

## FEATURES & SPECIFICATIONS

**INTENDED USE** — ES8P provides a high-performance T8 (HPT8) energy-saving alternative to 3-lamp, 18-cell parabolic fixtures. Used in place of parabolics, ES8P can provide 44% energy savings while meeting IESNA recommended illuminance levels. Ideal for retail, educational, and commercial applications requiring lighting power density as low as 0.6 watts/square foot.

**CONSTRUCTION** — Designed and optimized for use with CEE (Consortium for Energy Efficiency) qualified, high-lumen T8 lamps and energy-efficient electronic ballasts.

Highly reflective surfaces combine with efficient design to produce up to 86% photometric efficiency and a Luminaire Efficacy Rating (LER) of up to 86 using listed lamps and ballast.

Constructed to comply with New York City electric code. Made in USA.

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 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.

**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, CEE qualified, instant-start, ≤10% THD, universal voltage and sound rated A.

Optional program-start and step-dimming ballasts available.

**LISTINGS** — UL Listed.

**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.

**U.S. PATENT NO.:** 6,210,025; 6,231,213, additional patents pending.

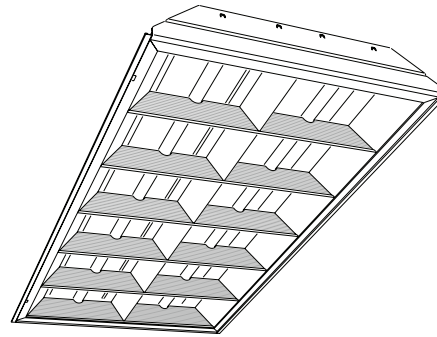
Note: Specifications subject to change without notice.

Catalog Number
Notes
Type



# ES8P 2'X4' NY

2 Lamps  
T8



### Specifications

Length: 48 (121.9)

Width: 24 (60.9)

Depth: 3-11/16 (9.4)

Weight: 26 lbs (11.7 kg)

All dimensions are inches (centimeters) unless otherwise indicated.

### ORDERING INFORMATION

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

**Example: 2ES8P 232 BILP L835HT8 NY3**

Series	Trim type	Number of lamps/wattage	Voltage	Ballast	Lamp <sup>2</sup>	Options
<b>2ES8P</b>	<b>(blank)</b> Lay-in grid	<b>232</b> 2-lamp, 32W T8 (48") Included.	<b>(blank)</b> MVOLT <sup>1</sup>	<b>BILP</b> IS, high efficiency, .78 bf (low) <b>BINP</b> IS, high efficiency, .88 bf (normal) BIHP IS, high efficiency, 1.20 bf (high) BSNP PS, step-dimming, high efficiency, .88 bf (normal)	<b>L835HT8</b> 3100 lumen, long life, 3500K L830HT8 3100 lumen, long life, 3000K <b>L841HT8</b> 3100 lumen, long life, 4100K	<b>EL</b> Emergency battery pack (nominal 300 lumens) <b>EL14</b> Emergency battery pack (nominal 1400 lumens) PWS90N1836 6' prewire, 3/8" dia., 18-gauge, 1 circuit <b>NY3</b> I.B.E.W. Local 3 union made

**Accessories:** Order as separate catalog number.

DGA 2x4 Drywall grid adaptor

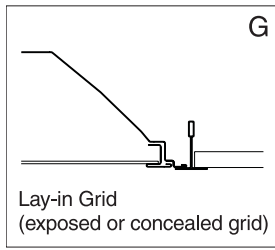
### Notes

1 MVOLT (120-277 volt).

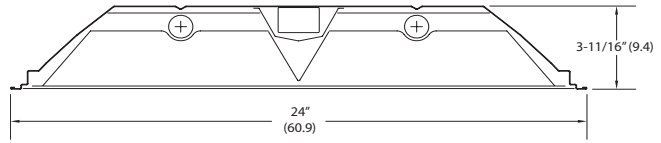
2 Required. All fixtures shipped with lamps installed.

# ES8P 2'x4' NY Premium High-Performance T8 Lighting

## MOUNTING DATA



## DIMENSIONS



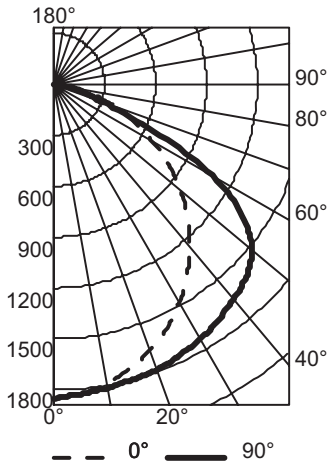
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### Notes

For hard-ceiling applications, order a drywall grid adaptor (DGA 2x4) as an accessory.

## PHOTOMETRICS

2ES8P 232, 3100 lumens per lamp, test no. LTL 16106



### Coefficients of Utilization

CP Summary	0°	90	pf pc pw	Coefficients of Utilization									Zonal Lumen Summary			
				80%			20%			50%			Zone	Lumens	% Lamp	% Fixture
				70%	50%	30%	50%	30%	10%	50%	30%	10%				
0°	1850	1850	0	102	102	102	99	99	99	95	95	95	0° - 30°	1441	23.2	27.2
5°	1833	1831	1	94	90	86	88	85	82	84	82	79	0° - 40°	2389	38.5	45.0
15°	1733	1800	2	85	78	73	77	72	67	74	69	66	0° - 60°	4375	70.6	82.5
25°	1581	1761	3	78	69	62	68	61	56	65	60	55	0° - 90°	5304	85.6	100.0
35°	1371	1693	4	71	61	54	60	53	48	58	52	47	90° - 180°	0	0.0	0.0
45°	1119	1606	5	65	54	47	53	46	41	52	45	41	0° - 180°	5304	85.6	100.0
55°	827	1360	6	60	49	41	48	41	36	47	40	35				
65°	522	653	7	56	44	37	44	36	31	42	36	31				
75°	233	185	8	52	40	33	40	33	28	39	32	28				
85°	56	33	9	48	37	30	36	30	25	35	29	25				
90	0	0	10	45	34	27	34	27	23	33	27	23				

Efficiency: 85.6%

### ENERGY AND LIGHT LEVEL COMPARISON

System	Light level	Input watts	Watts/SF	Watts saved	% Savings	\$ Savings per year	LER
Parabolic, (3) 2800 lumen T8 lamps .88 ballast factor	69	85	1.06	Base	Base	Base	65
ES8P, (2) 3100 lumen T8 lamps, .78 ballast factor	52	48	0.60	37	44%	\$11.84	86

Light level in footcandles is calculated based on 8x10 mounting centers 9 foot ceilings, 60 x 60 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. Luminaire Efficacy Rating (LER) is fixture lumen output divided by fixture input wattage.