	87	83	80	82	80	77	75
2	95	85	78	71	91	83	76	70	78	72	67	74	69	65	71	66	63	60
3	86	74	65	58	83	72	64	57	68	61	55	65	59	54	61	56	52	49
4	78	65	55	48	75	63	54	47	60	52	46	57	50	45	54	48	44	41
5	71	57	48	40	69	56	47	40	53	45	39	51	44	38	48	42	37	35
6	65	51	42	35	63	50	41	34	48	40	34	45	38	33	43	37	32	30
7	60	46	37	30	58	45	36	30	43	35	29	41	34	29	39	33	28	26
8	56	42	33	26	54	41	32	26	39	31	26	37	30	25	36	29	25	23
9	52	38	29	23	50	37	29	23	35	28	23	34	27	22	33	26	22	20
10	48	35	26	21	47	34	26	21	32	25	20	31	25	20	30	24	20	18

## Polar Graph



Maximum Candela = 971 Located At Horizontal Angle = 45, Vertical Angle = 5  
 # 1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.) : BLUE  
 # 2 - Vertical Plane Through Horizontal Angles (0 - 180) : GREEN  
 # 3 - Vertical Plane Through Horizontal Angles (90 - 270) : MAGENTA  
 # 4 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.) : RED