

FEATURES & SPECIFICATIONS

INTENDED USE

ES8P provides a T8 energy-saving alternative to 2-lamp parabolic fixtures. Used in place of parabolics, ES8P can provide 29% energy savings while meeting IESNA recommended illuminance levels. Ideal for retail, educational, and commercial applications requiring lighting power density as low as 0.64 watts/square foot.

Designed and optimized for use with high lumen T8 lamps and energy-efficient electronic ballasts.

Highly reflective surfaces combine with efficient design to produce up to 84% photometric efficiency and a Luminaire Efficacy Rating (LER) of up to 71 using listed lamps and ballast.

CONSTRUCTION

Robust design, precision-tooling, and automated assembly combine to create the industry's strongest louver. Rotary sockets provide for simple lamp insertion and positive engagement into lamp contacts. Mechanical light seal. Integral T-bar clips secure fixture to T-bar system. Housing formed of cold-rolled steel.

Finish: Five-stage iron-phosphate pre-treatment ensures superior paint adhesion and rust resistance. Housing painted after fabrication with environmentally friendly, high gloss, very high reflectivity polyester powder-coat.

Louver painted after fabrication with low gloss, high reflectivity polyester powder coat.

OPTICS

Mechanical shielding is provided with angled length blades, and linear faceted cross baffles. Contoured housing efficiently directs light downward. Lamp cut-out maximizes shielding even in shallow plenum applications and softens light distribution to deliver a balanced amount of light to both vertical and horizontal surfaces.

ELECTRICAL

Standard ballast is high-efficiency, instant-start, ≤10% THD, universal voltage and sound rated A.

Optional program-start and step-dimming ballasts available.

LISTING

Standard: UL; Optional: Canada – CSA or cUL. Mexico – NOM.

US PATENTS: 6,210,025; 6,231,213, additional patents pending.

WARRANTY

1-year limited warranty. Complete warranty terms located at www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx.

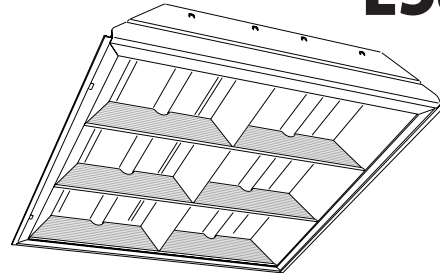
Note: Specifications subject to change without notice.

Catalog Number
Notes
Type

Premium Energy Savings T8 Lighting

ES8P 2'x2'

2 Lamps
T8



Specifications

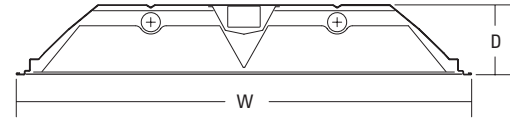
Length: 24 (61.0)

Width: 24 (61.0)

Depth: 3-3/4 (9.5)

Weight: 18 lbs. (8.1 kg)

All dimensions are inches (centimeters) unless otherwise indicated.



ORDERING INFORMATION

For shortest lead times, configure products using **bolded options**.

Example: 2ES8P 217 BIHP L835HT8

2ES8P		217					
Series	Trim type	Number of lamps/wattage	Voltage	Ballast	Lamp	Options ⁴	
2ES8P	(blank) Lay-in grid F Overlapping flanged	217 2-lamp, 17W T8 (24")	(blank) MVOLT ¹	BILP IS, high-efficiency, .81 bf (low)	L835HT8 1400 lumen, long life, 3500K	EL Emergency battery pack (nominal 300 lumens)	
			120 120V	BINP IS, high-efficiency, .90 bf (normal)	L830HT8 1400 lumen, long life, 3000K	PWS1836 6' prewire, 3/8" dia., 18-gauge, 3 wires	
			277 277V	BIHP IS, high-efficiency, 1.24 bf (high) ²	L841HT8 1400 lumen, long life 4100K	QFC_ Quick-flex, fixture cable, factory installed prewired cable (RELOC) ⁵	
			347 347V	BSNP PS, step-dimming, high efficiency, .90 bf (normal) ³		CP Chicago plenum approved	
						CSA Listed and labeled to comply with Canadian standards	
						NOM NOM Certified	

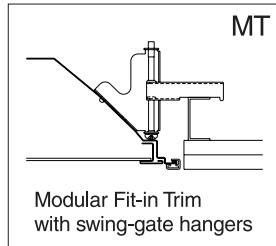
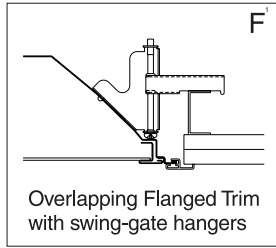
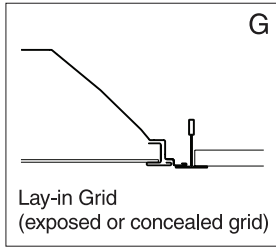
NOTES:

- MVOLT standard for 120V - 277V applications. 50 or 60 hz operation. Some options require voltage specified.
- 347V not available with high-efficiency ballast.
- Not available with 347V.
- Other options available may increase fixture depth. Consult factory if plenum space is a concern.
- Must specify voltage.

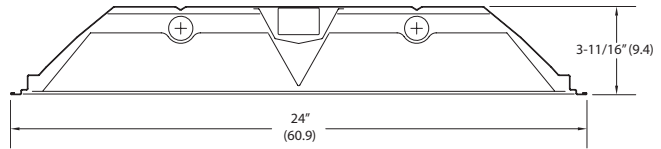
ES8P 2'x2' Premium Energy-Saving T8 Lighting

MOUNTING DATA

Continuous row mounting of flanged units requires CRE and CRM trim options (see Options).



DIMENSIONS



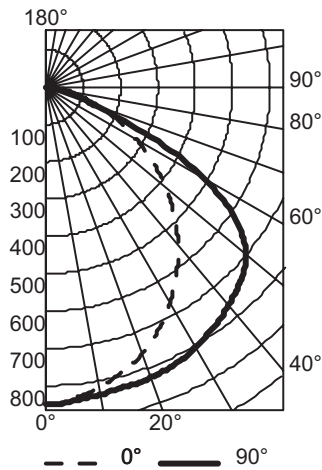
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NOTE:

- 1 Recommended rough-in dimensions for F-trim fixtures 24"x24". (Tolerance is +1/4"-0".) Swing-gate range 1-3/16" to 3-15/16". Swing-gate span 23-3/8" to 26-11/16". Fixture swing-gate points require additional 9/16" over nominal fixture height.

PHOTOMETRICS

2ES8P 217, 1400 lumens per lamp, test no. LTL 16075



CP Summary

	0°	90°
0°	848	848
5°	839	843
15°	791	830
25°	716	819
35°	611	784
45°	487	736
55°	351	622
65°	216	291
75°	100	85
85°	25	16
90°	0	0

Coefficients of Utilization

RCR	pf	20%									
		80%			70%			50%			
	pc	pw	70%	50%	30%	50%	30%	10%	50%	30%	10%
0	0	101	101	101	98	98	98	94	94	94	
1	1	92	89	85	87	84	81	83	81	78	
2	2	84	78	72	76	71	67	73	69	65	
3	3	77	68	62	67	61	56	65	59	55	
4	4	70	61	53	59	53	47	57	51	47	
5	5	65	54	47	53	46	41	51	45	40	
6	6	60	49	41	48	41	36	46	40	35	
7	7	55	44	37	43	36	31	42	36	31	
8	8	51	40	33	40	33	28	38	32	28	
9	9	48	37	30	36	30	25	35	29	25	
10	10	45	34	27	33	27	23	33	27	23	

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Fixture
0° - 30°	657	23.4	27.8
0° - 40°	1086	38.8	45.9
0° - 60°	1964	70.2	83.1
0° - 90°	2364	84.4	100.0
90° - 180°	0	0.0	0.0
0° - 180°	2364	84.4	100.0

Efficiency: 84.4%

Energy and Light Level Comparison

System	Light level	Input watts	Watts/SF	Watts saved	% Savings	\$ Savings per year	LER
Parabolic, (2) 2700 lumen U31W T8 lamps .88 ballast factor	47	59	0.92	Base	Base	Base	52
ES8P, (2) 1400 lumen T8 lamps, 1.24 ballast factor	45	41	0.66	18	29%	\$5.44	71

Light level is estimate based on 8x8 mounting centers, 9 foot ceilings, 60x60 room, 80/50/20 reflectances, .95 LLD, horizontal light level on 2.5 foot workplane height. Annual savings based on 4000 operating hours, \$.08/kwh. Luminaire Efficacy Rating (LER) is fixture lumen output divided by fixture input wattage.