

# FEATURES & SPECIFICATIONS

#### INTENDED USE

ES8P provides a T8 energy-saving alternative to 2-lamp compact fluorescent or 3-lamp parabolic fixtures. Used in place of parabolics, ES8P can provide 41% energy savings while meeting IESNA recommended illuminance levels. Ideal for retail, educational, and commercial applications requiring lighting power density as low as 0.73 watts/square foot.

#### **ATTRIBUTES**

Designed and optimized for use with high lumen T8 lamps and energyefficient electronic ballasts.

Highly reflective surfaces combine with efficient design to produce up to 82% photometric efficiency and a Luminaire Efficacy Rating (LER) of up to 76 using listed lamps and ballast.

#### CONSTRUCTION

Robust design, precision-tooling, and automated assembly combine to create the industry's strongest louver. Mechanical light seal requires no foam gasketing. 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.

#### OPTICAL

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 SYSTEM**

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

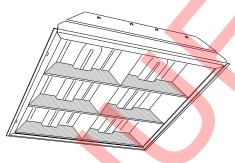
Optional program-start and step-dimming ballasts available.

Ballast disconnect standard on all configurations except EL options. See note in Ordering Information.

# Catalog Number Notes Type

**Premium Energy-Saving T8 Lighting** 

**ES8P 2'x2'** 



2-U Lamps

#### **Specifications**

Length: 24 (609) Width: 24 (609) Depth: 3-11/16 (94) Weight: 18 lbs (8.1 kg)

All dimensions are inches (millimeters) unless otherwise specified.

#### LISTING

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

#### WARRANTY

Light fixture is guaranteed for one year against mechanical defects in manufacture.

Ballast is warranted for five years, and lamp is warranted for three years under system warranty terms provided by lamp and ballast manufacturer. For options see below.

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

Specifications subject to change without notice.

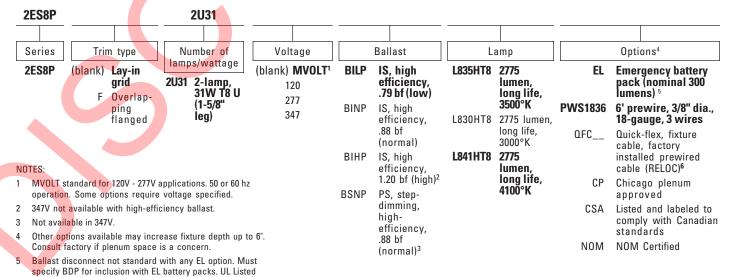
# ORDERING INFORMATION

only. Consult factory for BDP CSA with EL option.

Must specify voltage.

For shortest lead times, configure product using standard options (shown in bold).

Example: 2ES8P 2U31 BILP L835HT8

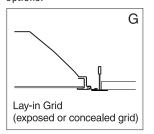


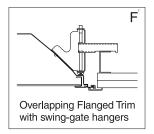
Fluorescent Sheet #: 2ES8P-2x2-U PAR-40

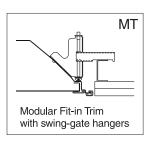
# ES8P 2'x2' Premium Energy-Saving T8 Lighting

### **MOUNTING DATA**

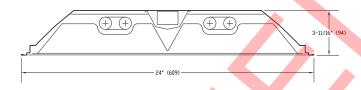
Continuous row mounting of flanged units requires CRE and CRM trim options.







## **DIMENSIONS**

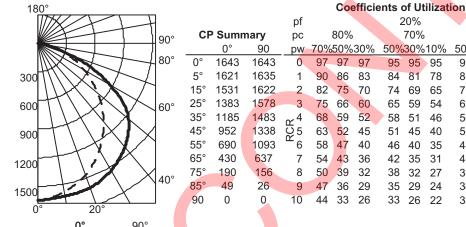


All dimensions are inches (millimeters) unless otherwise specified. Specifications subject to change without notice.

#### NOTE:

Recommended rough-in dimensions for F-trim fixtures 24"x 24". (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.

#### 2ES8P 2U31, 2775 lumens per lamp, test no. LTL 16076



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			pf				2	20%					
CP Summary			рс	80%		70%			50%			Zon	
	0° 90		pw	70%50%30%		50%30%10%			50%30%10%			Zone	
0°	1643	1643	0	97	97	97	95	95	95	91	91	91	0° - 30°
5°	1621	1635	1	90	86	83	84	81	78	81	78	76	0° - 40°
15°	1531	1622	2	82	75	70	74	69	65	71	67	63	0° - 60°
25°	1383	1578	3	75	66	60	65	59	54	62	57	53	0° - 90°
35°	1185	1483	~ 4	68	59	52	58	51	46	56	50	45	90° - 180°
45°	952	1338	25	63	52	45	51	45	40	50	44	39	0° - 180°
55°	690	1093	<sup>L</sup> 6	58	47	40	46	40	35	45	39	34	
65°	430	637	7	54	43	36	42	35	31	41	35	30	
75°	190	156	8	50	39	32	38	32	27	37	31	27	
85°	49	26	9	47	36	29	35	29	24	34	28	24	
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**Zonal Lumen Summary** 

1275

2099

3746

4543

0

4543

Lumens % Lamp % Fixture

23.0

37.8

67.5

81.8

0.0

81.8

28.1

46.2

82.5

100.0

0.0

100.0

ENERGY AND LIGHT LEVEL COMPARISON									
	Light	Input		Watts		\$ Savings			
System	level	watts	Watts/SF	saved	% Savings	per year	LER		
Parabolic, (3) 2775 lumen U31 T8 lamps .88 ballast factor	74	80	1.25	Base	Base	Base	58		
ES8P, (2) 2775 lumen U31 T8 lamps, .79 ballast factor	56	47	0.73	33	41%	\$10.56	76		
ES8P, (2) 2775 lumen U31 T8 lamps, .88 ballast factor	62	53	0.83	27	34%	\$8.64	75		

Light level is estimate based on 8x8 mounting centers 9 foot ceilings, 60x60 room, 80/50/20 reflectances, .95 LLD, .90 LDD, horizontal light level on 2.5 foot workplane height.

Annual savings based on 4000 operating hours, \$.08/kwh. Lumainare Efficacy Rating (LER) is fixture lumen output divided by fixture input wattage.

