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Input Wattage Guide

Please use these wattages when calculating estimated wattage savings for Lighting Efficiency rebates. These estimates figure electricity drawn by the system in an enclosed fixture and are taken from existing test data or calculated for similar lamp/ballast combinations.

- This wattage guide is provided to estimate energy savings. Energy savings calculations are estimates and may vary from actual results.
- Fixture wattages may vary slightly between different model numbers & manufacturers. They type of fixture and method of installation will affect the actual system wattage.

T12 fluorescent lamps

		Fixture input watts (for normal power ballasts)		
Fluorescent lamp description	Number of lamps	*Standard magnetic ballast	Energy saving magnetic ballast	Electronic ballast
F15T12 1.5′ 15W	1	–	21	–
F15T12 1.5′ 15W	2	–	41	–
F15T12 1.5′ 15W	3	–	63	–
F20T12 2′ 20W	1	–	20.6	–
F20T12 2′ 20W	2	–	53.4	–
F20T12 2′ 20W	3	–	64	–
F20T12 2′ 20W	4	–	91	–
F24T12 3′ 24W	1	–	44.8	–
F24T12 3′ 24W	2	–	65.4	–
F25T12 3′ 25W	1	–	–	35
F25T12 3′ 25W	2	–	–	71
F25T12 3′ 25W	3	–	–	69.7
F25T12 3′ 25W	4	–	–	88.4
F30T12 3′ 30W	1	–	39.7	30
F30T12 3′ 30W	2	–	75	60
F30T12 3′ 30W	3	–	113	90
F30T12 3′ 30W	4	–	138	–
F30T12 3′ 25W	1	–	39.6	28
F30T12 3′ 25W	2	–	64.8	50
F30T12 3′ 25W	3	–	103	80
F30T12 3′ 25W	4	–	125	–
F40T12 4′ 40W	1	51	40.6	38
F40T12 4′ 40W	2	97	86.5	71
F40T12 4′ 40W	3	135	141	107
F40T12 4′ 40W	4	175	172	134
F40T12 4′ 34W	1	45.1	42	31
F40T12 4′ 34W	2	84.2	67	60
F40T12 4′ 34W	3	127	104	91
F40T12 4′ 34W	4	156	144	119

		Fixture input watts (for normal power ballasts)		
Fluorescent lamp description	Number of lamps	*Standard magnetic ballast	Energy saving magnetic ballast	Electronic ballast
F36T12 3′ 30W SLIM	1	–	57.1	–
F36T12 3′ 30W SLIM	2	–	82.7	–
F42T12 3.5′ 35W SLIM	1	–	57.3	48
F42T12 3.5′ 35W SLIM	2	–	86.9	73
F48T12 4′ 30W ES SLIM	1	–	49	39
F48T12 4′ 30W ES SLIM	2	–	79.8	64
F48T12 4′ 40W SLIM	1	–	61.8	53
F48T12 4′ 40W SLIM	2	–	98.2	82
F60T12 5′ 50W SLIM	1	–	72.2	64
F60T12 5′ 50W SLIM	2	–	111	103
F72T12 6′ 57W SLIM	1	–	80.1	67
F72T12 6′ 57W SLIM	2	–	122	106
F84T12 7′ 65W SLIM	1	–	88.6	75
F84T12 7′ 65W SLIM	2	–	143	120
F96T12 8′ 60W ES SLIM	1	–	74	67
F96T12 8′ 60W ES SLIM	2	–	113	105
F96T12 8′ 75W SLIM	1	–	94.1	84
F96T12 8′ 75W SLIM	2	–	145	133
F24T12 HO 2′ 35W	1	–	64	–
F24T12 HO 2′ 35W	2	–	94.8	–
F24T12 HO 2′ 35W	3	–	148	–
F24T12 HO 2′ 35W	4	–	183.4	–
F30T12 HO 2.5′ 42W	1	–	67	–
F30T12 HO 2.5′ 42W	2	–	95	–

* Standard Magnetic ballasts that don't comply with Public Law 100-357 of 1988. These ballasts were no longer manufactured after January 1, 1990.

T12 fluorescent lamps

Fluorescent lamp description	Number of lamps	Fixture input watts (for normal power ballasts) *Standard magnetic ballast	Energy saving magnetic ballast	Electronic ballast
F36T12 HO 3′ 50W	1	–	72	–
F36T12 HO 3′ 50W	2	–	110	–
F36T12 HO 3′ 50W	3	–	165.9	–
F36T12 HO 3′ 50W	4	–	211.7	–
F42T12 HO 3.5′ 50W	1	–	72	–
F42T12 HO 3.5′ 50W	2	–	125.7	–
F48T12 HO 4′ 60W	1	–	81.9	62
F48T12 HO 4′ 60W	2	–	132.8	125
F48T12 HO 4′ 60W	3	–	203.6	–
F48T12 HO 4′ 60W	4	–	262.6	–
F48T12 VHO 4′ 116W	1	–	130	–
F48T12 VHO 4′ 116W	2	–	230	–
F48T12 VHO 4′ 116W	3	–	329	–
F60T12 HO 5′ 75W	1	–	97.5	–
F60T12 HO 5′ 75W	2	–	163	145
F60T12 HO 5′ 75W	3	–	223	–
F60T12 HO 5′ 75W	4	–	278	243
F60T12 VHO 5′ 138W	1	–	140	–
F60T12 VHO 5′ 138W	2	–	241	–
F64T12 HO 64′′ 80W	1	–	104	–
F64T12 HO 64′′ 80W	2	–	177.9	141
F64T12 HO 64′′ 80W	3	–	246	–
F64T12 HO 64′′ 80W	4	–	312	–
F72 T12 HO 6′ 85W	1	–	106	–
F72 T12 HO 6′ 85W	2	–	189.7	164
F72 T12 HO 6′ 85W	3	–	291.2	225
F72 T12 HO 6′ 85W	4	–	323	–
F72 T12 VHO 6′ 168W	1	–	168.4	–
F72 T12 VHO 6′ 168W	2	–	314	–
F72 T12 VHO 6′ 168W	3	–	424	–
F84T12 HO 7′ 100W	1	–	113	–
F84T12 HO 7′ 100W	2	–	209.3	190
F84T12 HO 7′ 100W	3	–	278	–
F96 T12 HO 8′ 110W	1	140.1	120.6	119
F96 T12 HO 8′ 110W	2	257.6	237.6	205
F96 T12 HO 8′ 95W ES	1	125	120	–
F96 T12 HO 8′ 95W ES	2	216	202.8	170
F96 T12 VHO 8′ 215W	1	–	213	–
F96 T12 VHO 8′ 215W	2	–	320	–
F96 T12 VHO 8′ 215W	3	–	517.5	–
F96 T12 VHO 8′ 185W ES	1	–	198	–
F96 T12 VHO 8′ 185W ES	2	–	398.3	–
F96 T12 VHO 8′ 185W ES	3	–	550	–

* Standard Magnetic ballasts that don't comply with Public Law 100-357 of 1988. These ballasts were no longer manufactured after January 1, 1990.

T10 fluorescent lamps

Fluorescent lamp description	Number of lamps	Fixture input watts (for normal power ballasts) Energy saving magnetic ballast	Electronic ballast
F40T10 4′ 40W	1	53.6	41.3
F40T10 4′ 40W	2	88	72
F40T10 4′ 40W	3	141	112

T8 fluorescent lamps

Fluorescent lamp description	Number of lamps	Fixture input watts (for normal power ballasts) Energy saving magnetic ballast	Electronic ballast
F13T8 1′ 13W	1	16.7	–
F13T8 1′ 13W	2	35.6	–
F15T8 1.5′ 15W	1	20.2	–
F15T8 1.5′ 15W	2	40.5	–
F17T8 2′ 17W	1	24.3	18.3
F17T8 2′ 17W	2	45	31
F17T8 2′ 17W	3	64	45
F17T8 2′ 17W	4	83	57
F25T8 3′ 25W	1	30.2	24
F25T8 3′ 25W	2	61.5	43
F25T8 3′ 25W	3	87	63
F25T8 3′ 25W	4	116	85
F32T8 4′ 25W	1	–	26
F32T8 4′ 25W	2	–	43
F32T8 4′ 25W	3	–	63
F32T8 4′ 25W	4	–	85
F32T8 4′ 28W	1	–	25
F32T8 4′ 28W	2	–	48
F32T8 4′ 28W	3	–	72
F32T8 4′ 28W	4	–	97
F32T8 4′ 30W ES	1	39.6	31
F32T8 4′ 30W ES	2	82.1	54
F32T8 4′ 30W ES	3	–	77
F32T8 4′ 30W ES	4	–	104

Fluorescent lamp description	Number of lamps	Fixture input watts (for normal power ballasts) Energy saving magnetic ballast	Electronic ballast
F32T8 4′ 32W	1	35.1	32
F32T8 4′ 32W	2	68.2	58
F32T8 4′ 32W	3	100	85
F32T8 4′ 32W	4	131	110
F36T8 4′ 36W	2	–	74
F40T8 5′ 40W	1	50.2	39
F40T8 5′ 40W	2	86.2	75
F40T8 5′ 40W	3	131	107
F40T8 5′ 40W	4	171	116
F48T8 HO 4′ 44W	1	–	59
F48T8 HO 4′ 44W	2	120	98
F60T8 HO 5′ 55W	1	–	70
F60T8 HO 5′ 55W	2	126	118
F72T8 6′ 46W	1	51.7	50
F72T8 6′ 46W	2	97	88
F72T8 HO 6′ 66W	1	–	81
F72T8 HO 6′ 66W	2	150	135
F96T8 8′ 59W	1	65.3	58
F96T8 8′ 59W	2	120	111
F96T8 8′ 59W ES	1	–	64
F96T8 8′ 59W ES	2	–	104
F96T8 HO 8′ 86W	1	–	100
F96T8 HO 8′ 86W	2	–	160

T8 u-shape fluorescent lamps

Fluorescent lamp description	Number of lamps	Fixture input watts (for normal power ballasts) Energy saving magnetic ballast	Electronic ballast
F16T8 U	1	23.4	17
F16T8 U	2	45.8	29.3
F16T8 U	3	–	45.6
F16T8 U	4	–	55.8
F24T8 U	1	32.1	24.3
F24T8 U	2	61.7	45.7
F24T8 U	3	–	65
F24T8 U	4	–	81.5
F25T8 U	1	33.9	26
F25T8 U	2	59.8	48

Fluorescent lamp description	Number of lamps	Fixture input watts (for normal power ballasts) Energy saving magnetic ballast	Electronic ballast
F25T8 U	3	–	70
F31T8 U	1	34	34.1
F31T8 U	2	73	63.6
F31T8 U	3	–	90.1
F31T8 U	4	–	105.5
F32T8 U	1	37	31
F32T8 U	2	74	58
F32T8 U	3	–	86
F32T8 U	4	–	112

Super T8 system input wattage

	Instant start ballast			Rapid start ballast		
	Low ballast factor (0.77)	Normal ballast factor (0.87)	High ballast factor (1.15)	Low ballast factor (0.71)	Low ballast factor (0.77)	Normal ballast factor (.88)
1 lamp	25	28	38	25	--	31
2 lamps	48	55	74	47	48	60
3 lamps	71	82.1	110	73	74	88
4 lamps	95	108	144	93	97.5	118

T5 fluorescent lamps

		Fixture input watts (for normal power ballasts)	
Fluorescent lamp description	Number of lamps	Energy saving magnetic ballast	Electronic ballast
F4T5 6'' 4W	1	9.2	
F4T5 6'' 4W	2	19.5	
F6T5 9'' 6W	1	9.7	
F6T5 9'' 6W	2	21.2	
F8T5 1' 8W	1	14.4	10
F8T5 1' 8W	2	22.7	21
F13T5 2' 13W	1	13.2	14
F13T5 2' 13W	2	26.4	27
F14T5 2' 14W	1	–	14
F14T5 2' 14W	2	–	28
F21T5 3' 21W	1	–	25.2
F21T5 3' 21W	2	–	48.9

		Fixture input watts (for normal power ballasts)	
Fluorescent lamp description	Number of lamps	Energy saving magnetic ballast	Electronic ballast
F28T5 4' 28W	1	–	32.3
F28T5 4' 28W	2	–	64
F35T5 5' 35W	1	–	40.3
F35T5 5' 35W	2	–	77
F24T5 HO 2' 24W	1	–	27
F24T5 HO 2' 24W	2	–	54.4
F39T5HO 3' 39W	1	–	42.4
F39T5HO 3' 39W	2	–	85
F54T5HO 4' 54W	1	–	62
F54T5HO 4' 54W	2	–	120
F54T5HO 4' 54W	4	–	234
F80T5HO 5' 80W	1	–	89

Circular fluorescent lamps

		Fixture input watts (for normal power ballasts)	
Fluorescent lamp description	Number of lamps	Energy saving magnetic ballast	Electronic ballast
FC9T5, 22W	1	–	25
FC9T5, 22W	2	–	52
FC12T5, 40W	1	–	43.5
FC12T5, 40W	2	–	83.5
FC12T5HO, 55W	1	–	58.5
FC12T5HO, 55W	2	–	113
FC6T9, 20W	1	21	–

		Fixture input watts (for normal power ballasts)	
Fluorescent lamp description	Number of lamps	Energy saving magnetic ballast	Electronic ballast
FC8T9, 22W	1	22.3	22
FC8T9, 22W	2	46	–
FC12T9, 32W	1	39.8	–
FC12T9, 32W	2	75.5	–
FC16T9, 40W	1	38.9	–
FC16T9, 40W	2	96.2	–

T5 twin tube system input wattage

		Fixture input watts (for normal power ballasts)	
Fluorescent lamp description	Number of lamps	Energy saving magnetic ballast	Electronic ballast
FT18W TT5	1	22.9	19
FT18W TT5	2	43.9	42
FT18W TT5	3	62	50
FT24W TT5	1	30.1	27
FT24W TT5	2	67.4	52
FT27W TT5	1	31.7	–
FT27W TT5	2	65.67	40
FT27W TT5	3	–	60
FT36W TT5	1	51.2	37
FT36W TT5	2	83	70
FT39W TT5	1	53.3	48

		Fixture input watts (for normal power ballasts)	
Fluorescent lamp description	Number of lamps	Energy saving magnetic ballast	Electronic ballast
FT39W TT5	2	87.1	75
FT39W TT5	3	82	106
FT40W TT5	1	47.5	44
FT40W TT5	2	77	73.5
FT40W TT5	3	–	98
FT50W TT5	1	–	57.5
FT50W TT5	2	–	115
FT55W TT5	1	–	58
FT55W TT5	2	–	113
FT80W TT5	1	–	89

T4 compact flourescent lamps

		Fixture input watts (for normal power ballasts)	
Fluorescent lamp description	Number of lamps	Energy saving magnetic ballast	Electronic ballast
CFT5W/G23	1	9.9	–
CFT7W/G23	1	10.2	–
CFT7W/G23	2	16.3	16
CFT9W/G23	1	10.7	10
CFT9W/G23	2	26.4	20
CFQ9W/G23	1	10.2	–
CFQ9W/G23	2	27.8	–
CFQ10W/G24D	1	16.1	–
CFQ13W/G24D	1	17.6	–
CFQ13W/GX23	1	16	14
CFQ13W/GX23	2	31	30
CFT13W/GX23	1	15.8	–
CFT13W/GX23	2	–	25
CFTR13W	1	–	14
CFTR13W	2	–	25

		Fixture input watts (for normal power ballasts)	
Fluorescent lamp description	Number of lamps	Energy saving magnetic ballast	Electronic ballast
CFTR18W	1	–	16
CFQ18W	1	–	16
CFQ18W/G24D	1	22.9	19
CFQ18W/G24D	2	43	–
CFQ20W/GX32D	1	25.3	–
CF24T5DF	1	–	28
CF24T5DF	2	–	54
CFTR26W	1	–	28
CFQ26W/G24D	1	30.5	26
CFQ26W/G24D	2	52.4	–
CFQ27W/GX32D	1	31.7	–
CF36T5DF	1	–	35
CF36T5DF	2	–	70
CFS38W	1	–	31

T12 miniature flourescent lamps

Fluorescent lamp description	Number of lamps	Fixture input watts (for normal power ballasts) Energy saving magnetic ballast	Electronic ballast
FM6T2	2	–	15
FM8T2	1	–	11
FM8T2	2	–	20
FM11T2	1	–	14

Fluorescent lamp description	Number of lamps	Fixture input watts (for normal power ballasts) Energy saving magnetic ballast	Electronic ballast
FM11T2	2	–	28
FM13T2	1	–	17
FM13T2	2	–	33

Mercury vapor lamp

Mercury vapor lamp description	Number of lamps	Magnetic ballast
50W Med. Base	1	75
75W Med. Base	1	95
100W Med. Base	1	122
175W Med. Base	1	205
175W Mogul Base	1	205

Mercury vapor lamp description	Number of lamps	Magnetic ballast
250W Mogul Base	1	285
400W Mogul Base	1	454
400W Mogul Base	2	880
1,000W Mogul Base	1	1080

Metal halide lamp

Metal halide lamp description	Number of lamps	Magnetic ballast
35W Med. Base	1	43
50W Med. Base	1	64
70W Med. Base	1	86
100W Med. Base	1	126
150W Med. Base	1	188
100W Mogul Base	1	130
150W Mogul Base	1	188

Metal halide lamp description	Number of lamps	Magnetic ballast
200W Mogul Base	1	240
250W Mogul Base	1	295
310W Mogul Base	1	365
400W Mogul Base	1	457
600W Mogul Base	1	665
750W Mogul Base	1	840
1000W Mogul Base	1	1100

High pressure sodium lamp

High pressure sodium lamp description	Number of lamps	Magnetic ballast
35W Med. Base	1	43
50W Med. Base	1	64
70W Med. Base	1	86
100W Med. Base	1	126
150W Med. Base	1	188
100W Mogul Base	1	130
150W Mogul Base	1	188

High pressure sodium lamp description	Number of lamps	Magnetic ballast
200W Mogul Base	1	240
250W Mogul Base	1	295
310W Mogul Base	1	365
400W Mogul Base	1	457
600W Mogul Base	1	665
750W Mogul Base	1	840
1000W Mogul Base	1	1100

Pluse start metal halide lamp

Fixture input watts (for normal power ballasts)

Fluorescent lamp description	Number of lamps	Magnetic ballast	Energy saving magnetic ballast
50W Med. Base	1	72	62
70W Med/Mogul Base	1	90	85
100W Med/Mogul Base	1	128	118
125W Med/Mogul Base	1	150	141
150W Med/Mogul Base	1	189	173
175W Med/Mogul Base	1	208	189
200W Med/Mogul Base	1	232	218
250W Med/Mogul Base	1	290	272

Fixture input watts (for normal power ballasts)

Fluorescent lamp description	Number of lamps	Magnetic ballast	Energy saving magnetic ballast
320W Med/Mogul Base	1	370	342
350W Med/Mogul Base	1	410	375
400W Med/Mogul Base	1	465	425
450W Med/Mogul Base	1	506	480
750W Med/Mogul Base	1	812	–
1000W Med/Mogul Base	1	1080	–

High-bay flourescent systems

Fluorescent lamp description	Number of lamps	Energy saving magnetic ballast	Electronic ballast
F32T8 4′	4	146.76	112
F32T8 4′	6	210.30	168
F32T8 4′	8	268.40	220
F32T8 4′	12	440.38	336
F32T8 4′	16	587.04	448
F32T8 4′	18	660.42	511
F32T8 4′	20	773.80	560
F32T8VHO 4′	3	–	279

Fluorescent lamp description	Number of lamps	Energy saving magnetic ballast	Electronic ballast
F32T8VHO 4′	6	–	555
F32T8VHO 4′	8	–	740
F54T5HO 4′	2	–	117
F54T5HO 4′	3	–	179
F54T5HO 4′	4	–	234
F54T5HO 4′	6	–	358
F54T5HO 4′	8	–	468
F54T5HO 4′	10	–	585

Low-wattage T8 systems

Fixture input watts (for normal power ballasts)

Fluorescent lamp description	Number of lamps	Energy saving magnetic ballast	Electronic ballast
F32T8 4′ 25W	1	–	26
F32T8 4′ 25W	2	–	43
F32T8 4′ 25W	3	–	63
F32T8 4′ 25W	4	–	85
F32T8 4′ 28W	1	–	25
F32T8 4′ 28W	2	–	48

Fixture input watts (for normal power ballasts)

Fluorescent lamp description	Number of lamps	Energy saving magnetic ballast	Electronic ballast
F32T8 4′ 28W	3	–	72
F32T8 4′ 28W	4	–	97
F32T8 4′ 30W	1	39.6	31
F32T8 4′ 30W	2	82.1	54
F32T8 4′ 30W	3	–	77
F32T8 4′ 30W	4	–	104

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