

Lamp Information

METAL HALIDE – PAR

ID #	Lamp Description	Initial Lamp Lumens	Mean Lumens	Average Rated Life	Visual Beam Spread (≈50% max CP)	Nadir Candlepower (Candelas)	0° Aiming Angle Beam Spread per Ft.	60° Aiming Angle Beam Spread per Ft. from Wall	CCT K	CRI
35W PAR20										
L-703P20FL	CDM35/PAR20/M/FL	2000	1600	9000	30°	5000	0.54	1.07W x 2.73H	3000	>80
L-703P20SP	CDM35/PAR20/M/SP	2000	1600	9000	10°	23000	0.17	0.35W x 0.72H	3000	>80
35W PAR30										
L-703P30FL	CDM35/PAR30L/M/FL	2200	–	9000	30°	8900	0.54	1.07W x 2.73H	3000	>80
L-703P30SP	CDM35/PAR30L/M/SP	2200	–	9000	10°	44000	0.17	0.35W x 0.72H	3000	>80
70W PAR30										
L-707P30FL	CDM70/PAR30L/M/FL	4850	–	9000	40°	10000	0.73	1.46W x 4.83H	3000	>80
L-707P30SP	CDM70/PAR30L/M/SP	4850	–	9000	10°	68000	0.17	0.35W x 0.72H	3000	>80
70W PAR38										
L-407P38FL	MP70PAR38/U/FL	3400	–	8500	35°	10000	0.63	1.26W x 3.59H	3000	70
L-407P38SP	MP70PAR38/U/SP	3400	–	8500	20°	3400	0.35	0.71W x 1.56H	3000	70
L-407P38WF	MP70PAR38/U/VWFL	3400	–	8500	65°	3000	1.27	2.55W x +100H	3000	70
100W PAR38										
L-410P38FL	MP100PAR38/U/FL	5800	–	8500	35°	12000	0.63	1.26W x 3.59H	3000	70
L-410P38SP	MP100PAR38/U/SP	5800	–	8500	20°	26000	0.35	0.71W x 1.56H	3000	70
L-410P38WFL	MP100PAR38/U/VWFL	5800	–	8500	65°	4500	1.27	2.55W x +100H	3000	70

COMPACT FLUORESCENT

ID #	Lamp Description	Initial Lamp Lumens	Mean Lumens	Average Rated Life	Visual Beam Spread (≈50% max CP)	Nadir Candlepower (Candelas)	0° Aiming Angle Beam Spread per Ft.	60° Aiming Angle Beam Spread per Ft. from Wall	CCT K	CRI
13W										
L-213D235	F13DBX23T4/SPX35	810	685	10000	—	—	—	—	3500	82
L-213D435	F13DBX/SPX35/4P	900	765	12000	—	—	—	—	3500	82
L-213S235	F13BX/SPX35/835	825	710	10000	—	—	—	—	3500	82
18W										
L-218S435	F18BX/SPX35	1200	1080	10000	—	—	—	—	3500	82
L-218T435	F18TBX/SPX35/A/4	1200	1010	12000	—	—	—	—	3500	82
23W										
L-223G827	EL23/R25/SW	1100	880	15000	—	—	—	—	2700	82
L-223G830	EL23/R25/VW	1100	880	15000	—	—	—	—	3000	82
26W										
L-226D235	F26DBXT4/SPX35	1710	1460	10000	—	—	—	—	3500	82
L-226D435	F26DBXT4/SPX35/4P	1710	1460	12000	—	—	—	—	3500	82
27W										
L-227S435	F27BX/SPX35/RS	1800	1620	12000	—	—	—	—	3500	82
32W										
L-232T435	F32TBX/SPX35/A/4P	2200	1870	10000	—	—	—	—	3500	82
39W										
L-239S435	F39BX/SPX35RS	2850	2510	12000	—	—	—	—	3500	82
42W										
L-242T435	CF42DT/E/IN/835	2752	—	10000	—	—	—	—	3500	82

2D FLUORESCENT

ID #	Lamp Description	Initial Lamp Lumens	Mean Lumens	Average Rated Life	Visual Beam Spread (≈50% max CP)	Nadir Candlepower (Candelas)	0° Aiming Angle Beam Spread per Ft.	60° Aiming Angle Beam Spread per Ft. from Wall	CCT K	CRI
21W										
L-2212435	F212D/835/4P	1350	1135	10000	—	—	—	—	3500	82
28W										
L-2282435	F282D/835/4P	2050	1720	10000	—	—	—	—	3500	82
38W										
L-2382435	F382D/835/4P	2850	2395	10000	—	—	—	—	3500	82

Values indicated are approximate. There will be some variation from lamp to lamp. The color temperature of incandescent lamps ranges from 2700–3100K. Consult factory for manufacturer of lamps.

Narrow Beam
< 20°

Medium Beam
20°–34°

Wide Beam
≥ 35°



Lamp Information

LINE VOLTAGE – INCANDESCENT

Catalog Number	Lamp Description	Average Rated Life	Visual Beam Spread (≈50% max CP)	Nadir Candlepower (Candelas)	0° Aiming Angle Beam Spread per Ft.	60° Aiming Angle Beam Spread per Ft. from Wall
PAR Lamp–Halogen						
50W						
50HP20FL	50PAR20H/FL25	2500	25°	1500	0.44	0.89W x 2.08H
50HP20NFL	50PAR20H/NFL30°	2500	30°	1200	0.54	1.07W x 2.73H
50HP20NSP	50PAR20H/NSP10°	2500	10°	6000	0.17	0.35W x 0.72H
50HP30FL	50PAR30H/FL40°	2500	40°	1300	0.73	1.46W x 4.83H
50HP30NSP	50PAR30/CAP/SPL/NSP9	2500	9°	8800	0.16	0.31W x 0.64H
50HP30LFL	50PAR30LH/FL40°	3000	40°	1000	0.73	1.46W x 4.83H
50HP30LSP	50PAR30LH/SP10°	3000	10°	7000	0.17	0.35W x 0.72H
75W						
75HP30FL	75PAR30/CAP/SPL/FL40	2500	40°	2100	0.73	1.46W x 4.83H
75HP30NSP	75PAR30/CAP/SPL/NSP9	2500	9°	15400	0.16	0.31W x 0.64H
75HP30SP	75PAR30H/SP10°	3000	10°	13000	0.17	0.35W x 0.72H
75HP30LFL	75PAR30LH/FL25°	3000	25°	3100	0.44	0.89W x 2.08H
75HP30LSP	75PAR30LH/SP10°	3000	10°	9000	0.17	0.35W x 0.72H
90W						
90HP38FL	90PARH/FL25°	2500	25°	4100	0.44	0.89W x 2.08H
90HP38SP	90PARH/SP10°	2500	10°	16000	0.17	0.35W x 0.72H
150W						
150P38FL	150PAR/FL 130V	750	30°	4500	0.54	1.07W x 2.73H
Reflector Lamp						
50W						
50R20*	50R20* (410 lumens)	2000	43°	510	0.79	1.58W x 5.90H
65W						
65BR30FL*	65R30/FL/LL* (725 lumens)	2500	64°	510	1.25	2.50W x +100H
65BR30SP*	65R30/SP/LL* (725 lumens)	2500	30°	1600	0.54	1.07W x 2.73H

LOW VOLTAGE (12V) – INCANDESCENT

MR11 bi-pin base–Halogen

20W						
20M11NFLBP	Q20MR11/NFL30°-FTC	3500	30°	600	0.54	1.07W x 2.73H
35W						
35M11SPBP	Q35MR11/SP20°-FTF	3500	20°	3000	0.35	0.71W x 1.56H
35M11NFLBP	Q35MR11/NFL30°-FTH	3500	30°	1300	0.54	1.07W x 2.73H
MR16 bi-pin base–Halogen						
20W						
20M16FLBP	Q20MR16/C/FL40°-BAB	5000	40°	525	0.73	1.46W x 4.83H
20M16NSPBP	Q20MR16/C/NSP15°-ESX	5000	15°	3750	0.26	0.53W x 1.11H
20M16VNSPB	Q20MR16/C/VNSP7°-EZX	3000	7°	7400	0.12	0.24W x 0.49H
42W						
42M16VNSPB	Q42MR16/C/VNSP9°-EZY	3500	9°	12300	0.16	0.31W x 0.64H
50W						
50M16FLBP	Q50MR16/C/FL40°-EXN	6000	40°	1700	0.73	1.46W x 4.83H
50M16NFLBP	Q50MR16/C/NFL25°-EXZ	6000	25°	3200	0.44	0.89W x 2.08H
50M16SPBP	Q50MR16/C/NSP15°-EXT	6000	15°	9100	0.26	0.53W x 1.11H
71W						
71M16FLBP	Q71MR16/C/FL40°-EYC	4000	40°	2200	0.73	1.46W x 4.83H
71M16NFLBP	Q71MR16/C/NFL25°-EYJ	4000	25°	5500	0.44	0.89W x 2.08H
71M16NSPBP	Q71MR16/C/NSP15°-EYF	4000	15°	11500	0.26	0.53W x 1.11H
PAR 36 screw terminal–Halogen						
36W						
36HP36NSP	36PAR36/CAP/NSP 13	4000	13°	3500	0.23	0.46W x 0.95H
36HP36VNSP	36PAR36/CAP/VNSP 5	4000	5°	17000	0.09	0.17W x 0.35H
36HP36WFL	36PAR36/CAP/WFL 32	4000	32°	1000	0.57	1.15W x 3.05H
50W						
50HP36NSP	50PAR36/H/SP8	4000	8°	30000	0.14	0.28W x 0.57H
50HP36VNSP	50PAR36/H/SP5°	4000	5°	35000	0.09	0.17W x 0.35H
50HP36WFL	50PAR36/H/FL30°	4000	30°	1300	0.54	1.07W x 2.73H
Quartz Halogen–T3						
5W						
5T3BP	Q5T3/CL (60 lumens)	2000	—	—	—	—
10W						
10T3BP	Q10T3/CL (140 lumens)	2000	—	—	—	—
20W						
20T3BP	Q20T3/CL/CD (350 lumens)	2000	—	—	—	—
Miniature						
13W						
93*	93*	700	—	—	—	—
18W						
1141*	1141*	1000	—	—	—	—
26W						
1156*	1156*	1200	—	—	—	—

* Non-halogen lamp. Lamps in this section available for one-time purchase with luminaire only.



Lamp Information

PULSE START METAL HALIDE LAMPS

ID #	Lamp Description	Bulb Type	Burning Position	Lumens ¹ V/H	Initial Mean Lumens	Rated Life ² V/H	Average CCT K	CRI
125W (ANSI-M150)								
L-612M	MH 125W/U/PS	ED17	U	12000/10800	8400	15000/11250	4000	65
L-612MG	MH 125W/C/U/PS	ED17	U	11400/10300	8000	15000/11250	3700	70
150W (ANSI-M102)								
L-615M	MH 150W/U/PS	ED17	U	14000/12600	10500	15000/11250	4000	65
L-615MG	MH 150W/C/U/PS	ED17	U	13300/12000	10000	15000/11250	3700	70
L-615MO	MP 150W/U/PS	EDX17	U	13300/12000	10000	15000/11250	4000	65
175W (ANSI-M152)								
L-617MSBU	MS 175W/BU/MED/PS	ED17	BU ±15°	17500/-	14000	15000/-	4000	65
L-617SBU	MS 175W/BU/PS	ED28	BU ±15°	17500/-	14000	15000/-	4000	65
L-617CSBU	MS 175W/C/BU/PS	ED28	BU ±15°	16600/-	13300	15000/-	3700	70
200W (ANSI-M136)								
L-620MSCV	MS 200W/C/V/MED/PS	ED17	V ±15°	20000/-	16000	12000/-	3700	70
L-620MSV	MS 200W/V/MED/PS	ED17	BU ±15°	21000/-	16800	12000/-	4000	65
L-620	MH 200W/U/PS	ED28	U	21000/18900	16800	15000/11250	4000	65
L-620C	MH 200W/C/U/PS	ED28	U	20000/18000	16000	15000/11250	3700	70
L-620VO	MP 200W/V/PS	ED28	V ±15°	20000/-	16000	15000/-	4000	65
L-620CVO	MP 200W/C/V/PS	ED28	V ±15°	19000/-	15200	15000/-	3700	70
250W (ANSI-M153)								
L-625HBD	MH 250W/HBD/PS	ED28	BD ±90°	25000/22500	20000	15000/11250	4000	65
L-625HBU	MH 250W/HBU/PS	ED28	BU ±90°	25000/22500	20000	15000/11250	4000	65
L-625CHBU	MH 250W/C/HBU/PS	ED28	BU ±90°	23800/21400	19000	15000/11250	3700	70
L-625BUO	MP 250W/BU/UVS/PS	ED28	BU ±15°	23800/-	19000	15000/-	4000	65
L-625CBUO	MP 250W/C/BU/UVS/PS	ED28	BU ±15°	22600/-	18100	15000/-	3700	70
300W (ANSI-M151)								
L-630P	MH 300W/U/ED28/PS	ED28	U	30500/27500	24400	20000+/15000	4000	65
L-630CPHBU	MH 300W/C/HBU/ED28/PS	ED28	BU ±90°	29000/26000	23200	20000+/15000	3700	70
L-630PBUI	MP 300W/BU/ED28/UVS/PS	ED28	BU ±15°	29000	23200	20000+	4000	65
L-630CPBUO	MP 300W/C/BU/ED28/UVS/PS	ED28	BU ±15°	27500	22000	20000+	3700	70
320W (ANSI-M154)								
L-632PSV	MS 320W/V/ED28/PS	ED28	V ±15°	33000	26400	20000+	4000	65
L-632CPSV	MS 320W/C/V/ED28/PS	ED28	V ±15°	31000	24800	20000+	3700	70
L-632PSBU	MS 320W/BU/ED28/PS	ED28	BU ±15°	34000	27200	20000+	4000	65
L-632CPSBU	MS 320W/C/BU/ED28/PS	ED28	BU ±15°	32300	25800	20000+	3700	70
L-632SV	MS 320W/V/ED37/PS	ED37	V ±15°	33000	26400	20000+	4000	65
L-632CSV	MS 320W/C/V/ED37/PS	ED37	V ±15°	31000	24800	20000+	3700	70
L-632PBUI	MP 320W/BU/ED28/UVS/PS	ED28	BU ±15°	32300/-	25800	20000+/-	4000	65
L-632BUI	MP 320W/BU/ED37/UVS/PS	ED37	BU ±15°	32300/-	25800	20000+/-	4000	65
L-632CBUI	MP 320W/C/BU/ED37/UVS/PS	ED37	BU ±15°	30600/-	24500	20000+/-	3700	70
L-632PH75	MH 320W/H75/ED28/PS	ED28	H ±75°	29700	23800	15000	4000	65
L-632H42	MH 320W/H75/ED37/PS	ED37	H ±75°	29700	23800	15000	4000	65
350W (ANSI-M131)								
L-635P	MH 350W/U/ED28/PS	ED28	U	37000/33300	29600	20000+/15000	4000	65
L-635CP	MH 350W/C/U/ED28/PS	ED28	U	35200/31700	28200	20000+/15000	3700	70
L-635	MH 350W/U/PS	ED37	U	37000/33300	29600	20000+/15000	4000	65
L-635C	MH 350W/C/U/PS	ED37	U	35200/31700	28200	20000+/15000	3700	70
L-635BUO	MP 350W/BU/UVS/PS	ED37	BU ±15°	35200	28200	20000+	4000	65
L-635CBUI	MP 350W/C/BU/UVS/PS	ED37	BU ±15°	33400	26700	20000+	3700	70
L-635PBUI	MP 350W/BU/ED28/UVS/PS	ED28	BU ±15°	35200	28200	20000+	4000	65
L-635CPBUO	MP 350W/C/BU/ED28/PS	ED28	BU ±15°	33400	26700	20000+	3700	70
L-635BDO	MP 350W/BD/UVS/PS	ED37	BD ±15°	35200	28200	20000+	4000	65
L-635CBDO	MP 350W/C/BD/UVS/PS	ED37	BD ±15°	33400	26700	20000+	3700	70
400W (ANSI-M155)								
L-640PSV	MS 400W/V/ED28/PS	ED28	V ±15°	44000	35200	20000+	4000	65
L-640SV	MS 400W/V/PS	ED37	V ±15°	44000	35200	20000+	4000	65
L-640CSV	MS 400W/C/V/PS	ED37	V ±15°	42000	33600	20000+	3700	70
L-640PBUI	MP 400W/BU/ED28/UVS/PS	ED28	BU ±15°	42000/-	33600	20000+/-	4000	65
L-640CPBUO	MP 400W/C/BU/ED28/UVS/PS	ED28	BU ±15°	40000/-	32000	20000+/-	3700	70
L-640BUI	MP 400W/BU/UVS/PS	ED37	BU ±15°	42000/-	33600	20000+/-	4000	65
L-640CBUI	MP 400W/C/BU/UVS/PS	ED37	BU ±15°	42000	33600	20000+/-	4000	65
L-640H75	MH 400W/H75/PS	ED37	H ±75°	40000	32000	15000	4000	65
L-640PH75	MH 400W/H75/ED28/PS	ED28	H ±75°	40000	32000	15000	4000	65
450W (ANSI-M144)								
L-645SBU	MS 450W/BU/PS	ED37	BU ±15°	50000/-	40000	20000+/-	4000	65
L-645CSBU	MS 450W/C/BU/PS	ED37	BU ±15°	47500/-	38000	20000+/-	3700	70
L-645BUO	MP 450W/BU/PS	ED37	BU ±15°	47500/-	38000	20000+/-	4000	65
L-645CBUI	MP 450W/C/BU/PS	ED37	BU ±15°	45200/-	36200	20000+/-	3700	70
750W (ANSI-M149)								
L-675CVBU	MVR750/C/V/BU/PA	BT37	VBU	72000	54000	16000	3700	70
L-675SHBU	MS750/PS/BU-HOR/BT37	BT37	BU ±90°	80000/72000	60000/54000	16000/12000	4000	65
L-675VBU	MVR750/VBU/PA	BT37	VBU	82000	60000	16000	4000	65
1000W (ANSI-M141)								
L-699P	M1000/U/PS/BT37	BT37	U	110000/107800	96000/86300	15000/9000	3800	65
L-699SHTB	MS 1000W/HOR/T25/PS	T25	H ±45°	110000	77000	10000	3400	65

¹ Initial lumens at 100 hours

² Average rated life at 10 hours operation/start

⌀ Reduced envelope lamp.



Lamp Information

METAL HALIDE LAMPS

ID #	Lamp Description	Bulb Type	Burning Position	Lumens ¹ V/H	Initial Mean Lumens	Rated Life ² V/H	Average CCT K	CRI
50W (ANSI-M110)								
L-405M	MH 50W/U/PS	ED17	U	3400/3100	2200	10000/7500	4000	65
L-405MC	MH 50W/C/U/PS	ED17	U	3200/2900	2100	10000/7500	3700	70
L-405MCO3K	MP 50W/C/U/UVS/PS/3K	EDX17	U	3000/2700	2000	10000/7500	3200	70
70W (ANSI-M98)								
L-407M	MH 70W/U/PS	ED17	U	5600/5000	3600	15000/11250	4000	65
L-407MC	MH 70W/C/U/PS	ED17	U	5300/4800	3400	15000/11250	3700	70
L-407MCO3K	MP 70W/C/U/UVS/PS/3K	EDX17	U	5000/4500	3300	15000/11250	3200	70
100W (ANSI-M90)								
L-410M	MH 100W/U/PS	ED17	U	9000/8100	5900	15000/11250	4000	65
L-410MC	MH 100W/C/U/PS	ED17	U	8500/7700	5500	15000/11250	3700	70
L-410MCO3K	MP 100W/C/U/UVS/PS/3K	EDX17	U	8100/7300	5300	15000/11250	3200	70
175W (ANSI-M57)								
L-417M	MH 175W/U/MED	ED17	U	14000/12600	9100	10000/7500	4000	65
L-417MC	MH 175W/C/U/MED	ED17	U	13300/12000	8600	10000/7500	3700	70
L-417	MH MVR175W/U	ED28	U	13600/11700	8800/7400	6000/10000	4000	65
L-417C	MH MVR175W/C/U	ED28	U	12900/11900	8400/7900	6000/10000	3900	70
250W (ANSI-M58)								
L-425	MH MVR250W/U	ED28	U	20800/19100	13500/12400	6000/10000	4200	65
L-425C	MH MVR250W/C/U	ED28	U	19800/18200	13000/11600	6000/10000	3900	70
400W (ANSI-M59)								
L-440P	Φ MH 400W/U/ED28	ED28	U	36000/32400	23400	20000/15000	4000	65
L-440	MH MVR400W/U	ED37	U	36000/33100	23500/22100	20000/15000	4000	65
L-440C	MH MVR400W/C/U	ED37	U	35000/32200	23000/19300	20000/15000	3700	70
L-440SH	MS 400W/HOR	ED37	H ±45°	-/40000	26000	-/20000	4000	65
1000W (ANSI-M47)								
L-499P	Φ MH 1000W/U/BT37	BT37	U	105000/94500	68300	12000/9000	4000	65
L-499	MVR 1000W/U	BT56	U	108000/100280	86000/79000	15000/11000	4000	65
L-499C	MVR 1000W/C/U	BT56	U	105000/96600	80000/73000	15000/11000	3700	65
1500W (ANSI-M48)								
L-495	MH MVR1500W/U/SPORTS	BT56	U	178000/170000	160000/140000	3000	4000	65

HIGH PRESSURE SODIUM LAMPS

50W (ANSI-S68)								
L-505M	LU50/MED	B17	U	4000	3600	24000	1900	22
70W (ANSI-S62)								
L-507M	LU70/MED	B17	U	6400	5450	24000	1900	22
L-507	LU70	ED23-1/2	U	6400	5450	24000	1900	22
100W (ANSI-S54)								
L-510M	LU100/MED	B17	U	9500	8550	24000	2000	22
L-510	LU100	ED23-1/2	U	9500	8550	24000	2000	22
150W (ANSI-S55)								
L-515M	LU150/MED	B17	U	16000	14400	24000	2000	22
L-515	LU150/55	ED23-1/2	U	16000	14400	24000	2000	22
250W (ANSI-S50)								
L-525	LU250	ED18	U	28000	27000	24000	2100	22
400W (ANSI-S51)								
L-540	LU400	ED18	U	51000	45000	24000	2100	22
1000W (ANSI-S52)								
L-599	LU1000	E25	U	140000	126000	24000	2100	22

¹ Initial lumens at 100 hours

² Average rated life at 10 hours operation per start

Φ Reduced envelope lamp.

Lamp Description Key

55	Mogul Base 150W HPS	ED28	Elliptical Dimpled 3-1/2" Diameter	SPORT 60	High Output	PA	Pulse Arc
3K	3200 Kelvin	LU	3-1/2" Diameter	LU	High Pressure Sodium	PS	Pulse Start Metal Halide
BD	Base Down	ED37	Elliptical Dimpled 4-5/8" Diameter	MED	Medium Base	SBY	Standby
BT37	Blown Tubular 4-5/8" Diameter	HBD	Horizontal to BD	MH	Metal Halide	T25	Tubular 3-1/8" Diameter
BU	Base Up	HBU	Horizontal to BU	MP	Protected MH-Open Rated	U	Universal
C	Coated	HOR	Horizontal	MS	Super MH	UVS	UV Shield
D	Diffuse			MVR	Multi-Vapor	V	Vertical (BU and BD)

