

FEATURES & SPECIFICATIONS

INTENDED USE — The ES8R is an ideal solution for relighting a parabolic installation when a one-for-one upgrade is desired. ES8R is designed for installation into host **2'x4' parabolic fixtures that are a minimum of 4-3/8" deep**. ES8R is not specifically designed for lensed troffer upgrades or lensed troffer with parabolic renovator kit installations. Ideal for retail, educational, commercial and other general lighting applications. ES8R delivers more balanced light levels vertically and horizontally while eliminating the "cave effect" produced by traditional parabolic fixtures. ES8R provides substantial energy savings of up to 45% compared to a three-lamp T8 electronic ballast system and up to 56% savings compared to a three-lamp T12 ES magnetic system.

CONSTRUCTION — The ES8R assembly consists of six primary components plus hardware.

Universal end brackets containing the prewired ballast and sockets are constructed of 20-gauge painted steel and are secured to host fixture with TEK screws. A splice box is provided to enclose electrical connections and a ballast disconnect plug is installed standard.

The reflector system is constructed from highly reflective white paint and easily attaches to the end brackets with 1/4 turn fasteners.

Robust design, precision-tooling and automated assembly combine to create the industry's strongest louver. Finish: Louver assembly painted after fabrication with low gloss, high reflectivity polyester powder coat. Reflectors finished in highly reflective computer controlled gloss white paint.

OPTICS — Mechanical shielding is provided with angled length blades and linear faceted cross baffles. Contoured housing efficiently directs light downward. Lamp cut-outs maximize shielding while minimizing overall assembly depth to provide consistent performance in any host fixture application. Vertical light levels are improved providing a balanced amount of light across all surfaces.

ELECTRICAL — Standard ballast is high-efficiency, CEE (Consortium for Energy Efficiency) qualified, instant-start, <10% THD, universal voltage and sound rated A. Suggested lamps are high lumen, long-life Super T8 lamps which contribute to maximizing system performance. Optional program start and step-dimming ballasts are available as well as several ballast factor options.

INSTALLATION — Louver assembly hinges from either side for access to lamps. For ballast access, continue process by removing 1/4 turn fasteners and reflectors.

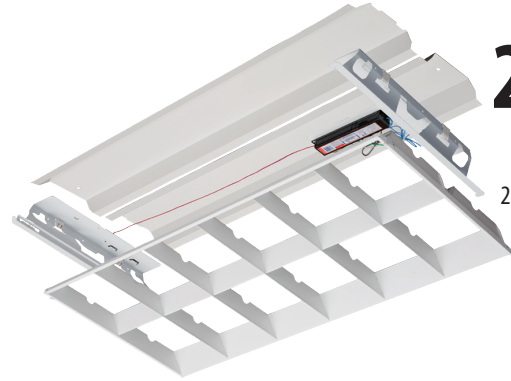
LISTING — UL Listed/C-UL Classified. Labeled for use in both static and air-handling fixtures. Does not impact existing UL listing. NYC approved (#49192).

WARRANTY — Fixture guaranteed for one year against mechanical defects in manufacture. Lamp and ballast system warranty for 36 months for lamp, 60 months for ballast by lamp and ballast manufacturer.

Protected by US Patent Nos. 6,210,025; 6,231,213. Additional patents pending.

Specifications subject to change without notice.

Catalog Number
Notes
Type



2ES8R

2' X 4' Relight Assembly
2 Lamp T8

Specifications

Intended to be installed in most existing parabolic recessed fixtures (T-grid installation).

Weight: 21 lbs.

ORDERING INFORMATION

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

Example: 2ES8R 232 BILP

Series	Number of lamps/wattage	Voltage	Ballast	Options
2ES8R	232 2-lamp, 32W T8 (48") ¹	(blank) MVOLT ² 347 347V	BILP IS, high efficiency, .78 bf (low) BINP IS, high efficiency, .88 bf (normal) BIHP IS, high efficiency, 1.20 bf (high) ³ BSNP PS, step-dimming, high efficiency, .88 bf (normal) ⁴	JP18 Job pack 18

Accessories: Order as separate catalog number.	
RRC4	Side reveal cover (pair), available in sets of five (pairs) or 25 (pairs)

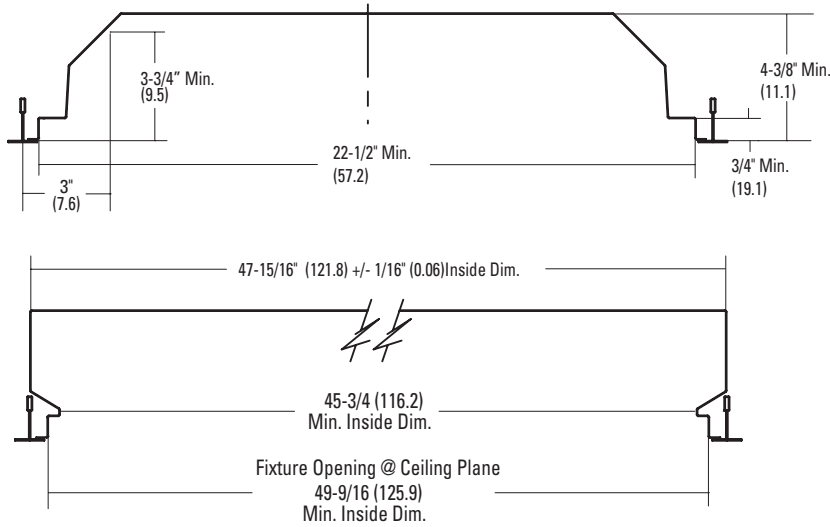
Notes

- Lamps not included. Must be ordered separately.
- MVOLT standard for 120V-277V applications.
- Not available in high-efficiency 347V.
- Not available in 347V.

2ES8R Relight Assembly

FIT COMPATIBILITY

Relight assemblies are designed to fit most recessed fixtures mounted in T-grid installations. For surface mounted fixtures or for fixtures mounted in ceiling types other than T-grids, consult factory before ordering.



Relight assemblies also will upgrade many existing "deep" lensed troffers conforming to these dimensions.

Relight assemblies will not upgrade "contractor-grade" lensed troffers or lensed troffers previously upgraded with parabolic renovator kits. In addition to conforming to the dimensions above, Lithonia Lighting recommends a trial installation prior to purchasing project quantities.

ENERGY AND LIGHT LEVEL COMPARISON

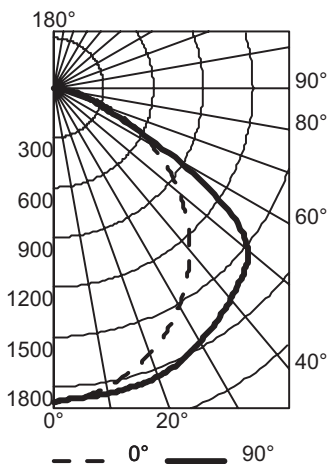
System	Light level	Input watts	Watts/SF	Watts saved	% Savings	\$ Savings per year	LER
Parabolic, (3) 2800 lumen T8 lamps .88 ballast factor	69	88	1.1	Base	Base	Base	65
ES8P, (2) 3100 lumen T8 lamps, .78 ballast factor	51	48	0.60	40	45%	\$12.80	85

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.

PHOTOMETRICS

2ES8R 232, 3100 lumens per lamp, Test No. LTL 16155



Coefficients of Utilization

CP Summary	0°	90	pf	Coefficients of Utilization									Zonal Lumen Summary				
				pc	80%			20%			50%			Zone	Lumens	% Lamp	% Fixture
					pw	70%	50%	30%	50%	30%	10%	50%	30%				
0°	1891	1891	0	101	101	101	99	99	99	94	94	94	0° - 30°	1483	23.9	28.1	
5°	1874	1874	1	93	89	86	87	84	82	84	81	79	0° - 40°	2454	39.6	46.6	
15°	1772	1863	2	85	78	73	77	72	68	74	70	66	0° - 60°	4435	71.5	84.1	
25°	1616	1816	3	78	69	62	68	62	57	65	60	56	0° - 90°	5271	85.0	100.0	
35°	1399	1715	4	71	61	54	60	53	48	58	52	48	90° - 180°	0	0.0	0.0	
45°	1138	1606	5	65	55	47	54	47	42	52	46	41	0° - 180°	5271	85.0	100.0	
55°	839	1284	6	60	49	42	48	41	36	47	41	36					
65°	524	439	7	56	45	37	44	37	32	43	36	32					
75°	229	183	8	52	41	34	40	33	29	39	33	28					
85°	55	31	9	49	37	30	37	30	26	36	30	25					
90	0	0	10	46	34	28	34	28	23	33	27	23					

Efficiency: 85.0%