



EMERALD

LINEAR FIXTURES
LED linear strip fixture



The EMERALD series is a LED linear strip lighting fixture that is multi-functional incorporating premium performance and construction durability. This product is specifically designed for operation from 120 to 347V. To suit your space preferences, it is available in 4 and 8 foot lengths. These fixtures are used in every application and can be both suspended or surface mounted. Their versatility allows installation in garages, stairwells, storage areas , etc.

Project: _____
Qty: _____
Notes: _____

OPERATING & ELECTRICAL

Input voltage 347V
Power factor 0.9
Total harmonic distortion (THD) <20%
Dimming 0-10V external dimming down to 10%

PERFORMANCE

Lumens per Watt 130 LPW at 80CRI
Distribution Lambertian

MECHANICAL & HOUSING

Housing 22-gauge painted sheet metal
Lens Highly durable polycarbonate lens ensures high efficiency light output for a clean, evenly illuminated surface with minimal glare. High transmittance lens allowing for a smooth, diffused light pattern.
Finish Painted white

Power Supply Factory wired electronic LED driver
LED Board Light emitted source

APPLICATION CONDITION

Ambient temperature range -10 to 45°C

COMPATIBLE MOUNTING

Mounting Surface mounted with clip-in bracket, suspended mounted

WARRANTY

System warranty 5 years
Lumen maintenance Rated for 85% initial lumen output at 50,000 hours of operation, operated at 25°C ambient temperature; per guidelines published by the Illuminating Engineering Society (IES). (L85 at 50,000 hours)

ORDERING GUIDE

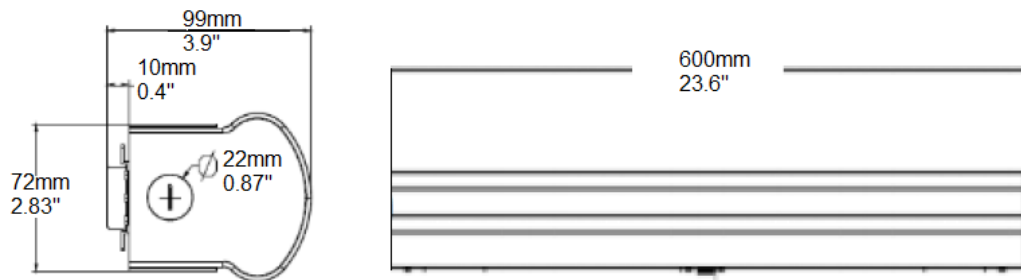
EXAMPLE: AE-SF-ERCA432N30-010WH

AE-SF-ER	CA	4	32	N	30	-010	WH
FIXTURE FAMILY	VOLTAGE	LENGTH	POWER	CRI	CCT	CONTROLS	Finish
AE-SF-ER Aeralux Emerald linear fixture	CA 347Vac	2 2 feet fixture length	20 20 watts: 2600 lumens	N Normal 80 CRI	30 3000K CCT	-010 0-10V external dimming down to 10%	WH White painted finish
		4 4 feet fixture length	32 32 watts: 4100 lumens		40 4000K CCT	-MS1 Motion sensor option	
			40 40 watts: 5125 lumens				
		8 8 feet fixture length	65 65 watts: 8250 lumens				

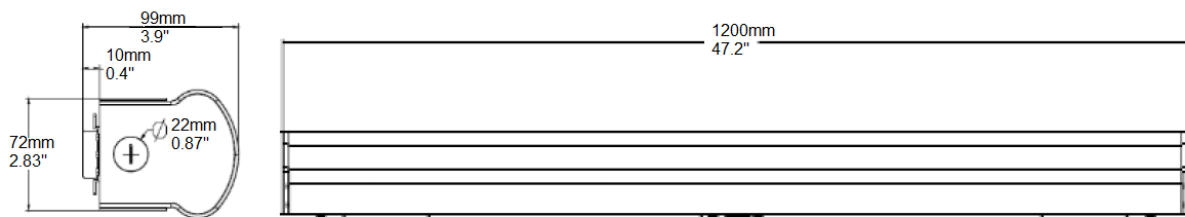


PRODUCT DIMENSIONS

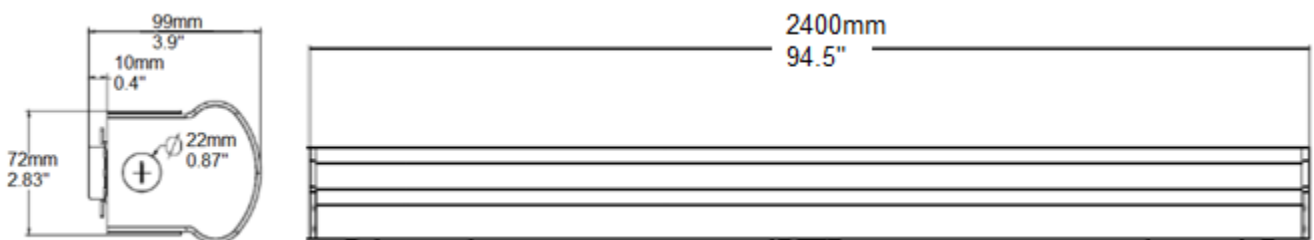
AE-SF-ERCA220NXX-010XX



AE-SF-ERCA432NXX-010XX



AE-SF-ERCA865NXX-010XX



LUMEN ESTIMATE

Lumen output varies based on CCT and CRI. An estimate of lumen output of the various CCT/CRI combinations, use correction factors as per table below:

Lumen estimate adjustment factors				
CCT	2700K	3000K	3500K	4000K
NORMAL (80CRI)	0.91	0.94	0.97	1

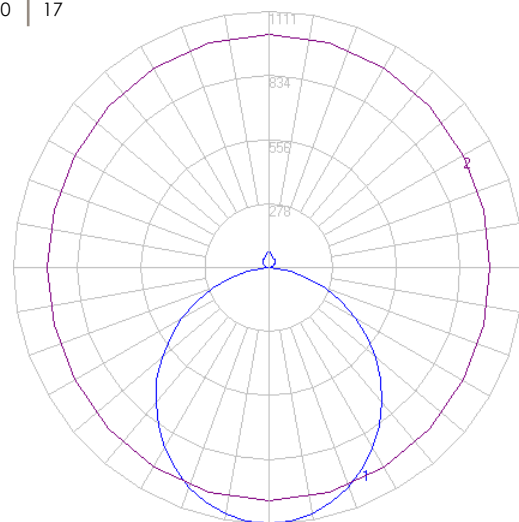
PHOTOMETRIC DATA

AE-SF-ECOUV432N40-010WH

Coefficients of utilization											
Ceiling	80%				70%		50%		30%		0%
Wall	70%	50%	30%	10%	50%	10%	50%	10%	50%	10%	0
RCR	Zonal Cavity Method – Effective floor reflectance = 20%										
Room Cavity Ratio	0	115	115	115	115	110	110	102	102	94	83
	1	103	97	92	88	93	85	86	79	79	65
	2	93	84	76	70	80	68	74	64	68	53
	3	84	73	64	57	70	56	65	53	60	44
	4	77	64	55	48	62	47	57	44	53	37
	5	70	57	48	41	55	40	51	38	47	32
	6	65	51	42	36	49	35	46	33	43	28
	7	60	46	37	31	45	30	42	29	39	24
	8	56	42	34	28	41	27	38	26	36	22
	9	52	39	30	25	37	24	35	23	33	19
	10	49	36	28	22	34	22	32	21	30	17

Luminance data			
Angle	0°	45°	90°
45°	9989	7822	7727
55°	9204	6977	7088
65°	8028	6132	6487
75°	6222	5403	6023
85°	2746	4977	5842

Zonal lumen			
Zone	Lumens	Zone	Lumens
0-10	105.11	90-100	191.12
10-20	300.79	100-110	147.16
20-30	456.04	110-120	117.87
30-40	553.73	120-130	94.35
40-50	587.33	130-140	72.32
50-60	558.14	140-150	51.87
60-70	476.97	150-160	32.93
70-80	368.46	160-170	17.73
80-90	263.64	170-180	5.92





EMERALD

LINEAR FIXTURES

Led linear strip fixture

CONTINUOUS MOUNTING

Side knockouts for continuous mounting



MULTIPLE MOUNTING METHODS

Easy to install surface or suspended mounting by easily removing the polycarbonate lens.



PREMIUM DESIGN CHOICES

22-gauge sheet metal housing for cost-reduction and increased durability in robust environments



CHOOSE YOUR MODEL

Multiple size lengths, lumen packages, and color temperature options allow you to choose the fixture that is perfect for your project space.

WIDE INPUT VOLTAGE RANGE

Allows for input voltage of 120-347V perfect for Canadian markets.



Aeralux Inc.
514 447 7598 | 1-630-534-2589
www.aeralux.com

Aeralux Incorporation All Rights Reserved. Any information provided is subject to change without notice. All values are typical values when measured under normal laboratory conditions.

aeralux