

High-Efficiency Electronic Ballasts

Low and Standard 2, 3, and 4 Lamp Models

Revolutionizing the lighting industry with
energy-saving, hassle-free technology...
Howard's High-Efficiency Ballasts



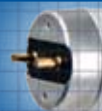
HE BALLASTS

**Best in Industry
F28T8 Performance!**

Backed by Howard's complete system warranty

HOWARDTM
LIGHTING PRODUCTS

Lighting **for life.**



HOWARDTM
F28T8/SC/HE
20 WATT 3500 K 85 CRI
PRINCIPAL OFFICE: E.C.C.

Visit us online at HowardLightingProducts.com or call us at 800.956.3456.

Revolutionizing lighting with high-efficiency technology

Howard Lighting Products has once again revolutionized the lighting industry with our new High-Efficiency (HE) Ballasts. Designed to conserve energy, to be more adaptable, and to deliver optimal performance, we custom-manufacture them to bring you high-efficiency, multi-voltage ballasts for all applications. When your customers ask for the best, think Howard Lighting Products – we're your one-stop-shop for all of your lighting product needs.

High-Efficiency ballasts deliver greater savings

When you consider that energy costs are approximately 80% of the overall cost of light, obtaining the right ballast at the right price is critical. However, by simply switching to our high-efficiency ballasts, your customers could save up to 45% in energy costs as our ballasts produce greater energy savings, provide a more efficient product, and are easier to maintain when compared with standard ballasts.



Hassle-free maintenance and upkeep

In designing our ballasts, one of our key requirements was to develop a product that performed and was virtually hassle-free to maintain. With fully parallel lamp operation, if one lamp fails, all of the others in the fixture remain in full function making maintenance minimal. And the anti-striation control on our ballasts eliminates the maintenance issues caused by striating lamps. The overall result is exactly what you've grown to expect from Howard – another one of our best-in-class ballasts that can significantly reduce the maintenance frustration your customers may be experiencing from the competition.

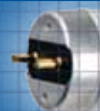
Tested and proven

With Howard Lighting Products, you can rest assured that we won't put our name on it until it surpasses our high standards for quality, value, and performance. For that reason, every ballast manufactured at Howard is tested and proven beyond UL requirements before it is shipped to you. In fact, we thoroughly test each product so that you can expect a top-quality product straight from the box. Plus, all of our ballasts are backed by a 5-year limited warranty and carry a complete system warranty when your customers use Howard T8 lamps (60 months for ballasts and 30 months for lamps).



HOWARD[™]
LIGHTING PRODUCTS

Lighting **for life.**



HOWARD
LIGHTING PRODUCTS
P20TB03500
70 WATT 3500 K 85 CRI
AMERICAN MANUFACTURE

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Ordering Guide and System Wattage

Howard's HE ballasts and T8 lamps are designed to give your customers the optimal performance they expect at a price they will love. Our HE ballasts are available in low and standard 2, 3, and 4 lamp models.

Starting Ballast Factor	# of Lamps	Howard HE Ballasts		F32T8	F32T8/ES (30W)	F32T8/ES (28W)	Units Per Case
		Catalog #	Input Voltage	Input Watts	Input Watts	Input Watts	
Instant Start	Low	2 EPL2/32IS/MV/SC/HE	Multi-Volt 120 277	48 48	46 45	41 41	12
		3 EPL3/32IS/MV/SC/HE	Multi-Volt 120 277	72 72	69 68	62 62	12
		4 EPL4/32IS/MV/SC/HE	Multi-Volt 120 277	95 94	91 90	82 81	12
	Standard	2 EP2/32IS/MV/SC/HE	Multi-Volt 120 277	54 53	52 51	47 46	12
		3 EP3/32IS/MV/SC/HE	Multi-Volt 120 277	82 80	77 76	71 69	12
		4 EP4/32IS/MV/SC/HE	Multi-Volt 120 277	109 107	102 100	94 92	12
	High	2 EPH2/32IS/MV/SC/HE	Multi-Volt 120 277	73 72	69 68	64 64	12
		3 EPH3/32IS/MV/SC/HE	Multi-Volt 120 277	110 107	104 101	97 94	12

System Performance Comparison

When compared with conventional ballasts and lamp systems, Howard Lighting's HE ballasts provide a more efficient product with greater energy savings.

Lamps 2-lamp system performance 4' fluorescent	Magnetic Ballasts	
	M2/40RS-120	
F40T12	Watts:	87
	BF:	0.92
	Initial Lumens:	5795
	SLPW:	67
	Mean Lumens:	4930
F34T12/ES	Watts:	74
	BF:	0.88
	Initial Lumens:	4660
	SLPW:	63
	Mean Lumens:	3960

Note: SLPW refers to system lumens per watt

Lamps 2-lamp system performance 4' fluorescent	Electronic Ballasts			
	EPL2/32IS/MV/SC/HE		EP2/32IS/MV/SC/HE	
F32T8/841/HL/ECO	Watts:	48	Watts:	54
	BF:	0.77	BF:	0.87
	Initial Lumens:	4774	Initial Lumens:	5394
	SLPW:	99	SLPW:	100
	Mean Lumens:	4543	Mean Lumens:	5133
F30T8/841/ES/ECO	Watts:	46	Watts:	52
	BF:	0.77	BF:	0.87
	Initial Lumens:	4389	Initial Lumens:	4959
	SLPW:	95	SLPW:	95
	Mean Lumens:	4127	Mean Lumens:	4663
F28T8/841/ES/ECO	Watts:	41	Watts:	47
	BF:	0.77	BF:	0.87
	Initial Lumens:	4197	Initial Lumens:	4742
	SLPW:	102	SLPW:	101
	Mean Lumens:	3942	Mean Lumens:	4454

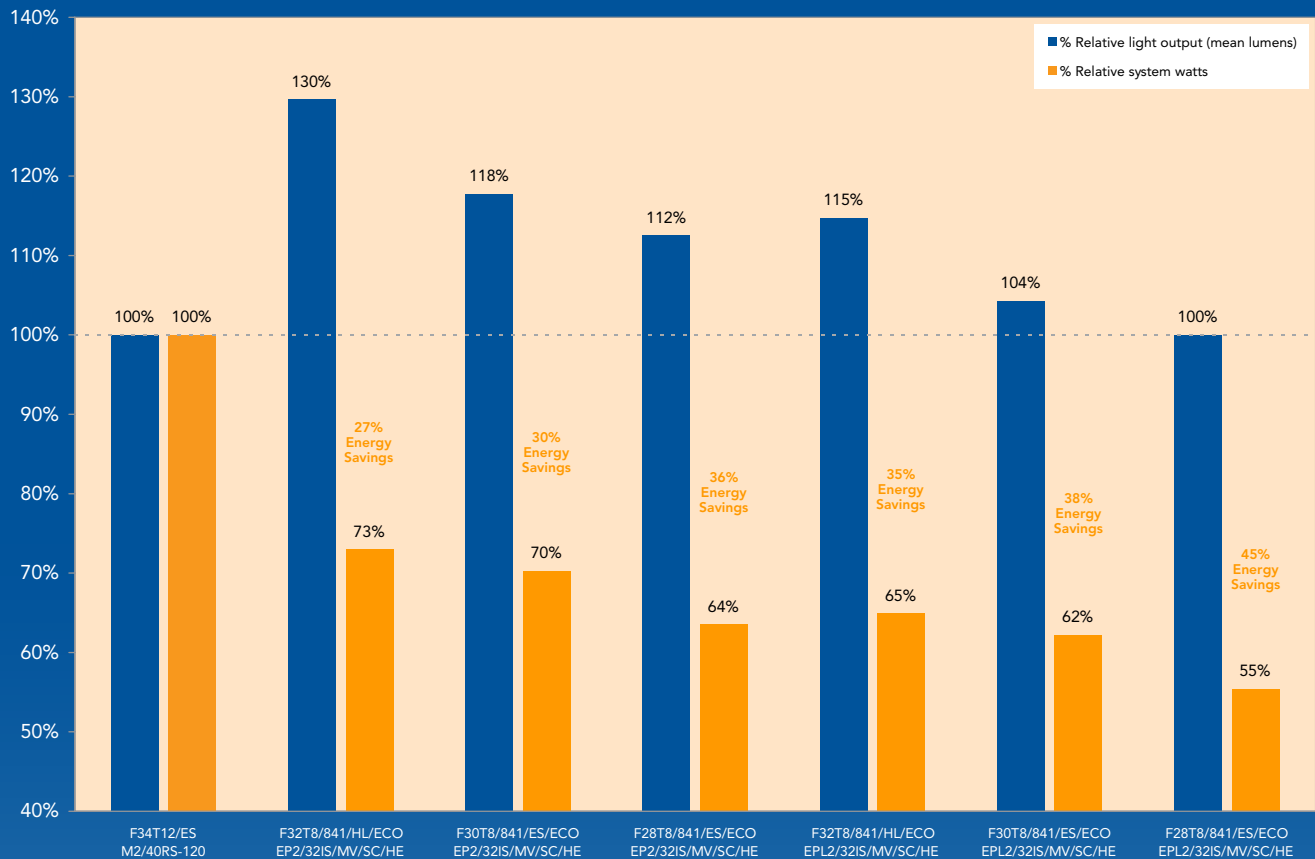


Lighting **for** life.

HOWARDTM
LIGHTING PRODUCTS

Help your customers maximize their savings by slashing energy costs!

Howard's HE ballasts enable your customers to experience maximum light output combined with minimum power usage while saving up to 45% in energy costs.



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