

Dear Customer,

In accordance with the new Energy Star Luminaire program requirements version 1.1, Universal Lighting Technologies has tested its products to the new standards. This testing covers the following parameters of the ballast:

- Input Power
- Ballast Factor
- Power Factor
- Current Crest Factor
- Lamp Start Time
- System Run-Up Time
- Maximum Case Temperature
- Ballast Hotspot Location
- Minimum Starting Temperature
- Dimmable
- Ballast Frequency
- Rated Life
- Noise Rating
- End of Life Protection
- Transient Protection
- Electromagnetic and Radio Interference
- RoHS

The attached spreadsheet shows the products that have been tested and the results for your convenience. These products have also been verified by a third part laboratory in accordance with the new Energy Star standard and uploaded to the Energy Star Certified Subcomponent Database which can be found at www.energystar.gov/index.cfm?c=lighting.pr_lighting_subcomponents . This listing will be continually updated as additional ballasts are tested and new models are released.

Sincerely,



Edward Klonowski
Product Manager
Universal Lighting Technologies

Ballast Model Number	Tested Voltage	Compatible Lamp Technology	Compatible Generic Lamp Designation	Maximum Number of Lamps Tested Per Ballast	Input Power	Ballast Factor	Power Factor	Ballast Current Crest Factor	Minimum Required Lumens per Watt	Minimum Required Initial Lamp Lumens (Calculated)	Lamp Start Time	System Run-up Time	Maximum Recommended Ballast Case Temperature During Normal Operation Inside a Fixture	Ballast Hotspot Location	Minimum Starting Temperature?	Dimmable?	If Yes, Select Dimming Mechanism	Ballast Frequency	Rated Life	Noise Rating	Meets End of Life Protection Testing Requirement (For use in RLF V4.2 Specification)	Passed Transient Protection Testing Requirements?	Meets Electrical Safety Requirements as tested by an OSHA NRTL?	Ballast has been tested by an FCC listed laboratory and meets Electromagnetic and Radio Frequency Interference Requirements?	Meets Lighting Toxics Reduction Requirements?
	# in V	Fluorescent, Metal Halide, Ceramic Metal Halide, High Pressure Sodium		#	# in W	#	#	#	# in lm/W	# in lm	# in ms	# in sec	# in °C		# in °C	Yes, No	Continuous dimming, Step dimming	# in kHz	# in hrs		Yes, No, N/A	Yes, No	Yes, No	Yes, No, N/A	Yes, No
B432H20RC-A	120	Fluorescent	F32T8	4	113.7	0.771	0.996	1.55	65	7390.5	34.92	0	75	tc mark on labe	-18	No		40.72	38500	A	No	Yes	Yes	Yes	Yes
B432H20RC-A	120	Fluorescent	F17T8	4	60.6	1.44	0.984	1.68	65	39.39	20.51	0	75	tc mark on labe	-18	No		40.17	38500	A	No	Yes	Yes	Yes	Yes
B134R120M-A	120	Fluorescent	F40T12ES	1	36.69	2.574	0.954	1.58	65	2384.85	10.39	0	75	2.19" from the right	16	No		43.62	26280	A	No	Yes	Yes	Yes	Yes
B432H20RES-A	120	Fluorescent	F32T8	4	110.93	0.83	0.724	1.64	65	7210.5	43.88	0	75	tc mark on labe	-18	No		45.36	26280	A	No	Yes	Yes	Yes	Yes
B232H120RES-A	120	Fluorescent	F32T8	2	56.89	0.85	0.662	1.63	65	3697.85	26.13	0	75	tc mark on labe	-18	No		45.25	26280	A	No	Yes	Yes	Yes	Yes
B232H120RES-A	120	Fluorescent	F17T8	2	30.64	0.89	0.62	1.63	65	1991.6	19.62	0	75	0.76" from the top	-18	No		44.38	26280	A	No	Yes	Yes	Yes	Yes
B232H120RC-B	120	Fluorescent	F32T8	2	59.7	0.88	1	1.5	65		4.00	1	70	tc mark on labe	-18	No		45	37300	A	No	Yes	Yes	Yes	Yes