

NEMA/ALA BALLAST MATRIX

Ballast Manufacturer Name:

Advance

Updated:

November 28, 2007

Ballasts listed in this table meet the ballast-controlled performance requirements in the ENERGY STAR Program Requirements for Residential Light Fixtures, version 4.0. The fixture manufacturer can use data presented below when completing and submitting an ENERGY STAR Qualified Product Information (QPI) form to apply for ENERGY STAR qualification. The fixture manufacturer is responsible to make sure selected lamp/ballast platforms meet all the required performance characteristics, and all required data not presented in this matrix (such as fixture safety documentation) is submitted to Energy Star with the QPI form.

Generic Lamp Designation	Number of Lamps Per Ballast	Ballast Model Number	Minimum Required Initial Lamp Lumens ¹	Minimum Required Lumens Per Watt	Input Power (Watts)	Ballast Factor	Lamp Start Time (ms)	Power Factor	Lamp Current Crest Factor	Ballast Hot Spot Location ²	Maximum Recommended Ballast Case Temp. ³ (°C)	Electromagnetic and Radio Frequency Interference ⁴ (Meets FCC Reqs.?)	Ballast Frequency (kHz)	Transient Protection ⁵ (Meets Protection Reqs.?)	End of Life (EOL) Protection ⁶ (Yes or N/A)	Max. Number of Lamps Shutdown at EOL	Dimming-Capable ⁷ (Cont., 3-Way, No)	Safety Listing for Ballast (Yes/No)	Uses Line Voltage Socket Standard Design ⁸ ? (Yes/No)
CFQ13W/G24q	1	ICF-2S13-H1-LD-QS	800	50	16	1	< 1000	0.96	1.6	Location marked on ballast label	85	Yes @ 120 volt input only	44	Yes	Yes	1	No	Yes	No
CFQ13W/G24q	2	ICF-2S13-H1-LD-QS	725	50	29	1	< 1000	0.96	1.6	Location marked on ballast label	85	Yes @ 120 volt input only	44	Yes	Yes	2	No	Yes	No
CFTR13W/GX24q	1	ICF-2S13-H1-LD-QS	800	50	16	1	< 1000	0.96	1.6	Location marked on ballast label	85	Yes @ 120 volt input only	44	Yes	Yes	1	No	Yes	No
CFTR13W/GX24q	2	ICF-2S13-H1-LD-QS	725	50	29	1	< 1000	0.96	1.6	Location marked on ballast label	85	Yes @ 120 volt input only	44	Yes	Yes	2	No	Yes	No
CFQ13W/G24q	1	ICF-2S13-M1-BS-QS	800	50	16	1	< 1000	0.96	1.6	Location marked on ballast label	85	Yes @ 120 volt input only	44	Yes	Yes	1	No	Yes	No
CFQ13W/G24q	2	ICF-2S13-M1-BS-QS	725	50	29	1	< 1000	0.96	1.6	Location marked on ballast label	85	Yes @ 120 volt input only	44	Yes	Yes	2	No	Yes	No
CFTR13W/GX24q	1	ICF-2S13-M1-BS-QS	800	50	16	1	< 1000	0.96	1.6	Location marked on ballast label	85	Yes @ 120 volt input only	44	Yes	Yes	1	No	Yes	No
CFTR13W/GX24q	2	ICF-2S13-M1-BS-QS	725	50	29	1	< 1000	0.96	1.6	Location marked on ballast label	85	Yes @ 120 volt input only	44	Yes	Yes	2	No	Yes	No
CFQ13W/G24q	1	ICF-2S13-M1-LS-QS	800	50	16	1	< 1000	0.96	1.6	Location marked on ballast label	85	Yes @ 120 volt input only	44	Yes	Yes	1	No	Yes	No
CFQ13W/G24q	2	ICF-2S13-M1-LS-QS	725	50	29	1	< 1000	0.96	1.6	Location marked on ballast label	85	Yes @ 120 volt input only	44	Yes	Yes	2	No	Yes	No
CFTR13W/GX24q	1	ICF-2S13-M1-LS-QS	800	50	16	1	< 1000	0.96	1.6	Location marked on ballast label	85	Yes @ 120 volt input only	44	Yes	Yes	1	No	Yes	No
CFTR13W/GX24q	2	ICF-2S13-M1-LS-QS	725	50	29	1	< 1000	0.96	1.6	Location marked on ballast label	85	Yes @ 120 volt input only	44	Yes	Yes	2	No	Yes	No
CFQ18W/G24q	1	ICF-2S18-H1-LD-QS	950	50	19	1	< 1000	0.97	1.6	Location marked on ballast label	85	Yes @ 120 volt input only	44	Yes	Yes	1	No	Yes	No
CFQ18W/G24q	2	ICF-2S18-H1-LD-QS	1105	60	35	0.95	< 1000	0.97	1.6	Location marked on ballast label	85	Yes @ 120 volt input only	44	Yes	Yes	2	No	Yes	No
CFTR18W/GX24q	1	ICF-2S18-H1-LD-QS	952	50	20	1.05	< 1000	0.97	1.6	Location marked on ballast label	85	Yes @ 120 volt input only	44	Yes	Yes	1	No	Yes	No
CFTR18W/GX24q	2	ICF-2S18-H1-LD-QS	1114	60	39	1.05	< 1000	0.98	1.6	Location marked on ballast label	85	Yes @ 120 volt input only	44	Yes	Yes	2	No	Yes	No

CFQ18W/G24q	1	ICF-2S18-M1-BS-QS	950	50	19	1.0	< 1000	0.97	1.6	Location marked on ballast label	85	Yes @ 120 volt input only	44	Yes	Yes	1	No	Yes	No
CFQ18W/G24q	2	ICF-2S18-M1-BS-QS	1105	60	35	1.0	< 1000	0.97	1.6	Location marked on ballast label	85	Yes @ 120 volt input only	44	Yes	Yes	2	No	Yes	No
CFTR18W/GX24q	1	ICF-2S18-M1-BS-QS	952	50	20	1.1	< 1000	0.97	1.6	Location marked on ballast label	85	Yes @ 120 volt input only	44	Yes	Yes	1	No	Yes	No
CFTR18W/GX24q	2	ICF-2S18-M1-BS-QS	1114	60	39	1.1	< 1000	0.98	1.6	Location marked on ballast label	85	Yes @ 120 volt input only	44	Yes	Yes	2	No	Yes	No
CFQ18W/G24q	1	ICF-2S18-M1-LS-QS	950	50	19	1	< 1000	0.97	1.6	Location marked on ballast label	85	Yes @ 120 volt input only	44	Yes	Yes	1	No	Yes	No
CFQ18W/G24q	2	ICF-2S18-M1-LS-QS	1105	60	35	0.95	< 1000	0.97	1.6	Location marked on ballast label	85	Yes @ 120 volt input only	44	Yes	Yes	2	No	Yes	No
CFTR18W/GX24q	1	ICF-2S18-M1-LS-QS	952	50	20	1.05	< 1000	0.97	1.6	Location marked on ballast label	85	Yes @ 120 volt input only	44	Yes	Yes	1	No	Yes	No
CFTR18W/GX24q	2	ICF-2S18-M1-LS-QS	1114	60	39	1.05	< 1000	0.98	1.6	Location marked on ballast label	85	Yes @ 120 volt input only	44	Yes	Yes	2	No	Yes	No
CFQ26WGX24Q	1	ICF-2S26-H1-LD-QS	1227	50	27	1.1	< 1000	0.96	1.6	Location marked on ballast label	85	Yes @ 120 volt input only	44	Yes	Yes	1	No	Yes	No
CFQ26WGX24Q	2	ICF-2S26-H1-LD-QS	1275	50	51	1	< 1000	0.96	1.6	Location marked on ballast label	85	Yes @ 120 volt input only	44	Yes	Yes	2	No	Yes	No
CFTR26WGX24Q	1	ICF-2S26-H1-LD-QS	1318	50	29	1.1	< 1000	0.96	1.6	Location marked on ballast label	85	Yes @ 120 volt input only	44	Yes	Yes	1	No	Yes	No
CFTR26WGX24Q	2	ICF-2S26-H1-LD-QS	1620	60	54	1	< 1000	0.96	1.6	Location marked on ballast label	85	Yes @ 120 volt input only	44	Yes	Yes	2	No	Yes	No
CFTR32W/GX24q	1	ICF-2S26-H1-LD-QS	2204	60	36	0.98	< 1000	0.96	1.6	Location marked on ballast label	85	Yes @ 120 volt input only	44	Yes	Yes	1	No	Yes	No
CFTR42W/GX24q	1	ICF-2S26-H1-LD-QS	2816	60	46	0.98	< 1000	0.98	1.6	Location marked on ballast label	85	Yes @ 120 volt input only	44	Yes	Yes	1	No	Yes	No
CFQ26WGX24Q	1	ICF-2S26-M1-BS-QS	1227	50	27	1.1	< 1000	0.96	1.6	Location marked on ballast label	85	Yes @ 120 volt input only	44	Yes	Yes	1	No	Yes	No
CFQ26WGX24Q	2	ICF-2S26-M1-BS-QS	1530	60	51	1	< 1000	0.96	1.6	Location marked on ballast label	85	Yes @ 120 volt input only	44	Yes	Yes	2	No	Yes	No
CFTR26WGX24Q	1	ICF-2S26-M1-BS-QS	1318	50	29	1.1	< 1000	0.96	1.6	Location marked on ballast label	85	Yes @ 120 volt input only	44	Yes	Yes	1	No	Yes	No
CFTR26WGX24Q	2	ICF-2S26-M1-BS-QS	1620	60	54	1	< 1000	0.96	1.6	Location marked on ballast label	85	Yes @ 120 volt input only	44	Yes	Yes	2	No	Yes	No
CFTR32W/GX24q	1	ICF-2S26-M1-BS-QS	2204	60	36	0.98	< 1000	0.96	1.6	Location marked on ballast label	85	Yes @ 120 volt input only	44	Yes	Yes	1	No	Yes	No
CFTR42W/GX24q	1	ICF-2S26-M1-BS-QS	2816	60	46	0.98	< 1000	0.98	1.6	Location marked on ballast label	85	Yes @ 120 volt input only	44	Yes	Yes	1	No	Yes	No

CFQ26WXG24Q	1	ICF-2S26-M1-LS-QS	1227	50	27	1.1	< 1000	0.96	1.6	Location marked on ballast label	85	Yes @ 120 volt input only	44	Yes	Yes	1	No	Yes	No
CFQ26WXG24Q	2	ICF-2S26-M1-LS-QS	1530	60	51	1	< 1000	0.96	1.6	Location marked on ballast label	85	Yes @ 120 volt input only	44	Yes	Yes	2	No	Yes	No
CFTR26WXG24Q	1	ICF-2S26-M1-LS-QS	1318	50	29	1.1	< 1000	0.96	1.6	Location marked on ballast label	85	Yes @ 120 volt input only	44	Yes	Yes	1	No	Yes	No
CFTR26WXG24Q	2	ICF-2S26-M1-LS-QS	1620	60	54	1	< 1000	0.96	1.6	Location marked on ballast label	85	Yes @ 120 volt input only	44	Yes	Yes	2	No	Yes	No
CFTR32W/GX24q	1	ICF-2S26-M1-LS-QS	2204	60	36	0.98	< 1000	0.96	1.6	Location marked on ballast label	85	Yes @ 120 volt input only	44	Yes	Yes	1	No	Yes	No
CFTR42W/GX24q	1	ICF-2S26-M1-LS-QS	2816	60	46	0.98	< 1000	0.98	1.6	Location marked on ballast label	85	Yes @ 120 volt input only	44	Yes	Yes	1	No	Yes	No
CFQ13W/G24q	1	RCF-2S13-H1-LD-QS	800	50	16	1	< 1000	0.96	1.6	Location marked on ballast label	85	Yes	44	Yes	Yes	1	No	Yes	No
CFQ13W/G24q	2	RCF-2S13-H1-LD-QS	725	50	29	1	< 1000	0.96	1.6	Location marked on ballast label	85	Yes	44	Yes	Yes	2	No	Yes	No
CFTR13W/GX24q	1	RCF-2S13-H1-LD-QS	800	50	16	1	< 1000	0.96	1.6	Location marked on ballast label	85	Yes	44	Yes	Yes	1	No	Yes	No
CFTR13W/GX24q	2	RCF-2S13-H1-LD-QS	725	50	29	1	< 1000	0.96	1.6	Location marked on ballast label	85	Yes	44	Yes	Yes	2	No	Yes	No
CFQ13W/G24q	1	RCF-2S13-M1-BS-QS	800	50	16	1	< 1000	0.96	1.6	Location marked on ballast label	85	Yes	44	Yes	Yes	1	No	Yes	No
CFQ13W/G24q	2	RCF-2S13-M1-BS-QS	725	50	29	1	< 1000	0.96	1.6	Location marked on ballast label	85	Yes	44	Yes	Yes	2	No	Yes	No
CFTR13W/GX24q	1	RCF-2S13-M1-BS-QS	800	50	16	1	< 1000	0.96	1.6	Location marked on ballast label	85	Yes	44	Yes	Yes	1	No	Yes	No
CFTR13W/GX24q	2	RCF-2S13-M1-BS-QS	725	50	29	1	< 1000	0.96	1.6	Location marked on ballast label	85	Yes	44	Yes	Yes	2	No	Yes	No
CFQ13W/G24q	1	RCF-2S13-M1-LS-QS	800	50	16	1	< 1000	0.96	1.6	Location marked on ballast label	85	Yes	44	Yes	Yes	1	No	Yes	No
CFQ13W/G24q	2	RCF-2S13-M1-LS-QS	725	50	29	1	< 1000	0.96	1.6	Location marked on ballast label	85	Yes	44	Yes	Yes	2	No	Yes	No
CFTR13W/GX24q	1	RCF-2S13-M1-LS-QS	800	50	16	1	< 1000	0.96	1.6	Location marked on ballast label	85	Yes	44	Yes	Yes	1	No	Yes	No
CFTR13W/GX24q	2	RCF-2S13-M1-LS-QS	725	50	29	1	< 1000	0.96	1.6	Location marked on ballast label	85	Yes	44	Yes	Yes	2	No	Yes	No
CFQ18W/G24q	1	RCF-2S18-H1-LD-QS	950	50	19	1	< 1000	0.97	1.6	Location marked on ballast label	85	Yes	44	Yes	Yes	1	No	Yes	No
CFQ18W/G24q	2	RCF-2S18-H1-LD-QS	1105	60	35	0.95	< 1000	0.97	1.6	Location marked on ballast label	85	Yes	44	Yes	Yes	2	No	Yes	No

CFTR18W/GX24q	1	RCF-2S18-H1-LD-QS	952	50	20	1.05	< 1000	0.97	1.6	Location marked on ballast label	85	Yes	44	Yes	Yes	1	No	Yes	No
CFTR18W/GX24q	2	RCF-2S18-H1-LD-QS	1114	60	39	1.05	< 1000	0.98	1.6	Location marked on ballast label	85	Yes	44	Yes	Yes	2	No	Yes	No
CFQ18W/G24q	1	RCF-2S18-M1-BS-QS	950	50	19	1.0	< 1000	0.97	1.6	Location marked on ballast label	85	Yes	44	Yes	Yes	1	No	Yes	No
CFQ18W/G24q	2	RCF-2S18-M1-BS-QS	1105	60	35	1.0	< 1000	0.97	1.6	Location marked on ballast label	85	Yes	44	Yes	Yes	2	No	Yes	No
CFTR18W/GX24q	1	RCF-2S18-M1-BS-QS	952	50	20	1.1	< 1000	0.97	1.6	Location marked on ballast label	85	Yes	44	Yes	Yes	1	No	Yes	No
CFTR18W/GX24q	2	RCF-2S18-M1-BS-QS	1114	60	39	1.1	< 1000	0.98	1.6	Location marked on ballast label	85	Yes	44	Yes	Yes	2	No	Yes	No
CFQ18W/G24q	1	RCF-2S18-M1-LS-QS	950	50	19	1	< 1000	0.97	1.6	Location marked on ballast label	85	Yes	44	Yes	Yes	1	No	Yes	No
CFQ18W/G24q	2	RCF-2S18-M1-LS-QS	1105	60	35	0.95	< 1000	0.97	1.6	Location marked on ballast label	85	Yes	44	Yes	Yes	2	No	Yes	No
CFTR18W/GX24q	1	RCF-2S18-M1-LS-QS	952	50	20	1.05	< 1000	0.97	1.6	Location marked on ballast label	85	Yes	44	Yes	Yes	1	No	Yes	No
CFTR18W/GX24q	2	RCF-2S18-M1-LS-QS	1114	60	39	1.05	< 1000	0.98	1.6	Location marked on ballast label	85	Yes	44	Yes	Yes	2	No	Yes	No
CFQ26WG24Q	1	RCF-2S26-H1-LD-QS	1227	50	27	1.1	< 1000	0.96	1.6	Location marked on ballast label	85	Yes	44	Yes	Yes	1	No	Yes	No
CFQ26WG24Q	2	RCF-2S26-H1-LD-QS	1275	50	51	1	< 1000	0.96	1.6	Location marked on ballast label	85	Yes	44	Yes	Yes	2	No	Yes	No
CFTR26WG24Q	1	RCF-2S26-H1-LD-QS	1318	50	29	1.1	< 1000	0.96	1.6	Location marked on ballast label	85	Yes	44	Yes	Yes	1	No	Yes	No
CFTR26WG24Q	2	RCF-2S26-H1-LD-QS	1620	60	54	1	< 1000	0.96	1.6	Location marked on ballast label	85	Yes	44	Yes	Yes	2	No	Yes	No
CFTR32W/GX24q	1	RCF-2S26-H1-LD-QS	2204	60	36	0.98	< 1000	0.96	1.6	Location marked on ballast label	85	Yes	44	Yes	Yes	1	No	Yes	No
CFTR42W/GX24q	1	RCF-2S26-H1-LD-QS	2816	60	46	0.98	< 1000	0.98	1.6	Location marked on ballast label	85	Yes	44	Yes	Yes	1	No	Yes	No
CFQ26WG24Q	1	RCF-2S26-M1-BS-QS	1227	50	27	1.1	< 1000	0.96	1.6	Location marked on ballast label	85	Yes	44	Yes	Yes	1	No	Yes	No
CFQ26WG24Q	2	RCF-2S26-M1-BS-QS	1530	60	51	1	< 1000	0.96	1.6	Location marked on ballast label	85	Yes	44	Yes	Yes	2	No	Yes	No
CFTR26WG24Q	1	RCF-2S26-M1-BS-QS	1318	50	29	1.1	< 1000	0.96	1.6	Location marked on ballast label	85	Yes	44	Yes	Yes	1	No	Yes	No
CFTR26WG24Q	2	RCF-2S26-M1-BS-QS	1620	60	54	1	< 1000	0.96	1.6	Location marked on ballast label	85	Yes	44	Yes	Yes	2	No	Yes	No

CFTR32W/GX24q	1	RCF-2S26-M1-BS-QS	2204	60	36	0.98	< 1000	0.96	1.6	Location marked on ballast label	85	Yes	44	Yes	Yes	1	No	Yes	No
CFTR42W/GX24q	1	RCF-2S26-M1-BS-QS	2816	60	46	0.98	< 1000	0.98	1.6	Location marked on ballast label	85	Yes	44	Yes	Yes	1	No	Yes	No
CFQ26WG24Q	1	RCF-2S26-M1-LS-QS	1227	50	27	1.1	< 1000	0.96	1.6	Location marked on ballast label	85	Yes	44	Yes	Yes	1	No	Yes	No
CFQ26WG24Q	2	RCF-2S26-M1-LS-QS	1530	60	51	1	< 1000	0.96	1.6	Location marked on ballast label	85	Yes	44	Yes	Yes	2	No	Yes	No
CFTR26WG24Q	1	RCF-2S26-M1-LS-QS	1318	50	29	1.1	< 1000	0.96	1.6	Location marked on ballast label	85	Yes	44	Yes	Yes	1	No	Yes	No
CFTR26WG24Q	2	RCF-2S26-M1-LS-QS	1620	60	54	1	< 1000	0.96	1.6	Location marked on ballast label	85	Yes	44	Yes	Yes	2	No	Yes	No
CFTR32W/GX24q	1	RCF-2S26-M1-LS-QS	2204	60	36	0.98	< 1000	0.96	1.6	Location marked on ballast label	85	Yes	44	Yes	Yes	1	No	Yes	No
CFTR42W/GX24q	1	RCF-2S26-M1-LS-QS	2816	60	46	0.98	< 1000	0.98	1.6	Location marked on ballast label	85	Yes	44	Yes	Yes	1	No	Yes	No
CFQ13W/G24q	1	REB-113-M6-BL	750	50	15	1.0	<1000	0.52	1.63	On Label	90	Yes	23	Yes	Yes	1	No	Yes	No
CFTR13W/GX24q	1	REB-113-M6-BL	750	50	15	1.0	<1000	0.52	1.63	On Label	90	Yes	23	Yes	Yes	1	No	Yes	No
CFQ13W/G24q	1	REB-113-M6-BLS	750	50	15	1.0	<1000	0.52	1.63	On Label	90	Yes	23	Yes	Yes	1	No	Yes	No
CFTR13W/GX24q	1	REB-113-M6-BLS	750	50	15	1.0	<1000	0.52	1.63	On Label	90	Yes	23	Yes	Yes	1	No	Yes	No
CFQ13W/G24q	1	REB-113-M6-EL	750	50	15	1.0	<1000	0.52	1.63	On Label	90	Yes	23	Yes	Yes	1	No	Yes	No
CFTR13W/GX24q	1	REB-113-M6-EL	750	50	15	1.0	<1000	0.52	1.63	On Label	90	Yes	23	Yes	Yes	1	No	Yes	No
CFQ18W/G24q	1	REB-118-M6-BL	900	50	18	1.0	<1000	0.54	1.62	On Label	90	Yes	43	Yes	Yes	1	No	Yes	No
CFTR18W/GX24q	1	REB-118-M6-BL	900	50	18	1.0	<1000	0.54	1.62	On Label	90	Yes	43	Yes	Yes	1	No	Yes	No
CFQ18W/G24q	1	REB-118-M6-BLS	900	50	18	1.0	<1000	0.54	1.62	On Label	90	Yes	43	Yes	Yes	1	No	Yes	No
CFTR18W/GX24q	1	REB-118-M6-BLS	900	50	18	1.0	<1000	0.54	1.62	On Label	90	Yes	43	Yes	Yes	1	No	Yes	No
CFQ18W/G24q	1	REB-118-M6-EL	900	50	18	1.0	<1000	0.54	1.62	On Label	90	Yes	43	Yes	Yes	1	No	Yes	No
CFTR18W/GX24q	1	REB-118-M6-EL	900	50	18	1.0	<1000	0.54	1.62	On Label	90	Yes	43	Yes	Yes	1	No	Yes	No

CFQ26W/G24q	1	REB126-M1-BLS	1250	50	25	1.0	<1000	0.55	1.7	Location marked on ballast label	75	Yes	47	Yes	Yes	1	No	Yes	No
CFTR26W/GX24q	1	REB126-M1-BLS	1250	50	25	1.0	<1000	0.55	1.7	Location marked on ballast label	75	Yes	48	Yes	Yes	1	No	Yes	No
CFQ26W/G24q	1	REB-126-M6-BL	1250	50	25	1.0	<1000	0.54	1.64	On Label	90	Yes	46	Yes	Yes	1	No	Yes	No
CFTR26W/GX24q	1	REB-126-M6-BL	1250	50	25	1.0	<1000	0.54	1.64	On Label	90	Yes	46	Yes	Yes	1	No	Yes	No
CFQ26W/G24q	1	REB-126-M6-BLS	1250	50	25	1.0	<1000	0.54	1.64	On Label	90	Yes	46	Yes	Yes	1	No	Yes	No
CFTR26W/GX24q	1	REB-126-M6-BLS	1250	50	25	1.0	<1000	0.54	1.64	On Label	90	Yes	46	Yes	Yes	1	No	Yes	No
CFQ26W/G24q	1	REB-126-M6-EL	1250	50	25	1.0	<1000	0.54	1.64	On Label	90	Yes	46	Yes	Yes	1	No	Yes	No
CFTR26W/GX24q	1	REB-126-M6-EL	1250	50	25	1.0	<1000	0.54	1.64	On Label	90	Yes	46	Yes	Yes	1	No	Yes	No
F17T8	1	REB-232-SC	989	50	18	0.91	75	0.55	1.63	5.25"	70	Yes	40.8	Yes	N/A	N/A	No	Yes	No
F17T8	2	REB-232-SC	1023	60	30	0.88	75	0.58	1.64	5.25"	70	Yes	41	Yes	N/A	N/A	No	Yes	No
F25T8	1	REB-232-SC	1333	50	24	0.9	75	0.57	1.62	5.25"	70	Yes	41	Yes	N/A	N/A	No	Yes	No
F25T8	2	REB-232-SC	1536	60	43	0.84	75	0.6	1.63	5.25"	70	Yes	40.8	Yes	N/A	N/A	No	Yes	No
F32T8	1	REB-232-SC	2386	70	30	0.88	75	0.58	1.6	5.25"	70	Yes	41	Yes	N/A	N/A	No	Yes	No
F32T8	2	REB-232-SC	2406	70	55	0.8	75	0.6	1.6	5.25"	70	Yes	41.3	Yes	N/A	N/A	No	Yes	No
F17T8	1	REB-2P32-SC	931	50	19	1.02	75	0.53	1.65	5.25"	70	Yes	49	Yes	N/A	N/A	No	Yes	No
F17T8	2	REB-2P32-SC	1022	60	31	0.91	75	0.56	1.65	5.25"	70	Yes	42.5	Yes	N/A	N/A	No	Yes	No
F25T8	1	REB-2P32-SC	1300	50	26	1	75	0.55	1.65	5.25"	70	Yes	49	Yes	N/A	N/A	No	Yes	No
F25T8	2	REB-2P32-SC	1449	60	43	0.89	75	0.58	1.65	5.25"	70	Yes	42.5	Yes	N/A	N/A	No	Yes	No
F32T8	1	REB-2P32-SC	2310	70	33	1	75	0.57	1.65	5.25"	70	Yes	49	Yes	N/A	N/A	No	Yes	No
F32T8	2	REB-2P32-SC	2227	70	56	0.88	75	0.58	1.65	5.25"	70	Yes	43	Yes	N/A	N/A	No	Yes	No

CFQ26W/G24q	2	REB-2S26-M1-BS-DIM	1838	60	49	0.8	<1000	0.97	1.5	Location marked on ballast label	85	Yes	50	Yes	Yes	2	Continuous	Yes	No
CFQ26W/GX24q	1	REB-2S26-M1-BS-DIM	1625	50	26	0.8	<1000	0.97	1.6	Location marked on ballast label	85	Yes	65	Yes	Yes	1	Continuous	Yes	No
CFTR26W/GX24q	2	REB-2S26-M1-BS-DIM	1988	60	53	0.8	<1000	0.97	1.5	Location marked on ballast label	85	Yes	50	Yes	Yes	2	Continuous	Yes	No
CFTR26W/GX24q	1	REB-2S26-M1-BS-DIM	1688	50	27	0.8	<1000	0.97	1.5	Location marked on ballast label	85	Yes	65	Yes	Yes	1	Continuous	Yes	No
CFTR32W/GX24q	1	REB-2S26-M1-BS-DIM	2625	60	35	0.8	<1000	0.97	1.5	Location marked on ballast label	85	Yes	60	Yes	Yes	1	Continuous	Yes	No
CFTR42W/GX24q	1	REB-2S26-M1-BS-DIM	3375	60	45	0.8	<1000	0.97	1.5	Location marked on ballast label	85	Yes	65	Yes	Yes	1	Continuous	Yes	No
CFQ26W/G24q	2	REB-2S26-M1-LS-DIM	1838	60	49	0.8	<1000	0.97	1.5	Location marked on ballast label	85	Yes	50	Yes	Yes	2	Continuous	Yes	No
CFQ26W/GX24q	1	REB-2S26-M1-LS-DIM	1625	50	26	0.8	<1000	0.97	1.6	Location marked on ballast label	85	Yes	65	Yes	Yes	1	Continuous	Yes	No
CFTR26W/GX24q	2	REB-2S26-M1-LS-DIM	1988	60	53	0.8	<1000	0.97	1.5	Location marked on ballast label	85	Yes	50	Yes	Yes	2	Continuous	Yes	No
CFTR26W/GX24q	1	REB-2S26-M1-LS-DIM	1688	50	27	0.8	<1000	0.97	1.5	Location marked on ballast label	85	Yes	65	Yes	Yes	1	Continuous	Yes	No
CFTR32W/GX24q	1	REB-2S26-M1-LS-DIM	2625	60	35	0.8	<1000	0.97	1.5	Location marked on ballast label	85	Yes	60	Yes	Yes	1	Continuous	Yes	No
CFTR42W/GX24q	1	REB-2S26-M1-LS-DIM	3375	60	45	0.8	<1000	0.97	1.5	Location marked on ballast label	85	Yes	65	Yes	Yes	1	Continuous	Yes	No
F17T8	3	REB-4P32-SC	1086	60	44	0.81	50	0.6	1.56	6.0"	70	Yes	48.6	Yes	N/A	N/A	No	Yes	No
F17T8	4	REB-4P32-SC	951	60	52	0.82	50	0.61	1.61	6.0"	70	Yes	44.6	Yes	N/A	N/A	No	Yes	No
F25T8	3	REB-4P32-SC	1465	60	63	0.86	50	0.63	1.59	6.0"	70	Yes	48.8	Yes	N/A	N/A	No	Yes	No
F25T8	4	REB-4P32-SC	1426	60	77	0.81	50	0.64	1.65	6.0"	70	Yes	44.8	Yes	N/A	N/A	No	Yes	No
F32T8	3	REB-4P32-SC	2222	70	80	0.84	50	0.64	1.61	6.0"	70	Yes	49	Yes	N/A	N/A	No	Yes	No
F32T8	4	REB-4P32-SC	2122	70	97	0.8	50	0.65	1.67	6.0"	70	Yes	45	Yes	N/A	N/A	No	Yes	No
F17T8	2	RELB-2P32-SC	1109	60	34	0.92	40	0.94	1.7	2.0"	70	Yes	44	Yes	N/A	N/A	No	Yes	No
F25T8	1	RELB-2P32-SC	1667	50	30	0.9	40	0.9	1.7	2.0"	70	Yes	53	Yes	N/A	N/A	No	Yes	No

F25T8	2	RELB-2P32-SC	1633	60	49	0.9	40	0.97	1.7	2.0"	70	Yes	44	Yes	N/A	N/A	No	Yes	No
F32T8	1	RELB-2P32-SC	2396	70	38	1.11	40	0.98	1.7	2.0"	70	Yes	53	Yes	N/A	N/A	No	Yes	No
F32T8	2	RELB-2P32-SC	2347	70	57	0.85	40	0.97	1.7	2.0"	70	Yes	44	Yes	N/A	N/A	No	Yes	No
F40T8	1	RELB-2P32-SC	3150	70	45	1	40	0.98	1.7	2.0"	70	Yes	53	Yes	N/A	N/A	No	Yes	No
F40T12	2	RELB-2S40-SC	2965	70	72	0.9	<1000	0.98	1.7	1.75"	70	Yes	45	Yes	N/A	N/A	No	Yes	No
F40T12/ES	2	RELB-2S40-SC	2553	70	62	0.9	<1000	0.98	1.7	1.75"	70	Yes	45	Yes	N/A	N/A	No	Yes	No
CFQ13W/G24q	1	RMB-1P13-L2	700	50	14	1	< 1000	0.58	1.5	1.00"	70	Yes	51.5	Yes	Yes	1	No	Yes	No
CFT7W/2G7	1	RMB-1P13-L2	400	50	8	1	< 1000	0.51	1.62	1.00"	65	Yes	41.2	Yes	Yes	1	No	Yes	No
CFT9W/2G7	1	RMB-1P13-L2	455	50	10	1.1	< 1000	0.52	1.58	1.00"	65	Yes	45	Yes	Yes	1	No	Yes	No
CFTR13W/GX24Q	1	RMB-1P13-L2	700	50	14	1	< 1000	0.58	1.63	1.00"	70	Yes	45	Yes	Yes	1	No	Yes	No
F13T5	1	RMB-1P13-L2	700	50	14	1	100	0.56	1.39	1.00"	65	Yes	51	Yes	Yes	1	No	Yes	No
F14T5 (HF)	1	RMB-1P13-L2	737	50	14	0.95	< 1000	0.56	1.62	1.00"	65	Yes	50	Yes	Yes	1	No	Yes	No
F8T5	1	RMB-1P13-L2	385	50	10	1.3	100	0.52	1.51	1.00"	65	Yes	44	Yes	Yes	1	No	Yes	No
CFQ13W/G24q	1	RMB-1P13-S1	700	50	14	1	< 1000	0.58	1.5	1.00"	70	Yes	51.5	Yes	Yes	1	No	Yes	No
CFT7W/2G7	1	RMB-1P13-S1	400	50	8	1	< 1000	0.51	1.62	1.00"	65	Yes	41.2	Yes	Yes	1	No	Yes	No
CFT9W/2G7	1	RMB-1P13-S1	455	50	10	1.1	< 1000	0.52	1.58	1.00"	65	Yes	45	Yes	Yes	1	No	Yes	No
CFTR13W/GX24Q	1	RMB-1P13-S1	700	50	14	1	< 1000	0.58	1.63	1.00"	70	Yes	45	Yes	Yes	1	No	Yes	No
F13T5	1	RMB-1P13-S1	700	50	14	1	100	0.56	1.39	1.00"	65	Yes	51	Yes	Yes	1	No	Yes	No
F14T5 (HF)	1	RMB-1P13-S1	737	50	14	0.95	< 1000	0.56	1.62	1.00"	65	Yes	50	Yes	Yes	1	No	Yes	No
F8T5	1	RMB-1P13-S1	385	50	10	1.3	100	0.52	1.51	1.00"	65	Yes	44	Yes	Yes	1	No	Yes	No

CFQ13W/G24q	1	RMB-1P13-S2-H	824	50	14	0.85	100	0.97	1.65	1.00"	65	Yes	44	Yes	Yes	1	No	Yes	No
CFT7W/2G7	1	RMB-1P13-S2-H	400	50	8	1	100	0.95	1.65	1.00"	65	Yes	44	Yes	Yes	1	No	Yes	No
CFT9W/2G7	1	RMB-1P13-S2-H	476	50	10	1.05	100	0.95	1.65	1.00"	65	Yes	44	Yes	Yes	1	No	Yes	No
CFTR13W/GX24Q	1	RMB-1P13-S2-H	824	50	14	0.85	100	0.97	1.65	1.00"	65	Yes	44	Yes	Yes	1	No	Yes	No
F13T5	1	RMB-1P13-S2-H	737	50	14	0.95	100	0.97	1.65	1.00"	65	Yes	44	Yes	Yes	1	No	Yes	No
F14T5 (HF)	1	RMB-1P13-S2-H	778	50	14	0.9	100	0.97	1.65	1.00"	65	Yes	44	Yes	Yes	1	No	Yes	No
F8T5	1	RMB-1P13-S2-H	417	50	10	1.2	100	0.98	1.65	1.00"	65	Yes	44	Yes	Yes	1	No	Yes	No
CFQ26W/G24Q	1	RMB-1P26-S2	1354	50	26	0.96	< 1000	0.57	1.6	1.00"	65	Yes	47	Yes	Yes	1	No	Yes	No
CFTR26W/GX24Q	1	RMB-1P26-S2	1354	50	26	0.96	< 1000	0.57	1.6	1.00"	65	Yes	48	Yes	Yes	1	No	Yes	No
FC8T9	1	RMB-1P26-S2	1158	50	22	0.95	< 1000	0.52	1.6	1.00"	65	Yes	44.2	Yes	Yes	1	No	Yes	No
FC9T5	1	RMB-1P26-S2	1250	50	25	1	< 1000	0.53	1.6	1.00"	65	Yes	45	Yes	Yes	1	No	Yes	No
FT18W/2G11/RS	1	RMB-1P26-S2	1150	50	23	1	< 1000	0.52	1.6	1.00"	65	Yes	44	Yes	Yes	1	No	Yes	No
FT24W/2G11/RS	1	RMB-1P26-S2	1368	50	26	0.95	< 1000	0.54	1.6	1.00"	65	Yes	46	Yes	Yes	1	No	Yes	No
(1) F8T5 & (1) F13T5	2	RMB-2P13-L2	523	50	23	1.1	100	0.58	1.6	1.00"	65	Yes	50	Yes	Yes	2	No	Yes	No
CFQ13W/G24q	2	RMB-2P13-L2	658	50	25	0.95	< 1000	0.6	1.62	1.00"	70	Yes	50	Yes	Yes	2	No	Yes	No
CFQ18W/G24q	1	RMB-2P13-L2	1000	50	16	0.8	< 1000	0.51	1.5	1.00"	65	Yes	52	Yes	Yes	1	No	Yes	No
CFT7W/2G7	2	RMB-2P13-L2	364	50	16	1.1	< 1000	0.56	1.66	1.00"	65	Yes	40.5	Yes	Yes	2	No	Yes	No
CFT9W/2G7	2	RMB-2P13-L2	455	50	20	1.1	< 1000	0.57	1.68	1.00"	65	Yes	43.3	Yes	Yes	2	No	Yes	No
CFTR13W/GX24Q	2	RMB-2P13-L2	658	50	25	0.95	< 1000	0.6	1.66	1.00"	70	Yes	43.4	Yes	Yes	2	No	Yes	No
CFTR18WGX24Q	1	RMB-2P13-L2	1000	50	16	0.8	< 1000	0.51	1.49	1.00"	65	Yes	54	Yes	Yes	1	No	Yes	No

F13T5	2	RMB-2P13-L2	711	50	27	0.95	100	0.59	1.38	1.00"	65	Yes	50	Yes	Yes	2	No	Yes	No
F14T5 (HF)	2	RMB-2P13-L2	750	50	27	0.9	< 1000	0.56	1.62	1.00"	65	Yes	50	Yes	Yes	2	No	Yes	No
F8T5	2	RMB-2P13-L2	365	50	19	1.3	100	0.59	1.56	1.00"	65	Yes	52	Yes	Yes	2	No	Yes	No
(1) F8T5 & (1) F13T5	2	RMB-2P13-S2	523	50	23	1.1	100	0.58	1.6	1.00"	65	Yes	50	Yes	Yes	2	No	Yes	No
CFQ13W/G24q	2	RMB-2P13-S2	658	50	25	0.95	< 1000	0.6	1.62	1.00"	70	Yes	50	Yes	Yes	2	No	Yes	No
CFQ18W/G24q	1	RMB-2P13-S2	1000	50	16	0.8	< 1000	0.51	1.5	1.00"	65	Yes	52	Yes	Yes	1	No	Yes	No
CFT7W/2G7	2	RMB-2P13-S2	364	50	16	1.1	< 1000	0.56	1.66	1.00"	65	Yes	40.5	Yes	Yes	2	No	Yes	No
CFT9W/2G7	2	RMB-2P13-S2	455	50	20	1.1	< 1000	0.57	1.68	1.00"	65	Yes	43.3	Yes	Yes	2	No	Yes	No
CFTR13W/GX24Q	2	RMB-2P13-S2	658	50	25	0.95	< 1000	0.6	1.66	1.00"	70	Yes	43.4	Yes	Yes	2	No	Yes	No
CFTR18WGX24Q	1	RMB-2P13-S2	1000	50	16	0.8	< 1000	0.51	1.49	1.00"	65	Yes	54	Yes	Yes	1	No	Yes	No
F13T5	2	RMB-2P13-S2	711	50	27	0.95	100	0.59	1.38	1.00"	65	Yes	50	Yes	Yes	2	No	Yes	No
F14T5 (HF)	2	RMB-2P13-S2	750	50	27	0.9	< 1000	0.56	1.62	1.00"	65	Yes	50	Yes	Yes	2	No	Yes	No
F8T5	2	RMB-2P13-S2	365	50	19	1.3	100	0.59	1.56	1.00"	65	Yes	52	Yes	Yes	2	No	Yes	No
(1) F8T5 & (1) F13T5	2	RMB-2P13-S3-H	523	50	23	1.1	100	0.97	1.65	1.00"	65	Yes	44	Yes	Yes	2	No	Yes	No
CFQ13W/G24q	2	RMB-2P13-S3-H	750	50	27	0.9	100	0.98	1.65	1.00"	65	Yes	44	Yes	Yes	2	No	Yes	No
CFQ18W/G24q	1	RMB-2P13-S3-H	938	50	15	0.8	100	0.96	1.65	1.00"	65	Yes	44	Yes	Yes	1	No	Yes	No
CFT7W/2G7	2	RMB-2P13-S3-H	400	50	16	1	100	0.95	1.65	1.00"	65	Yes	44	Yes	Yes	2	No	Yes	No
CFT9W/2G7	2	RMB-2P13-S3-H	476	50	20	1.05	100	0.98	1.65	1.00"	65	Yes	44	Yes	Yes	2	No	Yes	No
CFTR13W/GX24Q	2	RMB-2P13-S3-H	750	50	27	0.9	100	0.98	1.65	1.00"	65	Yes	44	Yes	Yes	2	No	Yes	No
CFTR18W/GX24q	1	RMB-2P13-S3-H	938	50	15	0.8	100	0.96	1.65	1.00"	65	Yes	44	Yes	Yes	1	No	Yes	No

F13T5	2	RMB-2P13-S3-H	737	50	28	0.95	100	0.97	1.65	1.00"	65	Yes	44	Yes	Yes	2	No	Yes	No
F14T5 (HF)	2	RMB-2P13-S3-H	778	50	28	0.9	100	0.97	1.65	1.00"	65	Yes	44	Yes	Yes	2	No	Yes	No
F8T5	2	RMB-2P13-S3-H	380	50	19	1.25	100	0.98	1.65	1.00"	65	Yes	44	Yes	Yes	2	No	Yes	No

1. Minimum Required Initial Lamp Lumens needed for compliance. Refer to "Fluorescent Lamp Matrix" for Rated Initial Lamp Lumens.

$$\text{Minimum Required Initial Lamp Lumens} = \frac{\text{Minimum Required Lumens Per Watt} \times \text{Input Power}}{\text{Number of Lamps Per Ballast} \times \text{Ballast Factor}}$$

2. Hot spot location measured from end of case where line leads exit, unless otherwise indicated.
3. Maximum recommended ballast case temperature during normal operation inside a fixture.
4. Indicate "Yes" if ballast meets FCC requirements for consumer use.
5. Indicate "Yes" if ballast meets transient protection requirements.
6. All ballasts that operate lamps sized T5 and smaller must contain an end of life protection circuit. For ballasts that operate T4 or T5 lamps, they must be tested in accordance to IEC 61347-2-3 Amendment 1 to Edition 1 2004-06 (or ANSI C82.11-2005).
7. If ballast is dimmable, indicate "Continuous" or "3-way" dimming. Otherwise, indicate "No".
8. EPA encourages the use of the Line Voltage Socket standard design for ballasts that drive lamps 26W and lower, but does not require its use at this time. For more information, see: www.lrc.rpi.edu/programs/lightingTransformation/lineVoltage/index.asp