

Lamp and Electrical Guide

Fluorescent - Data shown is typical and compiled from major ballast and lamp suppliers

Lamp Designation	Wattage (w)	Lamp Envelope	Base	Initial Lumens (lm)	Life (Hrs)	Source Efficacy (lm/W)*	Input Volts	Max Operating Current (Amps)**
QF	13	Quad Tube	G24q-1	900	12,000	69.2	120/277	.20/.07
	18			1,200	12,000	66.7		.21/.09
	26			1,710	12,000	65.8		.27/.12
FS	14	T-5	---	1,350	30,000	96.4	120/277	.21/.08
	21			2,100	30,000	100.0		.25/.11
	28			2,900	30,000	103.6		.30/.14
	35	T-5/HO	Mini Bi-pin	3,650	30,000	104.3	120/277	.34/.15
	24			2,000	30,000	83.3		.26/.13
	39			3,500	30,000	89.7		.39/.18
	54			5,000	30,000	92.6		.58/.25
80	7,000	30,000	87.5	.76/.33				
FCS	22	T-5 Circ	2GX13	1,800	16,000	81.8	120/277	.23/.12
	40			3,300	16,000	82.5		.37/.17
FHP	17	T-8	Med Bi-pin	1,400	40,000	82.0	120/277	.12/.06
	25			2,200	40,000	88.0		.15/.07
	32			3,100	36,000	96.9		.21/.09
Ballast provided with FHP32 source has a ballast factor of .71; FHP17 and FHP25 have a ballast factor of .74								
FO	17	T-8	Med Bi-pin	1,350	20,000	79.4	120/277	.17/.08
	25			2,150	20,000	86.0		.24/.11
	32			2,950	20,000	92.2		.30/.14
	40			3,725	20,000	93.1		.37/.16
FBO	24	T-8 Ulamp	Med Bi-Pin	1,925	20,000	80.2	120/277	.18/.08
	31			2,725	20,000	87.9		.23/.10
TF	26	Triple Twin Tube	---	GX24q-3	1,710	12,000	120/277	.26/.12
	32			GX24q-3	2,200	12,000		.33/.14
	42			GX24q-4	3,200	12,000		.45/.20
	57			GX24q-5	4,300	12,000		.55/.24
	70			GX24q-6	5,200	12,000		.67/.29
LF	13	Twin Tube	2GX7	820	10,000	63.1	120/277	.14/.06
	9	Twin Tube	G23	600	10,000	66.7		.10/.17 (npf)
F	18	Twin Long Tube	2G11	1,250	20,000	69.4	120/277	.19/.08
	27			1,800	12,000	66.7		.25/.12
	39			2,850	12,000	73.1		.38/.17
	40	---	---	3,150	20,000	78.8	120/277	.42/.19
	50			4,000	14,000	80.0		.53/.22
	55			4,800	10,000	87.3		.50/.22
	36	Inline Quad	2G10	2,800	10,000	77.8		.28/.14
	21	2D	GR10q-4	1,350	10,000	64.3	120/277	.31/.08 (npf)
	28			2,050	10,000	73.2		.45/.13 (npf)
38	2,850			10,000	75.0	.56/.15 (npf)		

Incandescent - Data shown is typical and compiled from major lamp suppliers

Lamp Designation	Wattage (w)	Lamp Envelope	Base	Initial Lumens (lm)	Life (Hrs)	Source Efficacy (lm/W)*	Input Volts	Max Operating Current (Amps)**
N	25	A19	---	210	2,500	8.4	120	0.21
	40			490	1,000	12.3		0.33
	60			840	1,000	14.0		0.50
	75			1,170	750	15.6		0.63
	100			1,690	750	16.9		0.83
	150	A21	Medium	2,780	750	18.5		1.25
	150	PAR38	Intermediate	1,700	2,000	11.3	120/277	1.25/.59
	300	PS25		6,200	750	20.7	2.50	
	40	T10		415	1,000	10.4	120	0.33
	60	---		630	1,000	10.5	0.50	
40	T6.5	420		750	10.5	0.33		

Solid State Lighting (LED)

LED System Watts = Nominal Source Watts x 1.18

Nominal Source Lumen values are provided for comparison of similar fixtures and are not meant to indicate actual fixture lumen output.

For more detailed information, see the fixture photometric report

* To allow comparison with other lamp data shown, this is source efficacy at expected operating temperature. Ballasts, drivers and optics will reduce this rating when inside a lighting fixture.
 ** Unless otherwise noted, Visa Lighting supplies High Power Factor Ballasts and Drivers with a ballast factor between .85 and 1.15. Operating current values will typically be less than listed.

Lamp and Electrical Guide

High Intensity Discharge (HID) - Data shown is typical and compiled from major ballast and lamp suppliers. Data is for coated lamps except for ceramic metal halide and par envelope

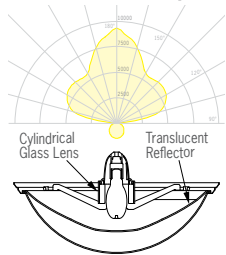
Lamp Designation	Wattage (w)	Lamp Envelope	Base	ANSI	Initial Lumens (lm)	Life (Hrs)	Source Efficacy (lm/W)*	Input Volts	Max Operating Current (Amps)*	
PH (Pulse Start Metal Halide)	50	ED17	Medium	M110	3,000	10,000	60.0	120/277	.47/.20	
	50				3,000	10,000	60.0		.65/.30	
	70				M98	5,300	12,000		75.7	.68/.31
	70					5,300	12,000		75.7	.85/.37
	100				M90	8,500	15,000		85.0	.93/.40
	100					8,500	15,000		85.0	1.15/.50
	150			M102/M142	12,600	15,000	84.0		1.39/.62	
	150				12,600	15,000	84.0		1.60/.70	
	175				M137/M152	16,500	15,000		94.3	1.70/.70
	175					16,500	15,000		94.3	1.75/.75
	250				M138/M153	21,500	15,000		86.0	2.75/1.20
	320					M138/M154	33,000		20,000	103.1
400	M138/M155	42,000	20,000	105.0	4.10/1.80					
H (Pulse Start Metal Halide)	39	PAR20	Medium	M130	2,100	10,000	53.8	120/277	.53/.24	
	70	PAR30		M98/M139	4,700	13,000	67.1		.81/.35	
	150	PAR38		M102/M142	9,100	12,000	60.7		1.60/.70	
H (Probe Start Metal Halide)	175	ED17	Mogul	M57	12,900	10,000	73.7	120/277	1.90/.80	
	250	ED28		M58	18,000	10,000	72.0		2.50/1.10	
	400			M59	35,000	15,000	87.5		4/1.75	
	250	ET18/T15		M58	22,000	17,500	88.0		2.50/1.10	
	CH (Ceramic Metal Halide)	35		R111	GX8.5	M130	1,600		11,000	37.0
70		M139	2,850			9,000	41.0	.67/.30		
20		M156	1,700			9,000	85.0	.22/.11		
39		T4	G8.5	M130	3,150	12,000	80.8	.38/.17		
39					3,150	12,000	80.8	.53/.24		
39					3,150	12,000	80.8	.38/.17		
39		T6	G12	M139	3,150	12,000	80.8	.53/.24		
70					6,200	9,000	88.6	.68/.31		
70					6,200	9,000	88.6	.85/.37		
70					6,600	12,000	94.3	.68/.31		
70					6,600	12,000	94.3	.85/.37		
150					14,000	12,000	93.3	1.39/.62		
150		M102/M142	14,000	12,000	93.3	1.60/.70				

Tungsten Halogen - Data shown is typical and compiled from major lamp suppliers

Lamp Designation	Wattage (w)	Lamp Envelope	Base	Initial Lumens (lm)	Life (Hrs)	Source Efficacy (lm/W)*	Input Volts	Max Operating Current (Amps)**			
T	20	MR16	GX5.3	500	2,000	25.0	120/277	.18/.08			
	35			2,000	.37/.16						
	37			5,000	.39/.17						
	50			1,250	2,000	25.0		.46/.20			
	35			PAR20	360	2,500		10.3	120	.30	
	50				570	2,500		11.4	120/277	.46/.20	
	50				630	3,000		12.6	.42/.19		
	75			PAR30	1,030	3,000		13.7	120	0.63	
	250			PAR38	3,600	2,880		14.4	120/277	2.08/.99	
	100			T4	Minican	1,600		2,000	16.0	120	0.83
	150					2,800		2,000	18.7		1.25
	250					5,000		2,000	20.0		2.08

Luminous Pendant HID Reflector Options (Carlton, Fairfax, Olympia)

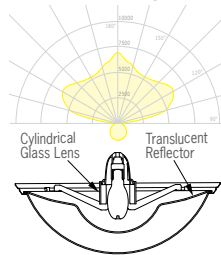
HID Narrow (NRD option)



Source: One Coated 400w ED28 Pulse Start Metal Halide rated at 42000 Lumens

Angle	0.0°
0	1496
25	1341
45	1026
65	635
85	296
105	4415
125	5737
145	5536
165	7740
180	9340

HID Wide (BRD option)



Source: One Coated 400w ED28 Pulse Start Metal Halide rated at 42000 Lumens

Angle	0.0°
0	1619
25	1470
45	1123
65	692
85	322
105	4746
125	6119
145	5182
165	5657
180	6810