

SPECIALTY LAMPS

PHOTO/PROJECTION LAMPS

Lamps Listed by ANSI Code 131-132

Cross Reference List of IEC
and ANSI Base Designations 133

Bulb Shapes and Base Types 133

STAGE/STUDIO/TV LAMPS

Lamps Listed by ANSI Code 134

High Volt SS/TV Halogen Lamps,
MSR Lamps Single-Ended
Gas Discharge 135

MSD, MHD and Sealed Beam,
MasterColor® CDM/SA (Short Arc) . . . 136

Micro Power Light (MPXL) 136

Bulb Shapes and Base Types 137

SPECIALTY LAMPS

Short Arc 138

Special Mercury 138

Medium Pressure Metal Halide 138

Low Pressure Pulsed Xenon
Discharge Lamps 138

Fluorescent Lamps with
Super Actinic Radiation 138

Fluorescent Lamps with
Actinic Radiation 138

Black Light Lamps 139

Special Blue (Therapeutic) Lamps . . . 139

Germicidal Sterilamp® Tubes
(Hot Cathode, Cold Cathode, Slimline) . . 140

Starters 140

Footnotes 141

Bulb Shapes 141

Tubular Quartz Infrared Lamps, Quartz
Infrared Heat Lamps, HeLeN Quartz
Infrared Heat Lamps 142-143

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PHILIPS

Let's make things better.

ANSI Code	Product Number 046677-	Std. Pkg.	Volts	Avg. Watts (Amps)	Bulb	Base	Rated Life (Hrs.)	Coil Type	L.C.L.		M.O.L.		Rated Approx. Lumens	Color Temp (K)	Operating Position	Fig No.
									In.	mm	In.	mm				
BHC	SEE DYS															
BRL	31627-3	24	12	50	T-3.5	G6.35	50	C-6	1.18	30.00	1.73	44.00	1500	3400	BDTH	13
BVE	23922-8	24	120	625	T-6	GY9.5	75	C-13D	1.75	44.50	3.50	89.00		3350	BDTH	11
DDL	31509-3	24	20	150	50 DICH	GX5.3	500	CC-6			1.75	44.50		3150	BDTH	25
DDM	23937-6	24	19	80	50 DICH	GX5.3	50	CC-6			1.75	44.50		3350	BDTH	25
DDS	31510-1	24	21	80	50 DICH	GX5.3	1000	CC-6			1.75	44.50		3125	BDTH	25
DED	31475-7	24	13.8	85	50 DICH	GX5.3	1000	C-8			1.75	44.50		3150	BDTH	25
DJT	31482-3	24	13.8	50	50 DICH	GX5.3	1000	CC-6			1.75	44.50		3150	BDTH	25
DNE	23939-2	24	120	150	57 DICH	G7.9	12	CC-6	0.63	15.90	1.94	49.20		3350	HORIZ	28
DNF	25241-1	24	21	150	57 DICH	GX7.9	25	CC-6	6.15	15.88	1.78	45.24		3400	HORIZ	28
DRA	23940-0	24	120	300	T-5	G6.35-20	300	CC-6	1.30	33.00	2.00	50.00	6900	3100	BDTH	12
DWZ	31750-3	100	30	375	T-4	R7s	1000	CC-6			3.17	80.60	7000	2900	ANY	18
DXN	31202-5	12	120	1000	T-5	R7s	30	CC-8			3.75	95.30	33,000	3400	ANY	21
DXW	31219-9	12	120	1000	T-5	R7s	150	CC-8			3.75	95.30	28,000	3200	ANY	21
DYS/DYV/BHC	31639-8	24	120	600	G-7	GZ9.5	75	CC-6	1.44	36.50	2.50	63.50	17,000	3200	HORIZ	15
DYV	SEE DYS															
DZE	SEE FDS															
EFM	31484-9	50	8	50	50 DICH	GZ6.35	50	C-6			1.65	42.00		3300	BDTH	25
EFN	31502-8	50	12	75	50 DICH	GZ6.35	50	C-6			1.65	42.00		3350	BDTH	25
EFF	31488-0	50	12	100	50 DICH	GZ6.35	50	C-6			1.65	42.00		3350	BDTH	25
EFR	31490-6	50	15	150	50 DICH	GZ6.35	50	C-6			1.65	42.00		3350	BDTH	25
EGY	31757-8	24	225	1000	T-7	GX6.35	15		1.50	38.00	2.40	61.00	31,000	3400	ANY	17
EHA	31641-4	24	120	500	T-6	GZ9.5	50	C-13D	1.44	36.50	3.00	76.20	11,000	3250	BDTH	14
EHJ	31758-6	100	24	250	T-4	G6.35	50	C-6F	1.30	33.00	2.17	55.00	9400	3400	BD	13
EHJ-X	23175-3	200	24	250	T-4	G6.35	50	C-6F	1.30	33.00	2.17	55.00	10,000	3400	BD	13
EJA	44142-8	24	21	150	50 DICH	GX5.3	40	CC-6			1.85	44.50		3350		25
EJL	31508-5	24	24	200	50 DICH	GX5.3	50	CC-6			1.85	44.50		3400	BDTH	25
EJM	23942-6	24	21	150	50 DICH	GX5.3	40	CC-6			1.75	44.50		3400	BDTH	25
EJN	SEE ELD															
EJV	33744-4	24	21	150	50 DICH	GX5.3	40	CC-8			1.75	44.50		3400	BDTH	25
EKE	31592-9	24	21	150	50 DICH	GX5.3	200	CC-6			1.75	44.50		3250	BDTH	25
EKZ	23945-9	24	10.8	30	50 DICH	GX5.3	200	CC-6			1.75	44.50		3100	BDTH	25
ELB	23946-7	24	30	80	50 DICH	GX5.3	15	CC-6			1.75	44.50		3400	BDTH	25
ELC	23103-5	24	24	250	50 DICH	GX5.3	50	CC-6			1.75	44.50		3400	BDTH	25
ELC-5	38166-5	24	24	250	50 DICH	GX5.3	500	CC-6			1.75	44.50		3400	BDTH	25
ELD/EJM	31618-2	24	21	150	50 DICH	GX5.3	40	CC-6			1.85	44.50		3350	BDTH	25
ELH	31619-0	24	120	300	50 DICH	GY5.3	35	CC-8			1.85	44.50		3350	BDTH	25
ELZ	23950-9	24	21	150	57 DICH	G7.9	60	CC-6	0.63	15.90	1.94	45.10		3350	HORIZ	28
ENG	23951-7	24	120	300	50 DICH	GY5.3	15	CC-8			1.75	44.50		3450	BDTH	25
ENH	31621-6	24	120	250	50 DICH	GY5.3	175	CC-8			1.75	44.50		3250	BDTH	25
ENX	31927-7	24	82	360	50 DICH	GY5.3	75	CC-8			1.75	44.50		3300	BDTH	25
ENX-5	20497-4	24	86	360	50 DICH	GY5.3	75	CC-8			1.75	44.50		3300	BDTH	25
ENZ	23954-1	24	30	50	50 DICH	GX5.3	25	CC-6			1.75	44.50		3400	BDTH	25
EPR	23959-0	24	120	500	T-6	G17t-7	50	C-13D	1.61	41.00	3.50	89.00		3250	BDTH	
EPW	23962-4	24	100	360	50 DICH	GY5.3	75	CC-8			1.75	44.50		3300	BDTH	25
EPX	23963-2	24	14.5	90	50 DICH	GX5.3	500	CC-6			1.75	44.50		3150	BDTH	25
EPZ	31496-3	50	13.8	50	50 DICH	GX5.3	1000	CC-6			1.75	44.50		3150	BDTH	25
ESA/FHD	26126-3	100	6	10	T-2.5	G-4	100	C-6	0.77	19.60	1.18	30.00	200	3200	ANY	3
ESB	25678-4	100	6	20	T-3	G-4	100	C-6	0.77	19.50	1.22	31.00	420	3200	ANY	3
ESY	23965-7	24	100	150	T-5	G6.35-15	200	CC-6	1.26	32.00	2.00	50.00	3300	3075	BDTH	13
ETA	31882-4	24	12	100	T-3.5	PG22d	50	C-6	0.71	18.00	1.89	48.00	3200	3400	BDTH	8
ETJ	20496-6	24	120	250	50 DICH	GY5.3	175	CC-8			1.75	44.50		3250	BDTH	25
EVA	25676-8	100	12	100	T-3.5	GY6.35	1000	C-6F	1.18	30.00	1.73	44.00	2500	3200	ANY	7
EVC	31884-0	100	24	250	T-5	G6.35	300	C-6F	1.30	33.00	2.24	57.00	8400	3200	ANY	13
EVD-X	23177-9	24	36	400	T-6	G6.35	50	C-6F	1.42	36.10	2.36	59.90	16,625	3400	BDTH	13
EVW	25284-1	24	82	250	50 DICH	GX5.3	50	CC-8			1.75	44.45		3300	BD TO 22° UP	25

♦ — SPECIAL ORDER ITEM, Consult Customer Service for minimum order quantities and delivery.

D — Lamps to be discontinued after inventory is depleted. Please check with customer service for availability.

Unless otherwise noted all dimensions are in inches. To convert inches to millimeters multiply by 25.4001.

Photo/Projection Lamps

ANSI Code	Product Number 046677-	Std. Pkg.	Volts	Avg. Watts (Amps)	Bulb	Base	Rated Life (Hrs.)	Coil Type	L.C.L.		M.O.L.		Rated Approx. Lumens	Color Temp (K)	Operating Position	Fig No.
									In.	mm	In.	mm				
EXR	25286-6	24	82	300	42 DICH	GX5.3	35	CC-8			1.75	44.45		3350	BDTH	27
EXR-5	23967-3	24	86	300	42 DICH	GX5.3	15	CC-8			1.75	44.50		3400	BDTH	27
EXW	23971-5	24	82	300	42 DICH	GX5.3	15	CC-8			1.75	44.50		3400	BDTH	27
EXY	20493-3	24	82	250	42 DICH	GX5.3	250	CC-8			1.75	44.50		3250	BDTH	27
EYB	23257-9	24	82	360	T-5	G5.3	75	CC-8	1.25	31.00	2.25	57.00	10,000	3250	BDTH	6
EYB-5	23972-3	24	86	360	T-5	G5.3	75	CC-8	1.25	31.80	2.25	57.00	10,000	3300	BDTH	6
EYH/FKT	23973-1	24	120	250	GT-7	G5.3	150	CC-6	1.44	36.5	2.50	63.00	6050	3050	BDTH	
FAL	23976-4	24	120	420	T-6	R7s	75	CC-8			2.63	66.70	11,000	3200	ANY	18
FCM	33269-2	12	120	1000	T-3	R7s	300	C-8			4.72	119.90	27,000	3200	HORIZ	20
FCR	26101-6	100	12	100	T-3.5	GY6.35	50	C-6F	1.18	30.00	1.73	44.00	3400	3250	BDTH	7
FCS	20607-8	200	24	150	T-4	G6.35	50	C-6F	1.18	30.00	2.00	50.80	6000	3400	BDTH	13
FDS/DZE	31655-4	24	24	150	T-4	GZ9.5	50	C-6F	1.32	33.40	2.25	57.00	5000	3400	BD	5
FDV	23978-0	24	24	150	T-5	G6.35-15	100	C-6F	1.18	30.00	2.00	50.00	4300	3300	BDTH	13
FFJ	23979-8	24	120	600	T-6	R7s	75	CC-8			2.63	66.70	16,500	3200	ANY	
FHD	SEE ESA															
FHM	26130-5	100	120	1000	T-3	R7s	300	C-8			4.72	119.90	26,000	3200	HORIZ	20
FHS	25305-4	24	82	300	42 DICH	GX5.3	70	CC-8			1.75	44.45		3300	BDTH	27
FHS-5	23981-4	24	86	300	42 DICH	GX5.3	70	CC-8			1.75	44.50		3300	BDTH	27
FHV	31671-1	24	32	150	T-4	G6.35	50	C-6F	1.81	30.00	1.96	50.00	5000	3400	BDTH	13
FJX	31499-7	50	13.8	30	50 DICH	GX5.3	500	C-8			1.77	44.90		3150		25
FKY	31924-4	24	6	9	35 DICH	G3.9	250	C-6			1.65	42.00			BDTH	26
FKT	SEE EYH															
FLN	31935-0	24	13.8	50	50 DICH	GX5.3	1000	C-8			1.75	44.50		3150	BDTH	25
FLT	23980-6	24	13.8	25	35 DICH	GZ4	400	CC-6			1.38	35.00		3100	HORIZ	23
FLW	20492-5	24	24	300	T-6	GY5.3	50	C-6F	1.3	33.00	2.17	55.00	10,450	3400	BD±15	13
FLZ	31929-3	24	18.7	125	50 DICH	GX5.3	120	CC-6			1.85	47.00			BDTH	25
FNT	20463-6	200	24	275	T-6	G6.35	75	C-6F	1.3	33.00	2.17	55.00	10,000	3400	BDTH	13
FVN	27676-6	24	40	150	T-4	G6.35	500	CC-8	1.25	31.75	2.00	50.80	3500	3400	BDTH	10
FXL	23030-0	24	82	410	50 DICH	GY5.3	50	CC-8			1.75	44.50		3300	BDTH	25
GDA	38684-7	100	120	500	T-3.5	R7s	75	CC-8			5.25	133.30	11,000	3200	ANY	19
JCR 15V,150W	24923-5	24	15	150	50 DICH	GZ 6.35	500	C-8			1.65	42.00			BDTH	25
5761	25713-9	100	6	30	T-3.5	G4	100	C-6F	0.77	19.60	1.22	31.00	765	3200	ANY	16
5972	31333-8	100	6	10	T-3	G4	200		0.95	24.00	1.50	38.00	150	3000	ANY	4
6605	25684-2	100	6	10	T-3	G4	2000	C-6	0.77	19.50	1.81	30.00	150	2700	ANY	3
7010	25702-2	10	120	300	T-6	GX6.35	150	C-6	1.28				7500	3200	ANY	
13077	34338-4	100	12	30	T-4.5	PG22d	50	C-6F	0.55	14.00	1.65	42.00	800	3200	ANY	9
13117	37614-5	50	17	150	50 DICH	GX5.3	1000	CC-6			1.85	47.00		3200	ANY	25
13139	33545-5	50	12	75	50 DICH	GX5.3	1000	C-8			1.65	42.00			BD±105	25
13165	44295-4	50	14	35	35 DICH	GZ4	50				1.50	38.00			BD±130	25
13288	22146-5	50	13.8	85	50 DICH	GX5.3	1000	C-8			1.81	46.00			BDTH	25
13298	35436-5	230	10	52	35 DICH	GZ4	20	CC-8			1.77	44.90			HORIZ+40	26
13347W	31453-4	100	6	15	T-6	BA15d	100	C-6F	1.75	44.50	2.13	54.10	210		HORIZ	△
13477R	31349-4	150	220	800	T-3.5	R7s	150				4.72	120.00	21,600	3200	HORIZ	22
13528	31504-4	360	6	15	35 DICH	GZ4	500	C-6			1.50	38.00			BD±105	26
* 13529	31507-7	360	6	9	35 DICH	GZ4	250	C-6			1.50	38.00			BD±105	26
13865	26423-4	50	12	75	35 DICH	G5.3	50				1.57	40.00			BD±105	23
14553	26391-3	230	10	52	35 DICH	GZ4	20				1.57	40.00			BD±105	26

△ — Not Shown

* — SPECIAL ORDER ITEM, Consult Customer Service for minimum order quantities and delivery.

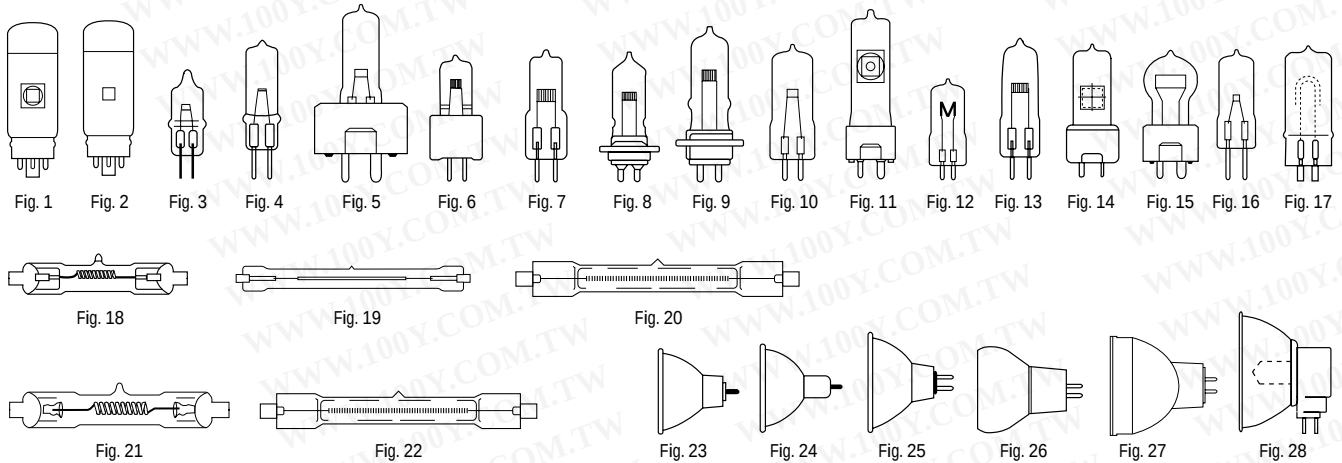
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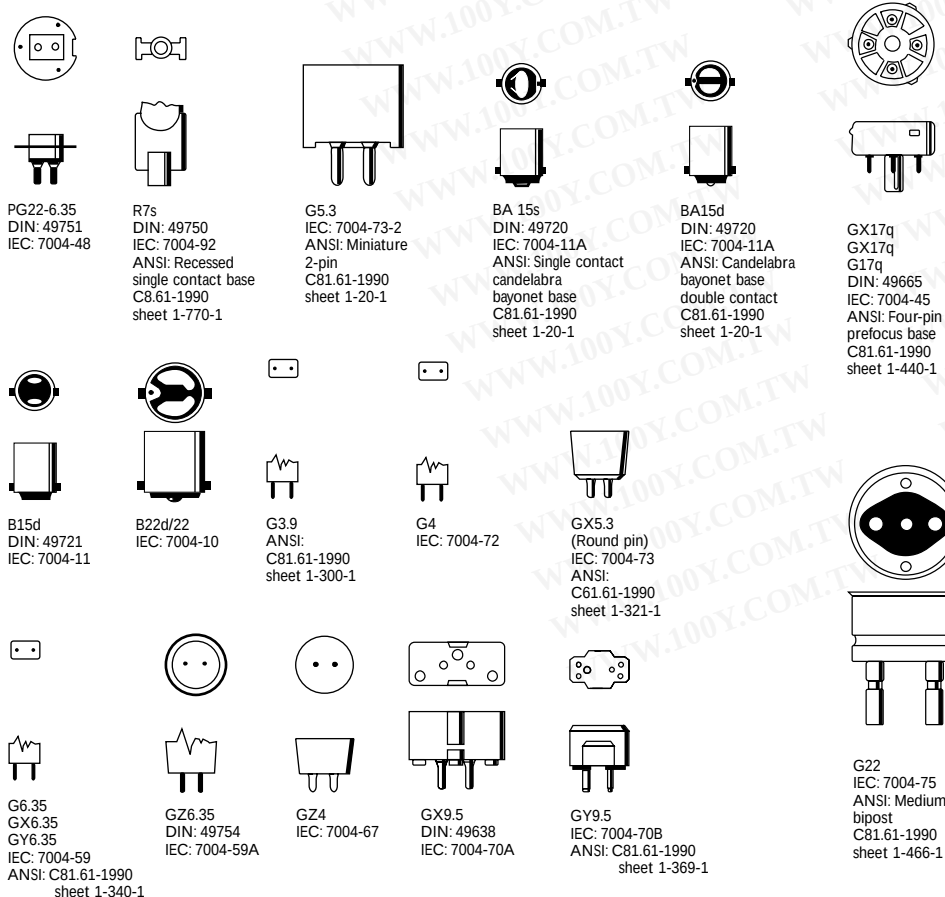
Cross Reference List of IEC and ANSI Base Designations:

IEC	ANSI	IEC	ANSI	IEC	ANSI	IEC	ANSI
E10/12	Miniature Screw	G13	Medium Bipin	G17t	3-Pin Prefocus	GY9.5	Prefocus Two-Pin (Higher Wattage)
E12/15	Candelabra Screw	G20	Mogul Bipin	G17q	4-Pin Prefocus	GZ9.5	Prefocus Two-Pin
E17/20	Intermediate Screw	R17d	Recessed D.C.	GX17q	4-Pin Prefocus (Low-Volt)	G22	Medium Bipost
E26s	Medium Screw S.C.	BA15s	Candelabra Bayonet S.C.	G5.3	Miniature Two-Pin	G38	Mogul Bipost
E26d	Medium Screw D.C.	BA15d	Candelabra Bayonet D.C.	G6.35	Glass Two-Pin	R7s	Recessed S.C.
E39	Mogul Screw	P28S	Medium Prefocus	GY6.35	Glass Two-Pin	GY5.3	Two-Pin Reflector (Low-Volt)
Fa8	Single-Pin	P40s	Mogul Prefocus	G9.5	Medium Two-Pin	GY5.3	Two-Pin Reflector
G5	Miniature Bipin						

Bulb Shapes (Not Actual Sizes)



Base Types (Not Actual Sizes)



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Stage/Studio/TV Lamps

ANSI Code	Product Number 046677-	Watts	Description	Volts	Base	M.O.L. (In.)	L.L. (In.)	L.C.L. (In.)	Mean Lumens	Average Rated Life (Hrs.)	Filament	Color Temp. (K)	Envelope Finish
BTL	31891-5	500	—	120	Med. Pf.	4½	—	2½ ₁₆	11,000	500	C-13D	3050	Clear
BTN	20481-8	750	—	120	Med. Pf.	4½	—	2½ ₁₆	17,600	500	C-13D	3050	Clear
BTP	30514-4	750	750T7Q/4CL/2P	120	Med. Pf.	4½	—	2½ ₁₆	21,000	200	C-13D	3200	Clear
BTR	30533-4	1000	1000T7Q/4CL/2P	120	Med. Pf.	4½	—	2½ ₁₆	28,500	250	C-13D	3200	Clear
CYV	31892-3	1000	—	120	Mog. Bipost	7¾	—	5	28,500	200	C-13D	3200	Clear
CYX	31893-1	2000	—	120	Mog. Bipost	8½	—	5	59,000	300	C-13D	3200	Clear
DPY	31922-8	5000	—	120	Mog. Bipost	11	—	6½	143,000	500	C-13	3200	Clear
DTY	32646-2	10000	—	120	Mog. Bipost	15½	—	10	285,000	300	C-13	3200	Clear
DWT	38711-8	1000	1000T6Q/CL	120	R7s	5%	1	—	23,400	2000	CC-8	3000	Clear
DWZ	31750-3	375	—	30	R7s	3%	—	—	7800	1000	CC-8	2900	Clear
DXN	31202-5	1000	1000T5Q/CL	120	R7s	3¾	1½ ₁₆	—	33,500	50	CC-8	3400	Clear
DXW	31219-9	1000	1000T5Q/CL	120	R7s	3¾	1½ ₁₆	—	28,000	150	CC-8	3200	Clear
DYS/DYV/BHC	31639-8	600	—	120	Two-Pin Pf.	2½	—	1½ ₁₆	17,000	75	CC-6	3200	Clear
EGE	26969-6	500	—	120	Med. Pf.	5½	—	3½	10,000	2000	CC-8	3000	Clear
EGG	26973-8	750	—	120	Med. Pf.	6	—	3½	15,000	2000	CC-8	3000	Clear
EGJ	26975-3	1000	—	120	Med. Pf.	6	—	3½	27,500	400	CC-8	3200	Clear
EGR	22563-1	750	—	120	Med. Bipost	5½	—	2½	21,000	150	C-13D	3200	Clear
EGT	31896-4	1000	—	120	Med. Bipost	5½	—	2½	28,500	250	C-13D	3200	Clear
EHD	26971-2	500	500Q/CL	120	Med. Two-Pin	3¾	—	2%	10,600	2000	CC-8	3000	Clear
EHG	26972-0	750	750Q/CL	120	Med. Two-Pin	4¾	—	2%	15,000	2000	CC-8	3000	Clear
EHT	37857-0	250	250Q/CL	120	Mini-Can	3½ ₂	—	1%	5000	2000	CC-8	3000	Clear
ESN	30759-5	100	100Q/CL	120	Mini-Can	2¾	—	1%	1900	1000	CC-2V	3000	Clear
ESS	31584-6	250	250Q/CL/DC	120	D.C. Bay.	3	—	1%	5000	2000	CC-8	3000	Clear
ETC	26676-7	150	150QCL/DC	120	D.C. Bay.	2%	—	1½	2800	200	CC-8	2900	Clear
ETF	29850-5	150	150Q/DC	120	D.C. Bay.	2%	—	1½	2700	2000	CC-8	2900	Frosted
ETG	34754-2	150	150Q/CL	120	Mini-Can	3	—	1½	2800	2000	CC-8	2900	Clear
ETH	29856-2	150	150Q	120	Mini-Can	3	—	1½	2700	2000	CC-8	2900	Frosted
EVR	38079-0	500	500Q/CL	120	Mini-Can	3¾	—	2	10,000	2000	CC-8	3000	Clear
FAL	23976-4	420	420T6QCL	120	R7s	2.63	—	—	11,000	75	CC-8	3200	Clear
FCL	20010-5	500	500T3Q/CL	120	R7s	4½ ₁₆	2	—	10,500	2600	C-8	3000	Clear
FCM	33269-2	1000	1000T3Q/CL	120	R7s	4½ ₁₆	2½	—	28,000	300	C-8	3200	Clear
FEL	26979-5	1000	1000Q/CL	120	Med. Two-Pin	4	—	2%	27,500	300	CC-8	3200	Clear
FER/EHS	31240-5	1000	1000T6Q/4CL	120	R7s	5%	¾	—	27,500	500	CC-8	3200	Clear
FEV	31904-6	200	200Q/CL/DC	120	D.C. Bay.	2½ ₁₆	—	1%	5500	50	CC-2V	3200	Clear
FEY	31916-0	2000	—	120	R7s	5%	1¼	—	57,000	400	CC-8	3200	Clear
FFJ	23979-8	600	600T6QCL	120	R7s	2.36	—	—	16,500	75	CC-8	3200	Clear
FFM	44235-0	420	—	120	R7s	3%	½	—	11,000	75	CC-8	3200	Clear
FFN	34350-9	1000	1000PAR64QVNSP	120	Ext. Mog. End	—	—	—	400,000	800	—	3200	Clear
FFP	34351-7	1000	1000PAR64QNSP	120	Ext. Mog. End	—	—	—	330,000	800	—	3200	Clear
FFR	34352-5	1000	1000PAR64QMFL	120	Ext. Mog. End	—	—	—	125,000	800	—	3200	Clear
FFS	34353-3	1000	1000PAR64QWFL	120	Ext. Mog. End	—	—	—	40,000	800	—	3200	Clear
FFT	31921-0	1000	—	120	R7s	6½	2½ ₁₆	—	27,000	300	C-8	3200	Clear
FHM	26130-5	1000	1000T3Q	120	R7s	4½ ₁₆	—	—	27,300	400	C-8	3200	Frosted
FLK	24861-7	575	115V 575W	115	G9.5	4	—	2%	16,500	300	CC-8	3200	Clear
GAC	23667-9	1000	6995/BP 120V 1000W	120	Two-Pin Pf.	3¾	—	1½ ₁₆	27,000	250	BP	3200	Clear
GAE	25816-0	2000	6994M/BP	120	Medium Bipost	5½ ₁₆	—	2½	55,000	500	BP	3200	Clear
GKV	36372-1	575	6986P	230	G9.5	4.33	—	2.38	15,000	400	C-13D	3200	Clear
GLA	29432-2	575	6992P	115	G9.5	3.97	—	2.38	—	1500	C-13D	3100	Clear
GLB	36373-9	575	6999P	230	G9.5	4.33	—	2.38	13,000	1500	C-13D	3200	Clear
GLC	28739-1	575	6989P	115	G9.5	3.97	—	2.38	—	400	C-13D	3200	Clear
GKV/SINK	36374-7	575	6986P/S	230	G9.5	4.33	—	2.38	15,000	400	C-13D	3200	Clear
GLA/SINK	29430-6	575	6992P/S	115	G9.5	3.97	—	2.38	—	1500	C-13D	3100	Clear
GLB/SINK	36375-4	575	6999P/S	230	G9.5	4.33	—	2.38	13,000	1500	C-13D	3200	Clear
GLC/SINK	29429-8	575	6989P/S	115	G9.5	3.97	—	2.38	—	400	C-13D	3200	Clear
—	22886-6	250	250Q/CL	130	Mini-Can	3½ ₂	—	1%	5000	2000	CC-8	3000	Clear
—	25702-2	300	7010	120	GX6.35	2½ ₃₂	—	1½ ₃₂	7500	150	M	3200	Clear

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High Volt SS/TV Halogen Lamps

ANSI Code	Product Number 046677-	Watts	Description	Volts	Base	M.O.L. (In.)	L.C.L. (In.)	Initial Lumens	Average Rated Life (hrs.)	Filament	Color Temp. (K)	Burning Position	Std. Pkg. Qty.	LIF	Monoplane Equivalent LIF
Single-Ended:															
FSL	25813-7	300	6872 P	230	GY9.5	3 $\frac{1}{2}$	1 $\frac{1}{2}$	7800	180	M Shape	3200	ANY	10	CP/81	—
GCV/GVH	25796-4	500	6820 P	230	GY9.5	3 $\frac{1}{2}$	1 $\frac{1}{2}$	11,000	360	Biplane	3000	BDTH	10	T/25	T/18
FRH	25806-1	500	6873 P	230	GY9.5	3 $\frac{1}{2}$	1 $\frac{1}{2}$	13,500	180	M Shape	3200	ANY	10	CP/82	—
GCK/GCT	25794-9	650	6823 P	230	GY9.5	3 $\frac{1}{2}$	1 $\frac{1}{2}$	14,500	600	Biplane	3050	BDTH	10	T/27	T/26
—	25820-2	650	6993 Z	230	G22	5 $\frac{1}{2}$	2 $\frac{1}{2}$	16,500	120	Biplane	3200	BDTH	10	CP/68	CP/39
FVA	25819-4	1000	6995 P	230	GX9.5	4 $\frac{3}{8}$	2 $\frac{1}{2}$	25,000	240	Biplane	3200	BDTH	10	CP/70	CP/24
FKD	25803-8	1000	6996 C	230	P28s	5	2 $\frac{1}{2}$	21,000	900	Biplane	3050	BDTH	10	T/20	T/14
FKK/FKP	25832-7	2000	6994Z	230	G38	8 $\frac{1}{4}$	5	50,000	480	Biplane	3200	BDTH	10	CP/73	CP/56
—	29093-2	5000	6963Z	230	G38	11.02	5	132,500	400	C-13D	3200	BDTH	1	CP/85	CP/29

ANSI Code	Product Number 046677-	Watts	Description	Volts	Base	M.O.L. (In.)	L.L. (In.)	Initial Lumens	Average Rated Life (hrs.)	Filament (2)	Color Temp. (K)	Burning Position	Std. Pkg. Qty.	LIF	Monoplane Equivalent LIF
Double-Ended:															
—	36417-4	500	PF821 R	230	R7S	5.31	3	11,000	75	CC-8	3200	HORIZ.	10	—	—
—	36418-2	500	PF821 R	240	R7S	5.31	3	11,000	75	CC-8	3200	HORIZ.	10	—	—
EME	31349-4 (1)	800	13477 R	230	R7s	4 $\frac{3}{8}$	2 $\frac{1}{2}$	21,600	150	S.C.	3200	HORIZ. ± 15	10	P2/11	—
DXX	25843-4 (1)	800	13162 R	230	R7s	3	$\frac{5}{8}$	21,600	75	C.C.	3200	HORIZ. ± 15	10	P2/13	—
6358R	27493-6	1250	6358 R	230	R7s	7 $\frac{1}{2}$	2 $\frac{1}{2}$	33,750	200	S.C.	3200	HORIZ. ± 15	10	P2/12	—

(1) — These lamp types must be operated with a separate rapid acting High Breaking-Capacity fuse, either 415V AC or 500V DC working in accordance with the supply in use as per end of table.

(2) — C.C. = coiled coil, S.C. = single coil, S.C.S = single coil segmented

MSR Lamps Single-Ended Gas Discharge

Description	Product Number 046677-	Watts	Lamp Voltage	Lamp Current (Amps)	Initial Lumens	Average Rated Life (Hours)(1)	Arc Length (mm)	CRI	Color Temperature (K)	Base
Hot Restrike (2)										
MSR 125 HR	35468-8	125	80	1.6	9400	200	4	92	6000	GZX 9.5
MSR 200 HR	32466-5	200	70	3.3	15,000	200	5	92	6000	GZY 9.5
MSR 400 HR	20477-6	400	70	6.9	32,000	750	6	92	6000	GZZ 9.5
MSR 575 HR	31160-5	575	95	6.95	49,000	750	7	95	6000	G 22
MSR 1200 HR	30270-3	1200	100	13.8	110,000	800	10	95	6000	G 38
MSR 1200 HR/C	36041-2	1200	100	13.8	110,000	800	10	95	6000	Special
MSR 2500 HR	30265-3	2500	115	25.6	240,000	500	14	95	6000	G 38
MSR 4000 HR	33579-4	4000	200	24	380,000	500	20	95	6000	G 38
MSR 6000 HR	36042-0	6000	125	55	570,000	300	24	95	6000	GY 38
Standard										
MSR 400	30268-7	400	70	6.9	32,000	1000	6	92	5900	GX 9.5
MSR 575/2	24528-2	575	95	6.95	49,000	1000	7	80	7200	GX 9.5
MSR700/2	28723-5	700	72	11	55,000	1000	8	80	7200	G 22/28x42
MSR 1200	30266-1	1200	100	13.8	110,000	800	10	95	5900	G 22/30x53
MSR 1200/2	28695-5	1200	90	13.8	105,000	800	10	85	7200	G 22/30x53
Short Arc										
MSR 400 SA	35365-6	400	54	8.4	30,000	750	3	75	5500	GY 9.5
MSR 700 SA	28718-5	700	72	11	54,000	500	4	80	5600	GY 9.5
MSR 1200 SA	29135-1	1200	100	13.8	96,000	750	7	80	5600	GY 22

(1) — Based on cycle 3.5 hours on/0.5 hour off, nominal wattage. Shorter life at short cycle operation.

(2) — Lamps must be used in fixtures designed for hot restrike.

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MSD Lamps

Description	Product Number 046677-	Watts	Lamp Voltage	Lamp Current (Amps)	Initial Lumens	Average Rated Life (Hrs.)(1)	Arc Length (mm)	CRI	Color Temperature (K)	Base
MSD 200	34592-6	200	68	2.95	13,500	2000 (3)	5	80	6000	GY 9.5
MSD 250	29152-6	250	90	3.6	17,000	2000	5	77	6700	GY 9.5
MSD 250/2	27721-0	250	90	3.6	17,000	2000	5	65	8500	GY 9.5
MSD 575	27479-5	575	95	6.1	45,000	3000	8	75	6000	GX 9.5
MSD 700	35364-9	700	72	11	55,000	3000	10	75	6000	G 22
MSD 1200	29134-4	1200	115	25.6	92,000	2000	14	80	6000	G 22

MHD Lamps

Description	Product Number 046677-	Watts	Lamp Voltage	Lamp Current (Amps)	Initial Lumens	Average Rated Life (Hrs.)(1)	Arc Length (mm)	CRI	Color Temperature (K)	Base
MHD 200	20985-8	203	63	3.5	12,500	2000	4.5	75	6600	Special Prefocus

Sealed Beam

ANSI Code	Product Number 046677-	Watts	Description	Volts	Base	Diameter		M.O.L.		Lumens	Average Rated Life (Hrs.)	Color Temp. (K)	Burning Position	Beam Shape
						(In.)	(mm)	(In.)	(mm)					
—	35619-6	500	500PAR56Q/NSP	120	Mog. End	7	179	5	127	88,000	4000	2950	ANY	Narrow Spot
—	35621-2	500	500PAR56Q/MFL	120	Mog. End	7	179	5	127	43,000	4000	2950	ANY	Medium Flood
—	35620-4	500	500PAR56Q/WFL	120	Mog. End	7	179	5	127	22,500	4000	2950	ANY	Wide Flood
—	27555-2	1000	1000PAR64Q/NSP	120	Ext. Mog. End	8	204	6	150	200,000	4000	3000	ANY	Narrow Spot
—	27556-0	1000	1000PAR64Q/MFL	120	Ext. Mog. End	8	204	6	150	80,000	4000	3000	ANY	Medium Flood
—	27558-6	1000	1000PAR64Q/WFL	120	Ext. Mog. End	8	204	6	150	31,000	4000	3000	ANY	Wide Flood
FFN	34350-9	1000	1000PAR64QVNSP	120	Ext. Mog. End	8	204	6	150	400,000	800	3200	ANY	Very Narrow Spot
FFP	34351-7	1000	1000PAR64QNSP	120	Ext. Mog. End	8	204	6	150	330,000	800	3200	ANY	Narrow Spot
FFR	34352-5	1000	1000PAR64QMFL	120	Ext. Mog. End	8	204	6	150	125,000	800	3200	ANY	Medium Flood
FFS	34353-3	1000	1000PAR64QWFL	120	Ext. Mog. End	8	204	6	150	40,000	800	3200	ANY	Wide Flood

MasterColor® CDM/SA (Short Arc)

ANSI Code	Product Number 046677-	Watts	Description	Volts	Base	M.O.L. (In.)	L.L. (In.)	L.C.L. (In.)	Mean Lumens	Average Rated Life (Hrs.)	CRI	Color Temp. (K)	Arc Gap (mm)
—	36039-6	150	CDM150SA/942	207	G12	5.71	—	2.21	12,900	5000	96	4200	6
†	38278-8	150	CDM-SA/R150942	207	Special	106	—	—	N/A	4000	96	4200	6

Micro Power Light (MPXL)

Product Number 046677-	Description	Type	Wattage	Life	Lumens	Color Temperature	CRI	Burning Position	M.O.L. (In.)
24958-1	MPXL DL35 50PK	DL35	35	5000	3600	3900	75	Horiz. ±10°	3
29001-5	MPXL DL50	DL50	50	3000	5300	3900	75	Horiz. ±10°	3
29468-6	MPXL RP50	RP50	35	5000	950	3900	75	Horiz. ±10°	2.6
29345-6	MPXL DUV	DUV	35	500	N/A	N/A	N/A	Horiz. ±10°	3

† — New Since Last Printing

(1) — Based on cycle 3.5 hours on/0.5 hour off, nominal wattage.
Shorter life at short cycle operation.

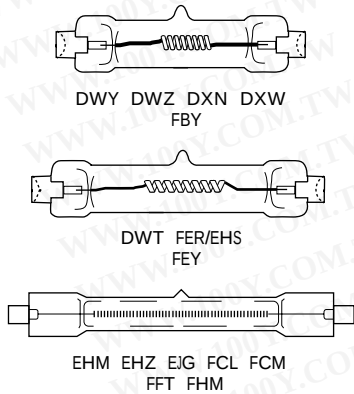
(2) — Lamps must be used in fixtures designed for hot restrike.

(3) — Vertical burning position life is 750 hours.

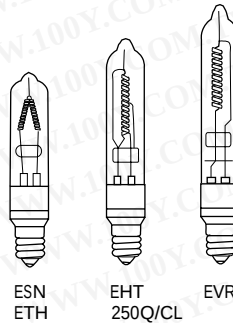
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Bulb Shapes and Base Types (Not Actual Sizes)

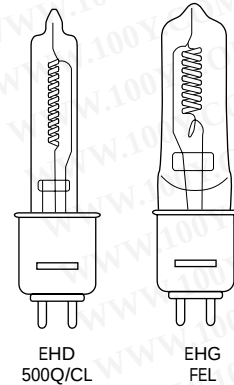
Double-Ended Tungsten Halogen Lamps
3 1/8, 3 3/4, 4 3/8, 4 11/16, 5 5/8 and 6 5/8 MOL R7s Base



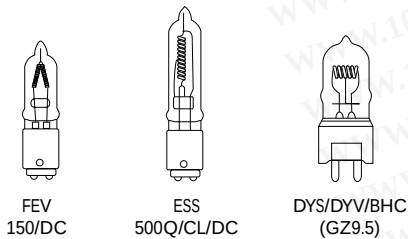
Mini-Can Base Single-Ended
Tungsten Halogen Lamps



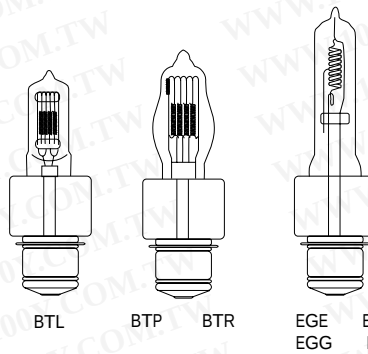
Medium Two-Pin
Tungsten Halogen Lamps (G9.5)



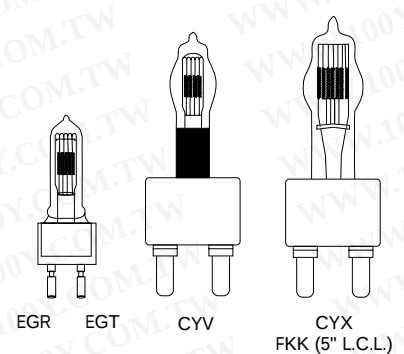
Double Contact Bayonet Bases (BA 15d)
Tungsten Halogen-Miniature Two-Pin Base (G5.3)
Tungsten Halogen-Two-Pin Prefocus Base (GZ 9.5)



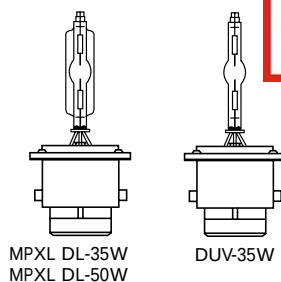
Medium Prefocus Lamps With 2 3/16 " L.C.L. (P28s)
Medium Prefocus Lamps With 3 1/2 " L.C.L. (P28s)



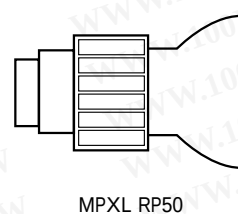
Medium Bipost Lamps With 2 1/2 " L.C.L. (G 22)
Mogul Bipost Lamps With 5" And 6 1/2 " L.C.L. (G 38)



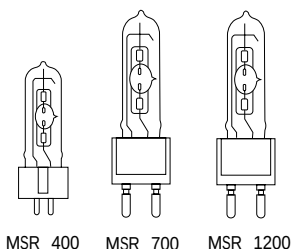
Micro Power Discharge



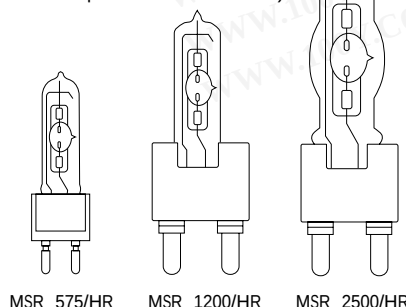
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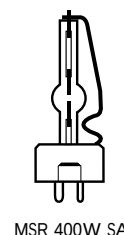
MSR Lamps
(Medium Source Rare Earth Lamps)



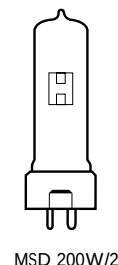
MSR/HR Lamps
(Medium Source Rare Earth
Lamps Hot Restrike Version)



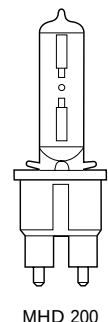
MSR Short Arc Lamps



MSD Lamps



MHD Lamps



Specialty Lamps

Short Arc Lamps

Product Number 046677-	Description	Nominal Watts	Lamp Voltage	Lumens	Base	L.C.L. (In.)	M.O.L. (In.)	Fig. No.
31644-8	SAH250B*D.C. Operation only †††	250	42	10,000	Med. Pf.	2.80	6	—

★ — Heat resisting glass bulb.

††† — Should be operated on a control circuit which supplies direct current to the lamp.

Special Mercury Lamps

Product Number 046677-	Description	Nominal Wattage	Lamp Voltage	Base	Length (mm)	Fig. No.
30866-8	HPR 125W	125	120	E27	222	—
30865-0	HPW 125W	125	120	E27	177	—

Medium Pressure Metal Halide Lamps

Product Number 046677-	Description	Nominal Wattage	Lamp Voltage	Nominal Length (mm)	Diameter (mm)	Fig. No.
44431-5	HPM 10/B	400	125	112	17	1-S
30832-0	HPM 12	460	120	98	21	2-S
44440-6	HPM 13	1000	125	147	27	1-S
44432-3	HPM 14	1200	525	200	17.5	2-S
30831-2	HPM 15	800-1950	240	203	32	2-S
30829-6	HPM 17	2000	243	175	27	2-S
30828-8	HPM 19	2000	200	179	27	1-S
30827-0	HPM 20	2900	350	236	27	1-S
44439-8	HPM 20C	2900	350	210	27	2-S
44448-9	HPA 400S	400	125	118	18	3-S
44447-1	HPA 400/30S	400	125	104	18	4-S
28751-6	HPA 400/30SD	400	133	104	14	4-S

Low Pressure Pulsed Xenon Discharge Lamps

Product Number 046677-	Description	Nominal Wattage	Lamp Voltage	Max. Length (mm)	Width or Diameter (mm)	Height (mm)	Fig. No.
30750-4	XOP 7 O/F	750	52	241	16.2	—	8-S
30749-6	XOP 15 O/F	1500	105	395	16.2	—	8-S

Fluorescent Lamps with Super Actinic Radiation

Product Number 046677-	Description	Nominal Wattage	Nominal Current (Amps)	Diameter (mm)	Nominal Length (cm)	Fig. No.
29747-3	TLD15W/03	15	0.34	26	45 18	—
30800-7	TL20W/03	20	0.37	38	60 24	9-S
22341-2	TL30W/03	30	0.41	38	92 36	—
30805-6	TLDK30W/03	30	0.81	26	45 18	10-S
30801-5	TL40W/03	40	0.43	38	122 48	9-S
30807-2	TLK40W/03	40	0.86	38	61 24	9-S
30808-0	TL140W/03	140	1.46	38	150 60	9-S

Fluorescent Lamps with Actinic Radiation

Product Number 046677-	Description	Nominal Wattage	Nominal Current (Amps)	Diameter (mm)	Nominal Length (cm)	Fig. No.
30812-2	TLK40W/05	40	0.86	38	161 24	9-S

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Black Light Lamps

These lamps are not intended and should not be used for therapeutic or diagnostic purposes.

Product Number 046677-	Ordering Code	Nominal Lamp Watts	Description	Nominal Length (In.)	Bulb	Base	Average Life Hours≈	UVA Watts	Fig. No.
35840-8	F4T5/BLB	4	Black Light-Integral Filter	6	T5	Min. Bipin	6000	.5	11-S
35841-6	F6T5/BLB	6	Black Light-Integral Filter	9	T5	Min. Bipin	7500	.9	11-S
35843-2	F8T5/BLB	8	Black Light-Integral Filter	12	T5	Min. Bipin	7500	1.2	11-S
31006-0	PL9W/10	9	Black Light	6½	PL-S	G23	10,000	1.9	16-S
20678-9	PL9W/08	9	Black Light-Integral Filter	6½	PL-S	G23	10,000	1.7	16-S
31436-9	F15T8/BL	15	Black Light	18	T8	Med. Bipin	7500	3.1	10-S
29271-4	F15T8/BLB	15	Black Light-Integral Filter	18	T8	Med. Bipin	7500	3.1	10-S
30118-4	F20T12/BL	20	Black Light	24	T12	Med. Bipin	9000	3.9	9-S
31435-1	F20T12/BLB	20	Black Light-Integral Filter	24	T12	Med. Bipin	9000	3.7	9-S
26271-7	F30T8/BLB	30	Black Light-Integral Filter	36	T8	Med. Bipin	7500	6.0	10-S
31439-3	F40BL	40	Black Light	48	T12	Med. Bipin	20,000	8.5	9-S
31440-1	F40BLB	40	Black Light-Integral Filter	48	T12	Med. Bipin	20,000	8.4	9-S

≈ — 3 or more hours per start

Special Blue (Therapeutic) Lamps

T12 Bipin

Product Number 046677-	Ordering Code	Nominal Lamp Watts	Description	Nominal Length (In.)	Average Life Hours	Approx. Initial Lumens	Design Lumens
31745-3	F20T12/BB	20	Special Blue	24	9000	225	180
20189-7	F40/BB	40	Special Blue	48	20,000	550	385

NOTE: Black light and Special Blue Lamps are not designed for general illumination.

WARNING: Ultraviolet Radiation

Wear protective eyewear in occupational situations and in close proximity to these lamps. Failure to may result in severe burns and long-term injury to the eyes.

Certain medications and chemicals may increase your sensitivity to ultraviolet radiation. Consult your physician.

These lamps can be harmful to skin and eyes in situations where people are exposed for extended periods of time.

Unshielded lamps should be installed at least 40 inches from people.

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Specialty Lamps

Germicidal Sterilamp® Tubes

Product Number 046677-	Description	Lamp Wattage (1)	UV-C Watts Δ	Bulb	Base	Useful Life Hours $\llcorner$	Nominal Length (In.)	Fig. No.
Hot Cathode								
36371-3	G4T5	4	.9	T5	Min. Bipin	6000	6	12-S
24485-5	G6T5	6	1.5	T5	Min. Bipin	8000	9	12-S
29930-5	G8T5	8	2.1	T5	Min. Bipin	8000	12 (3)	12-S
30864-3	G15T8	15	4.7	T8	Med. Bipin	8000	18 (3)	12-S
29268-0	G25T8	25	7.0	T8	Med. Bipin	8000	18 (3)	12-S
36016-4	G30T8	30	11.2	T8	Med. Bipin	8000	36 (3)	12-S
26269-1	TUV36W	36	15.3	T8	Med. Bipin	8000	48 (3)	12-S
29090-8	TUV75WHO	75	26.0	T8	Med. Bipin	8000	48 (3)	12-S
23596-0	TUV115W	115	38.8	T12	Med. Bipin	5000	48 (3)	12-S
38186-3	TUV PL-S 5	5	.18	PL-S	G23	8000	4	16-S
32512-6	PL-S9W/TUV	9	2.4	PL-S	G23	8000	6 $\frac{1}{2}$	16-S
21064-1	PL-L18W/TUV	18	5.5	PL-L	2G11	8000	8 $\frac{15}{16}$	15-S
26585-0	PL-L36W/TUV	36	12.0	PL-L	2G11	8000	16 $\frac{1}{16}$	15-S
29464-5	PL-L55W/TUV	55	17.0	PL-L	2G11	8000	22 $\frac{1}{2}$	15-S
Cold Cathode								
28807-6	782L-10	12 (5)	2.8	T5	Single Pin	9000	17 $\frac{1}{8}$ (3)	13-S
20339-8	782H-10	12	2.8	T5	Single Pin	9000	16 $\frac{1}{8}$ (3)	13-S
20340-6	782L-20	14	5.5	T5	Single Pin	9000	26 $\frac{1}{8}$ (3)	13-S
28884-5	782L-30	17	8.3	T5	Single Pin	9000	36 $\frac{1}{8}$ (3)	13-S
Slimline								
38542-7	TUV 11W	11	2.2	T5	2G11	8000	10	14-S
38541-9	TUV 16W	16	3.9	T5	2G11	8000	13	14-S
29267-2	TUV36T5/SP	39 (2)	15.0	T5/T6	Single Pin	9000	34	13-S
36209-5	TUV36T5 4P SE	39 (2)	15.0	T5/T6	2G11	9000	34	14-S
29269-8	TUV64T5/SP	75	31.0	T5/T6	Single Pin	9000	62	13-S
36217-8	TUV64T5 4P SE	75	31.0	T5/T6	2G11	9000	62	14-S

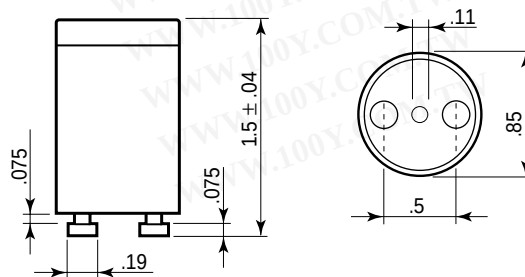
Starters

Product Number 046677-	Description	Circuit	Standard Package Quantity	Fluorescent Lamps
33117-3	S2 STARTER 25PK	Single 110-130V	25	4-22W
33118-1	S10 STARTER 25PK	Single 220-240V	25	4-85W
24699-1	S12 STARTER 500PK	Single 220-240V	500	115-140W

Δ — 100 Hour

$\llcorner$ — Lamp Life @ 85% UV-C Maintenance

Footnotes located on page 141



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(1) Wattages shown are for operation from a transformer or ballast, currently standard, under specified test conditions.

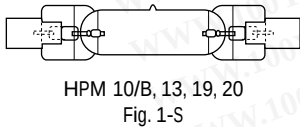
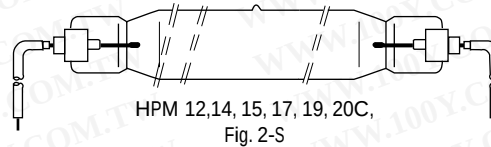
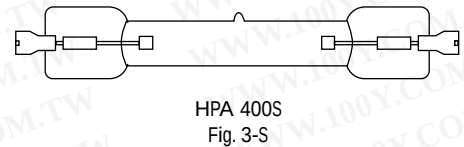
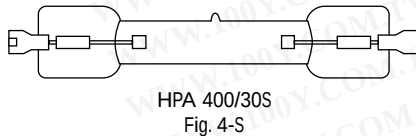
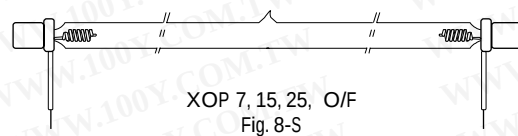
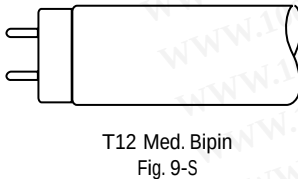
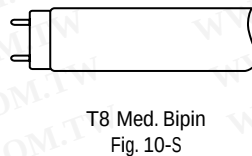
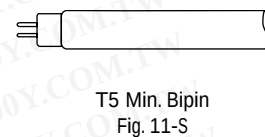
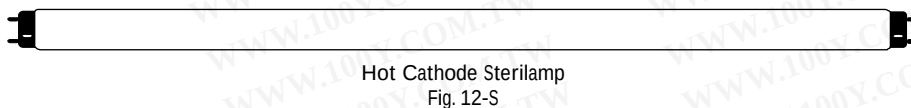
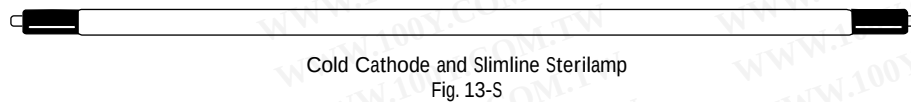
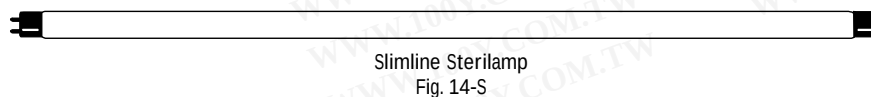
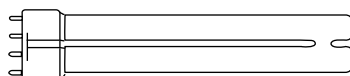
(2) Wattage shown is for lamp operating current of 420 ma. Wattage will vary at other operating currents as follows:
120 ma. — 17 watts
200 ma. — 25 watts
300 ma. — 32 watts.

(3) Approximate overall length including two standard lamp holders.

(4) Wattage shown is for lamp operating at 400 ma.

(5) Wattage shown is for lamp operating at 60 ma. Lamp may also be operated at 100 ma. — 20 watts.

Bulb Shapes (Not Actual Sizes)



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Tubular Quartz Infrared Lamps

Tubular quartz infrared heat lamps are designed for service other than illumination.

Unless otherwise noted,

1. Tubular quartz heat lamps should not be used in equipment where the seal temperatures exceed 350°F.
2. Operating position is HORIZONTAL.
3. R.S.C. Base = Recessed Single Contact



Fig. 1
(Y Base)
Leads Are Approximately 6"

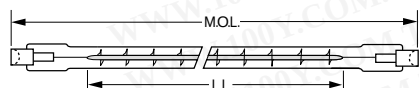


Fig. 2
(R7s Base)

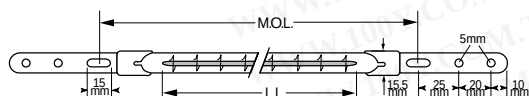


Fig. 3
(X Base)

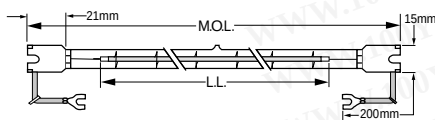


Fig. 4
(Z Base)

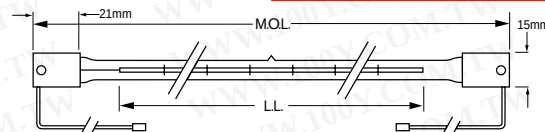


Fig. 5
(SK15 Base)
13844Z/98—Lead is 15.7", 14103Z/98—Lead is 9"

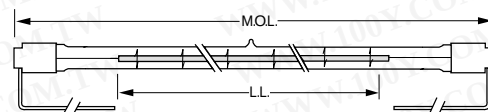


Fig. 6
(U Base)
Leads Are Approximately 6"

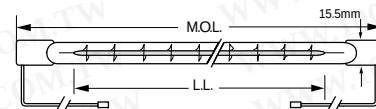


Fig. 7
(Y Base)
13169Y—Lead is 6.3", 13195Y—Lead is 7.8"

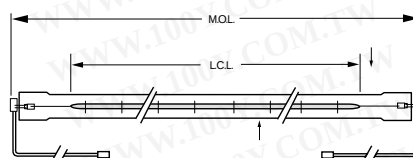


Figure 8
(V Base)
13136V, 13170V, 13138V, 14118V lead is 1.5"
13168V leads are 4.7" and 5.5"

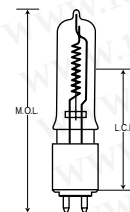


Fig. 9
(G9.5 Base)

Quartz Infrared Heat Lamps

Watts	Product Number 046677-	Description	Volts	Bulb	Base	Pkg. Qty.	Finish	Filament	L.L.		M.O.L.		Avg. Rated Life	Diam. (mm)	W/cm	Color Temp(K)	Burning Position	Fig. No.
									(In.)	(mm)	(In.)	(mm)						
200	36043-8	13912R	230	T-3	R7S	10	Clear	C-8	4.7	120	7.4	189	1000	11	16.7	2300	Horiz. ±15	2
375	20997-3	375T3/7	120	T-3	R7S	10	Trans.	C-8	5.0	127	8.6	217.6	5000	11	29.5	2500	Horiz. ±15	2
500	21651-5	500T3	120	T-3	U	10	Trans.	C-8	5.0	127	8.8	223.8	5000	11	39.4	2500	Horiz. ±15	6
	20994-0	500T3/7	120	T-3	R7S	10	Trans.	C-8	5.0	127	8.6	217.6	5000	11	39.4	2500	Horiz. ±15	2
	31203-3	13169X	120	T-3	X	10	Clear	C-8	5.6	142	9.5	241.0	5000	11	35.2	2450	Horiz. ±15	3
	31207-4	13169Y	120	T-3	Y	10	Clear	C-8	5.6	142	8.6	218.0	5000	11	30.3	2450	Horiz. ±15	7
	31205-8	13169X/98(1)	120	T-3	X	10	Reflector	C-8	5.6	142	9.5	241.0	5000	11	35.2	2450	Horiz. ±15	3
800	21680-4	800T3	120	T-3	U	10	Trans.	C-8	8.0	203	12.0	303.0	5000	11	39.4	2500	Horiz. ±15	6
1000	20995-7	1000T3	240	T-3	U	10	Trans.	C-8	10.0	254	13.8	350.8	5000	11	39.4	2500	Horiz. ±15	6
	21000-5	1000T3/CL	240	T-3	U	10	Clear	C-8	10.0	254	13.8	350.8	5000	11	39.4	2500	Horiz. ±15	6
	31213-2	13195X	235	T-3	X	10	Clear	C-8	10.7	272	14.6	370.0	5000	11	36.8	2450	Horiz. ±15	3
	31225-6	13195Y	235	T-3	Y	10	Clear	C-8	10.7	272	13.7	348.0	5000	11	36.8	2450	Horiz. ±15	7
	31267-8	13713Z/98(1)	235	T-3	Z	10	Reflector	C-8	10.7	272	14.0	357.5	5000	11	36.8	2450	Universal	4
	31260-3	13713X	235	T-3	X	10	Clear	C-8	10.7	272	14.6	370.0	5000	11	36.8	2450	Universal	3
	31216-5	13195X/98(1)	235	T-3	X	10	Reflector	C-8	10.7	272	14.1	360.0	5000	11	36.8	2450	Horiz. ±15	3
	29105-4	6990P	120		G9.5	10	Clear	CC-8	1.375	60.3	4.0	101.0	300	20		3100	Universal	9
	29107-0	6990P Long Life	120		G9.5	10	Clear	CC-8	1.375	60.3	4.0	101.0	450	20		3100	Universal	9

(1) — Lamps have white reflective coating on bulb

Quartz Infrared Heat Lamps, continued

Watts	Product Number 046677-	Description	Volts	Bulb	Base	Pkg. Qty.	Finish	Filament	L.L.		M.O.L.		Avg. Rated Life	Diam. (mm)	W/cm	Color Temp(K)	Burning Position	Fig. No.
									(In.)	(mm)	(In.)	(mm)						
1200	28853-0	13561Y/00	144	T-3	Y	10	Clear	C-8	6.1	155	9.0	228	5000	11	77.4	2400	Horiz. ±15	1
	27063-7	13561Y/98(1)	144	T-3	Y	10	Reflector	C-8	6.1	155	9.0	228	5000	11	77.4	2400	Horiz. ±15	1
1600	21676-2	1600T3	208	T-3	Y	10	Trans.	C-8	16.0	406	19.8	503	5000	11	39.4	2500	Horiz. ±15	6
	20996-5	1600T3	240	T-3	U	10	Trans.	C-8	16.0	406	19.8	503	5000	11	39.4	2500	Horiz. ±15	6
	21590-5	1600T3	277	T-3	U	10	Trans.	C-8	16.0	406	19.8	503	5000	11	39.4	2500	Horiz. ±15	6
	21003-9	1600T3/7	240	T-3	R7S	10	Trans.	C-8	16.0	406	19.6	498.5	5000	11	39.4	2500	Horiz. ±15	2
	21678-8	1600T3/CL	240	T-3	U	10	Clear	C-8	16.0	406	19.8	503	5000	11	39.4	2500	Horiz. ±15	6
	28875-3	13568Y/00	144	T-3	Y	10	Clear	C-8	6.1	155	9.0	228	5000	11	103.2	2500	Horiz. ±15	1
	27062-9	13568Y/98(1,2)	144	T-3	Y	10	Reflector	C-8	6.1	155	9.0	228	5000	11	103.2	2500	Horiz. ±15	1
	† 28378-8	1600T3/CL	277	T-3	U	10	Clear	C-8	16	406	19.8	503	5000	11	39.4	2500	Horiz. ±15	6
2000	31198-5	13168X	235	T-3	X	10	Clear	C-8	11.1	282	14.6	370	5000	11	71.4	2450	Universal	3
	31200-9	13168Z/98(1)	235	T-3	Z	10	Reflector	C-8	11.0	280	14.0	357.5	5000	11	71.4	2450	Universal	4
	21169-8	13213Y/00	235	T-3	Y	10	Clear	C-8	11.0	280	14.0	357.5	5000	11	71.4	2450	Horiz. ±15	1
	31252-0	13245X/98(1)	400	T-3	X	10	Reflector	C-8	16.2	410	20.0	508	5000	11	48.8	2450	Horiz. ±15	3
	31269-4	13765X	400	T-3	X	10	Clear	C-8	16.2	410	20.0	508	5000	11	48.8	2450	Universal	3
	26665-0	14103Z/98(1)	235	T-3	SK15	10	Reflector	C-8	11.0	280	14.1	360	5000	11	71.4	2450	Horiz. ±15	5
	21592-1	2000T3/1CL/HT	240	T-3	U	10	Clear	C-8	10.0	254	12.0	303	5000	11	78.8	2500	Horiz. ±15	6
	21648-1	2000T3/1CL	240	T-3	U	10	Clear	C-8	10.0	254	12.0	303	5000	11	78.8	2500	Universal	6
	† 36855-5	13765X/98	400	T-3	X	10	Reflector	C-8	16.1	410	20.0	508	5000	11	48.8	2450	Universal	3
	† 35703-8	13168V	240	T-3	V	10	Clear	C-8	11.0	280	13.8	350	5000	11	71.4	2450	Universal	8
2500	† 37811-7	13213Z/98	235	T-3	Z	10	Reflector	C-8	11.0	280	14.1	358	5000	11	71.1	2450	Horiz. ±15	4
	20998-1	2500T3	480	T-3	U	10	Trans.	C-8	25.0	635	28.8	731	5000	11	39.4	2500	Horiz. ±15	6
	21689-5	2500T3/7	480	T-3	R7S	10	Trans.	C-8	25.0	635	28.7	730	5000	11	39.4	2500	Horiz. ±15	2
	23874-1	2500T3/CL	480	T-3	U	10	Clear	C-8	25.0	635	28.8	731	5000	11	39.4	2500	Horiz. ±15	6
	† 28217-8	14120R	480	T-3	R7S	10	Clear	C-8	25.0	635	28.7	728	5000	11	39.4	2500	Horiz. ±15	2
3000	31244-7	13230X	400	T-3	X	10	Clear	C-8	27.6	700	31.4	798	5000	11	42.9	2450	Universal	3
	23648-9	13230X/98(1)	400	T-3	X	10	Reflector	C-8	27.6	700	31.4	798	5000	11	42.9	2450	Universal	3
3200	† 25435-9	3200T3/CL	240	T-3	U	10	Clear	C-8	32.1	815	41.8	1062	5000	11	39.3	2500	Universal	6
3800	22128-3	3800T3	575	T-3	U	6	Trans.	C-8	38.0	965	41.8	1062	5000	11	39.4	2500	Horiz. ±15	6
	22127-5	3800T3/CL	570	T-3	U	6	Clear	C-8	38.0	965	41.8	1062	5000	11	39.4	2500	Horiz. ±15	6
	22131-7	3800T3/CL/5	570	T-3	R7S+ Lead	6	Clear	C-8	38.0	965	41.8	1062	5000	12	39.4	2500	Horiz. ±15	2
	22129-1	3800T3/CL/UB	575	T-3	U	6	Clear	C-8	38.0	965	41.8	1062	5000	11	39.4	2500	Universal	6
4600	25654-5	13136V	400	T-3	V	10	Clear	C-8	9.3	236	12.0	303	1000	11	194.7	3000	Horiz. ±4	8
5000	36845-6	5000T3/1CL/HT	600	T-3	U	6	Trans.	C-8	25.1	638	28.8	731	5000	11	78.4	2500	Horiz. ±15	6
6000	29114-6	13170V	480	T-3	V	10	Clear	C-8	11.2	284	13.8	350	1000	11	211.3	2900	Horiz. ±4	8
	29123-7	13138V	480	T-3	V	10	Clear	C-8	9.3	236	12.0	303	1000	11	194.7	3000	Horiz. ±4	8
6850	29170-8	14118V	480	T-3	V	10	Clear	C-8	9.52	242	11.9	303	1000	11	28.3	3000	Horiz. ±4	8

† — New Since Last Printing

(1) — Lamps have white reflective coating on bulb

(2) — Lamps have fork terminals

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HeLeN Quartz Infrared Heat Lamps

Infrared HeLeN glare reduction lamps have a gold coating which reduces visible glare and raises the infrared output when compared to existing zone ruby sleeve heating lamps. These lamps feature a substantially lower visible glare level than either ruby and neutral density zone heating lamps. They have a narrower diameter and better color rendering than ruby sleeve lamps.

Watts	Product Number 046677-	Description	Volts	Bulb	Base	Pkg. Qty.	Finish	Filament	L.L.		M.O.L.		Avg. Rated Life	Diam. (mm)	W/cm	Color Temp(K)	Burning Position	Fig. No.
									(In.)	(mm)	(In.)	(mm)						
500	† 28836-5	15018U	120	T-3	U	10	HeLeN	C-8	5	127	8.8	223.8	5000	11	39.4	N/A	Horiz. ±15	6
1000	† 36516-3	15024Z	120	T-3	SK15	10	HeLeN	C-8	11	280	14.1	357.5	5000	11	35.7	N/A	Horiz. ±15	5
	† 28050-3	15007Z	235	T-3	SK15	10	HeLeN	C-8	11	280	14.1	357.5	7000	11	35.7	N/A	Horiz. ±15	5
	† 38175-6	15019U	235	T-3	U	10	HeLeN	C-8	10.7	272	13.7	347	7000	11	36.8	N/A	Horiz. ±15	6
	† 28925-6	15019Z	235	T-3	SK15	10	HeLeN	C-8	11	280	13.7	357.5	7000	11	35.7	N/A	Horiz. ±15	5
3000	† 249615	15012U	235	T-3	U	10	HeLeN	C-8	16.3	413	19.9	504	5000	11	72.6	N/A	Universal	6

† — New Since Last Printing