

FEATURES & SPECIFICATIONS

INTENDED USE — ES8PHE provides a high-performance T8 (HPT8) energy-saving alternative to 3-lamp, 18-cell parabolic fixtures. Used in place of parabolics, ES8PHE 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 91% photometric efficiency and a Luminaire Efficacy Rating (LER) of up to 92 using listed lamps and ballast.

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. MIRO® reflectors enhance fixture performance.

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.

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

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

WARRANTY — 1-year limited warranty. Complete warranty terms located at www.acuitybrands.com/CustomerResources/Terms and conditions.aspx

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.

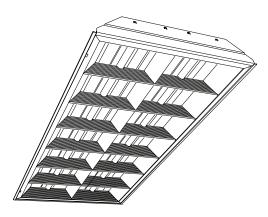
Note: Specifications subject to change without notice.

Catalog Number			
Notes			
Туре			

Premium High-Performance T8 Lighting

Example: 2ES8PHE 232 BINP L835HT8

2ES8PHE 2'X4'



2 Lamps

Specifications

Length: 48 (121.9)
Width: 24 (61.0)
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).

2ES8PHE			232									
Series	Trim type		Number of lamps/wattage		Voltage		Ballast		Lamp		Options4	
2ES8PHE	(blank) F	Lay-in grid Overlapping	232	2-lamp, 32W T8 (48")	(blank) 120	MV0LT ¹	BILP	IS, high efficiency, .78 bf (low)	L835HT8	3100 lumen, long life, 3500K	EL	Emergency battery pack (nominal 300 lumens) ⁵
		flanged			277		BINP	IS, high efficiency, .88 bf (normal)	L830HT8	3100 lumen, long life, 3000K	EL14	Emergency battery pack (nominal 1400 lumens) ⁵
					347		BIHP	IS, high efficiency, 1.20 bf (high)²	L841HT8	3100 lumen, long life, 4100K	PWS1836	6' prewire, 3/8" dia., 18-gauge, 1 circuit
							BSNP	PS, step-dimming, high efficiency,			JP16	Palletized, job wrapped, quantity 16
								.88 bf (normal) ³			CSA	Listed and labeled to comply with Canadian standards
											NOM	NOM Certified

Notes

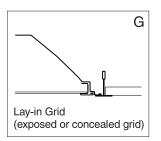
- 1 MVOLT standard for 120V 277V applications. 50 or 60 hz operation. Some options require voltage specified.
- $2\,\,$ CEE qualified ballast is not available in 347V.
- 3 Not available with 347V.
- 4 Other options available may increase fixture depth to 4-1/2". Consult factory if plenum space is a concern.
- 5 Ballast disconnect not standard with any EL option. Must specify BDP for inclusion with EL battery packs. UL Listed only. Consult factory for BDP CSA with EL option.

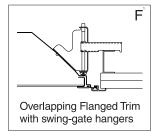
FLUORESCENT 2ES8PHE-2x4

2ES8PHE 2'x4' Premium High-Performance T8 Lighting

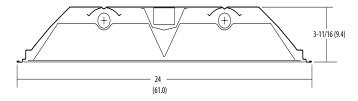
MOUNTING DATA

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





DIMENSIONS

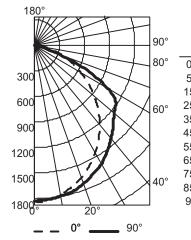


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1 Recommended rough-in dimensions for F-trim fixtures 24"x48". (Tolerance is +1/4"-0".) Swing-gate range 1-3/16" to 3-15/16". Swing-gate span 23-3/8" to 26-11/16". Fixture swing-gate points require additional 9/16" over nominal fixture height.

PHOTOMETRICS

2ES8PHE 232, 2725 lumens per lamp, test no. LTL19366



Coefficients of Utilization 200/

			pt				2	20%					
CP Summary			рс	80%				70%		50%			
	0°	90	pw	70%	50%	30%	50%	30%	10%	50%	30%	10%	
0°	1829	1829	0	108	108	108	106	106	106	101	101	101	
5°	1827	1817	1	100	95	92	93	90	87	89	87	84	
15°	1723	1775	2	91	84	78	82	76	72	79	74	70	
25°	1556	1667	3	83	73	66	72	65	60	69	64	59	
35°	1338	1518	~ ⁴	76	65	57	64	57	51	62	55	50	
15°	1080	1332	Ö 5	70	58	50	57	50	44	55	49	43	
55°	788	1190	6	64	52	44	52	44	38	50	43	38	
35°	504	692	7	60	47	40	47	39	34	45	39	34	
75°	231	151	8	56	43	36	43	35	30	41	35	30	
35°	61	35	9	52	40	32	39	32	27	38	32	27	
90	2	0	10	49	37	30	36	29	25	35	29	25	

0° - 90° 4959 91.0 100.0 90° - 180° 0 0.0 0.0 0° - 180° 4959 91.0 100.0

Zonal Lumen Summary

1405

2293

4061

Zone

0° - 30°

0° - 40°

0° - 60°

Lumens % Lamp % Fixture

25.8

42.1

74.5

28.3

46.2

81.9

Efficiency: 91.0%

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.



2ES8PHE-2x4