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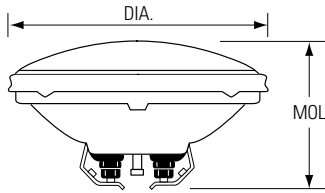
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## BULB IDENTIFICATION



DIA. in.: Diameter of bulb at widest point.

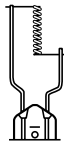
MOL in.: Maximum Overall Length including base or pins.

LCL in.: Distance between the center of the filament and the Light Center Length reference plane.

Note: Lamp drawings are not drawn to scale. Be sure to check size and dimension information when identifying each lamp.

To convert inches to millimeters, multiply the dimension (in inches) by 25.4 (i.e. 1.5" x 25.4 = 38.1 mm).

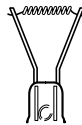
## FILAMENT IDENTIFICATION



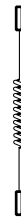
**C-8**  
**CC-8**



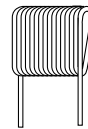
**C-2V**  
**CC-2V**



**C-6**  
**CC-6**



**CC-8**



**C-6**  
**Oval**

## BASE IDENTIFICATION



**2-Pin**  
**(Round)**  
**GX5.3**



**Can DC**  
**Bay**



**2-Pin**  
**GY6.35**



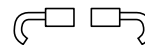
**Recessed**  
**Single**  
**Contact**  
**R7s**



**Screw**  
**Terminals**



**4" Leads**



**1" Ribbon**  
**Leads**



**6" Flex**  
**Leads**



**2-Pin**  
**GU4**



**2-Pin**  
**GU5.3**



**2-Pin**  
**G4**



**Turn & Lock**  
**GU7**



**GU10**



**G8**



**G9**



**2-Pin Pf**



**Min**  
**Screw**  
**E10**



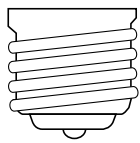
**DC Bay**  
**BA15d**



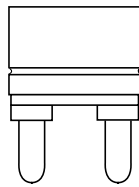
**Min Cand**  
**E11**



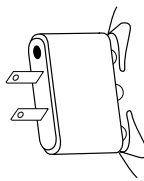
**Med**  
**Screw**  
**E26**



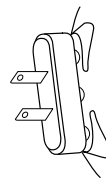
**Mog**  
**Screw**  
**E39**



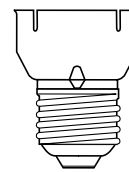
**Mogul**  
**BiPost**  
**G38**



**Ext. Mog**  
**End Pr**  
**GX16d**



**Mog End**  
**PR**  
**GX16d**



**Med**  
**Skirted**  
**E26/50x39**



## INTRODUCTION

Halogen lamps provide a small, highly efficient white light source with excellent color rendering. Unlike standard incandescent lamps, halogen lamps use a halogen gas which allows the bulbs to burn more intensely without sacrificing life.

Compared to incandescent lamps, halogen lamps provide:

- Crisp, white light
- Excellent beam control
- High lumen maintenance
- Energy savings
- Compact size
- Long life

## PRODUCT INFORMATION

### PAR38\*

#### **Retail HIR™ (PAR38) (pg 2-5)**

- Up to 42% more efficient
- Up to 27% energy savings
- Up to 60% longer life – 4000 hours

#### **HIR XL® UltraLong Life (PAR38) (pg 2-5)**

- Up to 13% energy savings
- Ultra long life – 6000 hours

#### **HIR™ (PAR38) (pgs 2-5 to 2-6)**

- Up to 28% more efficient
- Up to 22% energy savings
- Up to 20% longer life – 3000 hours

#### **Silver Saver™ (PAR38) (pg 2-6)**

- Up to 14% more efficient
- Up to 12% energy savings
- Up to 20% longer life – 3000 hours

#### **Halogen Plus (PAR38) (pgs 2-6 to 2-7)**

- Longer life than standard halogen – 2500 hours
- Wide variety of wattages and beam spreads

#### **Standard Halogen (PAR38) (pg 2-7)**

- Crisp, white light
- Life – 2000 hours

#### **Quartzline® (PAR38) (pg 2-7)**

- High light output for long throws (250 watt)
- Long life – 4200 hours

### COMPACT PAR

#### **Compact HIR™ (PAR30) (pg 2-7)**

- Most efficient PAR30
- Long life – 4000 hours

#### **Long Neck PAR30 Halogen (PAR30L) (pgs 2-7 to 2-8)**

- Energy efficient replacement for R30 lamps
- Ideal for recessed fixtures

#### **Compact PAR Halogen (PAR20/PAR30) (pg 2-8)**

- Small size for “low profile” fixture
- Energy efficient replacement for R20/R30 lamps
- Long life – 3000 hours

#### **Diamond Precise® Electronic (MR16) (pg 2-8)**

- 58% energy savings vs 50PAR20/50R20
- 2X longer life than 50PAR20/50R20 – 5000 hours
- Precise beam control, 90% lumen maintenance
- 120V Edison base, fully dimmable

### MR

#### **Turn & Lock (TAL) ConstantColor® (MR16) (pg 2-10)**

- User-friendly base... easy to install and remove
- Over 90% maintained light over life
- No color shift
- Suitable for use in open fixtures

#### **ConstantColor® Precise™ Cover Glass (MR16) (pgs 2-10 to 2-11)**

- Cover glass lens protects bulb from dust and dirt
- Suitable for use in open fixtures

#### **ConstantColor® Precise™ (MR16) (pg 2-11)**

- Precise beam control
- No color shift
- Over 90% maintained light output over life
- Long life – up to 6000 hours (50-watt)

#### **Precise™ Cover Glass IR (MR16) (pg 2-11)**

- Energy saving MR16
- 4000 hour lamp life

#### **Standard MR (MR16/MR11) (pgs 2-11 to 2-12)**

- Small size for “low profile” look
- Crisp, white light

### LINEAR QUARTZ

#### **Linear Quartzline® HIR™ (pg 2-13)**

- 30%-40% energy cost savings vs. standard quartz lamps
- 95% maintained light output over life
- Cooler operation increases fixture life



## HEADINGS IN THIS CATALOG SECTION

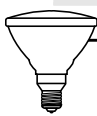
The following terms and descriptions can help you when checking Halogen lamp specifications and when ordering products. Within each product line, lamps are divided into families. Within families, lamps are listed by wattage. In each of these groups, lamps are listed alphabetically by bulb shape.

<b>MOL in.:</b> Maximum Overall Length in inches.		<b>LCL in.:</b> Distance between the center of the filament and the Light Center Length reference plane, in inches.	
<b>Filament Design:</b> Filaments are designated by a letter combination in which C is a coiled wire filament, CC is a coiled wire that is itself wound into a larger coil, and SR is a straight ribbon filament. Numbers represent the type of filament-support arrangement.		<b>Life - Hours:</b> Life (as defined by FTC Lamp Label Rules) is rated life in hours.	
<b>Energy Used - Nominal Watts:</b> Energy Used (as defined by FTC Lamp Label Rules). To estimate energy consumption (kWh), multiply watts x hours of use and divide by 1000.		<b>Light Output - Lumens:</b> Light output (as defined by FTC Lamp Label Rules) is rated lumens.	
<b>Case Quantity:</b> Number of product units packed in a case.		<b>Reference Color Temperature Kelvins (K):</b> "Warmth" or "Coolness" of the lamp, measured in Kelvins (K). The higher the temperature, the cooler the appearance of the light.	
<b>Bulb Shape:</b> Bulb shape followed by its size (the maximum diameter of the bulb expressed in eighths of an inch).		<b>Approximate CBCP (Center Beam Candlepower):</b> For reflector type lamps. Center Beam Candlepower is the intensity (candelas) at the center or maximum intensity of the beam.	
<b>Base:</b> The type of base.		<b>Additional Information</b> Typical application and/or other important information.	
<b>Order Code:</b> It is important to use this five-digit code when ordering to ensure that you receive the exact product you require.			
<b>Lamp Description:</b> The lamp's identification code.			
<b>Volts:</b> Lamp data is based on operation at rated voltage.			

Bulb Shape	Base Type	Order Watts	Order Code	Case Description	Filament Type	MOL	LCL	Rated Life (hrs)	Lumens Initial	Initial Color Temp.	CBCP	Footnotes	Additional Information
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### HALOGEN PAR38 LAMPS

HIR™	PAR38	Med Skirt	50	12396	50PAR/HIR/SP9	120	12	CC-8	5.31	3000	800	2810	16000	⚡ 1a, 2a, 4f, 9a, 10c	Spotlight
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## 50 PAR / HIR / SP 9

Identifies the lamp's wattage.

Identifies the lamp shape and the bulb diameter in eighths of inches.

Identifies the lamp type.

Identifies beam angle, code may also include packaging information.

Identifies as Spotlight.

### HALOGEN BRAND NAME CROSS-REFERENCE

GE	OSRAM/SYLVANIA	PHILIPS
Retail HIR™	—	—
HIR/XL™ PAR	—	—
HIR™ PAR	Capsylite® PAR IR™	Masterline™ IRC
Silver Saver™	—	—
Edison™	—	—
Halogen Plus PAR	Capsylite® PAR	Masterline™ 2500
Standard Halogen PAR	—	Masterline™ 2000
Compact PAR	Capsylite® PAR	Masterline™ PAR
Diamond Precise®	—	—
Turn & Lock (TAL) ConstantColor®	—	—
ConstantColor® Precise™	Tru-Aim Titan®	Continuum Color®
Precise™ IR	Tru-Aim® IR™	Masterline™ ES IRC
Standard MR16	Tru-Aim®	Continuum®
Halogen A-Line	Capsylite® A-Line (Midbreak)	Halogena®

ATTENTION: This brand-name cross reference chart is provided only as a quick reference. Other lamp company brand listings may only represent a near equivalent, versus an identical match to GE Lighting brands. Individual lamp manufacturers' performance specifications should be consulted. Lamp performance may be affected by environmental conditions, and/or other auxiliary equipment.

### WHEN YOU DON'T KNOW THE LAMP DESCRIPTION

1. Identify bulb shape next to lamp information.
2. Measure bulb diameter using ruler in Appendix section page A-1 to determine width in eighths of an inch.
3. Identify base type using table on page 2-2.
4. Find your lamp in the table containing the bulb shape, size and base, which are all listed by wattage.



Bulb Shape	Base Type	Order Watts	Order Code	Description	Case Volts	Filament Qty.	Type	MOL	LCL	Rated Life (hrs)	Lumens Initial	Initial Color Temp.	CBCP	Footnotes	Additional Information
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## HALOGEN PAR38 LAMPS

### RETAIL HIR™ & SILV-IR

	PAR38 Med Skirt	45	16344	45PAR/HIR/R/SP10	120	12		5.31		4000	800	2750	14000	➤ 1a, 2a, 4f, 9a, 10c	Spotlight
			16345	45PAR/HIR/R/FL25	120	12		5.31		4000	800	2750	3400	➤ 1a, 2a, 4f, 9a, 10c	Floodlight
		50	46168	50PAR/HIR/S/SP10	120	12		5.31		4000	800	2750	14000	➤ 1a, 2a, 4f, 9a, 10c	Spotlight - Heavy Duty Filament
			46167	50PAR/HIR/S/FL25	120	12		5.31		4000	800	2750	3400	➤ 1a, 2a, 4f, 9a, 10c	Floodlight - Heavy Duty Filament
		55	16346	55PAR/HIR/R/SP10	120	12		5.31		4000	1050	2800	17000	➤ 1a, 2a, 4f, 9a, 10c	Spotlight
			16347	55PAR/HIR/R/FL25	120	12		5.31		4000	1050	2800	4000	➤ 1a, 2a, 4f, 9a, 10c	Floodlight
		60	46165	60PAR/HIR/S/SP10	120	12		5.31		4000	1050	2800	17000	➤ 1a, 2a, 4f, 9a, 10c	Spotlight - Heavy Duty Filament
			46166	60PAR/HIR/S/FL30	120	12		5.31		4000	1050	2800	2800	➤ 1a, 2a, 4f, 9a, 10c	Floodlight - Heavy Duty Filament
		90	16348	90PAR/HIR/R/SP10	120	12		5.31		4000	2030	2850	30000	➤ 1a, 2a, 4f, 9a, 10c	Spotlight
			16349	90PAR/HIR/R/FL25	120	12		5.31		4000	2030	2850	7000	➤ 1a, 2a, 4f, 9a, 10c	Floodlight

### HIR XL® (ULTRALONG LIFE) PAR38

	PAR38 Med Skirt	45	40793	45PAR/HIR/SP12XL	120	6	CC-8	5.31		6000	600	2680	7000	➤ 1a, 2a, 4f, 9a, 10c	Spotlight
			40790	45PAR/HIR/FL40XL	120	6	CC-8	5.31		6000	600	2680	1300	➤ 1a, 2a, 4f, 9a, 10c	Floodlight
		55	40794	55PAR/HIR/SP12XL	120	6	CC-8	5.31		6000	800	2680	9000	➤ 1a, 2a, 4f, 9a, 10c	Spotlight
			40792	55PAR/HIR/FL40XL	120	6	CC-8	5.31		6000	800	2680	2000	➤ 1a, 2a, 4f, 9a, 10c	Floodlight
		90	40795	90PAR/HIR/SP12XL	120	6	CC-8	5.31		6000	1470	2800	17000	➤ 1a, 2a, 4f, 9a, 10c	Spotlight
			40791	90PAR/HIR/FL40XL	120	6	CC-8	5.31		6000	1470	2800	2800	➤ 1a, 2a, 4f, 9a, 10c	Floodlight

### HIR™

	PAR38 Med Skirt	50	40937	50PAR/HIR/SP6	120	12	CC-8	5.31		3000	800	2810	20000	➤ 1a, 2a, 4f, 9a, 10c	Spotlight	
			12396	50PAR/HIR/SP9	120	12	CC-8	5.31		3000	800	2810	16000	➤ 1a, 2a, 4f, 9a, 10c	Spotlight	
			12397	50PAR/HIR/FL25	120	12	CC-8	5.31		3000	800	2810	3400	➤ 1a, 2a, 4f, 9a, 10c	Floodlight	
		50	22850	50PAR/HIR/FL25	130	12	CC-8	5.31		3000	800	2810	3400	➤ 1a, 2a, 4f, 9a, 10c	Floodlight	
			46		120					6000	600					
		60	11881	60PAR/HIR/SP10	120	6	CC-8	5.31		3000	1050	2850	17000	➤ 1a, 2a, 4f, 9a, 10c	Spotlight	
			18627	60PAR/HIR/SP10	120	12	CC-8	5.31		3000	1050	2850	17000	➤ 1a, 2a, 4f, 9a, 10c	Spotlight	
		60	18629	60PAR/HIR/SP10	130	12	CC-8	5.31		3000	1050	2850	17000	➤ 1a, 2a, 4f, 9a, 10c	Spotlight	
			54		120					6000	800					
		60	11878	60PAR/HIR/FL30	120	6	CC-8	5.31		3000	1050	2850	2800	➤ 1a, 2a, 4f, 9a, 10c	Floodlight	
			18626	60PAR/HIR/FL30	120	12	CC-8	5.31		3000	1050	2850	2800	➤ 1a, 2a, 4f, 9a, 10c	Floodlight	
		60	18628	60PAR/HIR/FL30	130	12	CC-8	5.31		3000	1050	2850	2800	➤ 1a, 2a, 4f, 9a, 10c	Floodlight	
			54		120					6000	800					
		60	10467	60PAR/HIR/FL40	120	12	CC-8	5.31		3000	1050	2850	1700	➤ 1a, 2a, 4f, 9a, 10c	Floodlight	
			20947	60PAR/HIR/WFL	120	12	CC-8	5.31		3000	1050	2850		➤ 1a, 2a, 4f, 9a, 10c	Wide Floodlight	
		60	20948	60PAR/HIR/WFL	130	12	CC-8	5.31		3000	1050	2850		➤ 1a, 2a, 4f, 9a, 10c	Wide Floodlight	
			54		120					6000	800					
		70	46367	70PAR/HIR/SP10	120	12	CC-8	5.31		3000	1260	2900	19000	➤ 1a, 2a, 4f, 9a, 10c	Spotlight	
			46369	70PAR/HIR/SP10	130	12	CC-8	5.31		3000	1260	2900	19000	➤ 1a, 2a, 4f, 9a, 10c	Spotlight	
			64		120					6000	950					
		70	46368	70PAR/HIR/FL25	120	12	CC-8	5.31		3000	1260	2900	4700	➤ 1a, 2a, 4f, 9a, 10c	Floodlight	
		46370	70PAR/HIR/FL25	130	12	CC-8	5.31		3000	1260	2900	4700	➤ 1a, 2a, 4f, 9a, 10c	Floodlight		
		64		120					6000	950						
	70	16239	70PAR/HIR/FL/CON	120	6	CC-8	5.31		3000	1260	2900	4700	➤ 1a, 2a, 4f, 9a, 10c	Floodlight		
	80	27216	80PAR/HIR/SP10	120	12	CC-8	5.31		3000	1500	2900	22000	➤ 1a, 2a, 4f, 9a, 10c	Spotlight		
		27217	80PAR/HIR/SP12	120	12	CC-8	5.31		3000	1500	2900	17500	➤ 1a, 2a, 4f, 9a, 10c	Spotlight		
		27218	80PAR/HIR/FL25	120	12	CC-8	5.31		3000	1500	2900	5000	➤ 1a, 2a, 4f, 9a, 10c	Floodlight		

# Halogen Lamps



Bulb Shape	Base Type	Order Watts	Order Code	Description	Case Volts	Filament Qty.	Type	MOL	LCL	Rated Life (hrs)	Lumens Initial	Initial Color Temp.	CBCP	Footnotes	Additional Information
<b>HALOGEN PAR38 LAMPS (CONTINUED)</b>															
<b>HIR™ (CONTINUED)</b>															
	PAR38 Med Skirt	100	<b>18635</b>	<b>100PAR/HIR/SP10</b>	120	12	CC-8	5.31		3000	2030	2900	30000	↔ 1a, 2a, 4f, 9a, 10c	Spotlight
			<b>11885</b>	<b>100PAR/HIR/SP10</b>	120	6	CC-8	5.31		3000	2030	2900	30000	↔ 1a, 2a, 4f, 9a, 10c	Spotlight
		100	<b>18636</b>	<b>100PAR/HIR/SP10</b>	130	12	CC-8	5.31		3000	2030	2900	30000	↔ 1a, 2a, 4f, 9a, 10c	Spotlight
		88			120					6000	1470				
		100	<b>11883</b>	<b>100PAR/HIR/FL25</b>	120	6	CC-8	5.31		3000	2030	2900	7000	↔ 1a, 2a, 4f, 9a, 10c	Floodlight
			<b>18631</b>	<b>100PAR/HIR/FL25</b>	120	12	CC-8	5.31		3000	2030	2900	7000	↔ 1a, 2a, 4f, 9a, 10c	Floodlight
		100	<b>18633</b>	<b>100PAR/HIR/FL25</b>	130	12	CC-8	5.31		3000	2030	2900	7000	↔ 1a, 2a, 4f, 9a, 10c	Floodlight
		88			120					6000	1470				
		100	<b>10473</b>	<b>100PAR/HIR/FL40</b>	120	12	CC-8	5.31		3000	2030	2900	3400	↔ 1a, 2a, 4f, 9a, 10c	Floodlight
	<b>SILVER SAVER™</b>														
	PAR38 Med Skirt	53	<b>16338</b>	<b>53PAR/H/SS/SP10</b>	120	12	CC-8	5.31		3000	800	2800	14000	↔ 1a, 2a, 4f, 9a, 10c	Spotlight
			<b>16339</b>	<b>53PAR/H/SS/FL25</b>	120	12	CC-8	5.31		3000	800	2800	2900	↔ 1a, 2a, 4f, 9a, 10c	Floodlight
		66	<b>16340</b>	<b>66PAR/H/SS/SP10</b>	120	12	CC-8	5.31		3000	1050	2850	18000	↔ 1a, 2a, 4f, 9a, 10c	Spotlight
			<b>16341</b>	<b>66PAR/H/SS/FL25</b>	120	12	CC-8	5.31		3000	1050	2850	4000	↔ 1a, 2a, 4f, 9a, 10c	Floodlight
		79	<b>16342</b>	<b>79PAR/H/SS/SP10</b>	120	12	CC-8	5.31		3000	1310	2850	20000	↔ 1a, 2a, 4f, 9a, 10c	Spotlight
			<b>16343</b>	<b>79PAR/H/SS/FL25</b>	120	12	CC-8	5.31		3000	1310	2850	4700	↔ 1a, 2a, 4f, 9a, 10c	Floodlight
<b>LONG LIFE PAR38</b>															
	PAR38 Med Skirt	45	<b>16354</b>	<b>45PAR/SP10 XL-EG</b>	120	6	CC-8	5.31		6000	520	2700	8000	↔ 1a, 2a, 4f, 9a, 10c	Spotlight
			<b>16355</b>	<b>45PAR/FL25 XL-EG</b>	120	6	CC-8	5.31		6000	520	2700	2000	↔ 1a, 2a, 4f, 9a, 10c	Floodlight
		90	<b>16357</b>	<b>90PAR/SP10 XL-EG</b>	120	6	CC-8	5.31		6000	1310	2800	20000	↔ 1a, 2a, 4f, 9a, 10c	Spotlight
			<b>16358</b>	<b>90PAR/FL25 XL-EG</b>	120	6	CC-8	5.31		6000	1310	2800	4700	↔ 1a, 2a, 4f, 9a, 10c	Floodlight
		45	<b>20757</b>	<b>45PAR/SP10XL-OD</b>	120	6	CC-8	5.31		6000	520	2700	8000	↔ 1a, 2a, 4f, 9a, 10c	Spotlight
			<b>20758</b>	<b>45PAR/FL25XL-OD</b>	120	6	CC-8	5.31		6000	520	2700	2000	↔ 1a, 2a, 4f, 9a, 10c	Floodlight
		90	<b>20759</b>	<b>90PAR/SP10XL-OD</b>	120	6	CC-8	5.31		6000	1310	2800	20000	↔ 1a, 2a, 4f, 9a, 10c	Spotlight
			<b>20763</b>	<b>90PAR/FL25XL-OD</b>	120	6	CC-8	5.31		6000	1310	2800	4700	↔ 1a, 2a, 4f, 9a, 10c	Floodlight
<b>HALOGEN PLUS</b>															
	PAR38 Med Skirt	45	<b>17470</b>	<b>45PAR/H/SP10</b>	120	6	CC-8	5.31		2500	540	2750	8000	↔ 1a, 2a, 4f, 9a, 10c	Spotlight
			<b>16229</b>	<b>45PAR/H/SP10</b>	130	12	CC-8	5.31		2500	540	2750	8000	↔ 1a, 2a, 4f, 9a, 10c	Spotlight
		40			120					5000	410				
		45	<b>17471</b>	<b>45PAR/H/FL25 6PK</b>	120	6	CC-8	5.31		2500	540	2750	2000	↔ 1a, 2a, 4f, 9a, 10c	Floodlight
		45	<b>16231</b>	<b>45PAR/H/FL25</b>	130	12	CC-8	5.31		2500	540	2750	2000	↔ 1a, 2a, 4f, 9a, 10c	Floodlight
		40			120					5000	410				
		60	<b>25266</b>	<b>60PAR/H/SP10</b>	120	12	CC-8	5.31		3000	800	2800	13000	↔ 1a, 2a, 4f, 9a, 10c	Spotlight
		60	<b>25270</b>	<b>60PAR/H/SP10</b>	130	12	CC-8	5.31		3000	800	2800	13000	↔ 1a, 2a, 4f, 9a, 10c	Spotlight
		54			120					6000	608				
		60	<b>25269</b>	<b>60PAR/H/FL25</b>	120	12	CC-8	5.31		3000	800	2800	3200	↔ 1a, 2a, 4f, 9a, 10c	Floodlight
		60	<b>25271</b>	<b>60PAR/H/FL25</b>	130	12	CC-8	5.31		3000	800	2800	3200	↔ 1a, 2a, 4f, 9a, 10c	Floodlight
		54			120					6000	608				
		75	<b>14751</b>	<b>75PAR/H/SP9-6PK</b>	120	6	CC-8	5.31		2500	1050	2850	18000	↔ 1a, 2a, 4f, 9a, 10c	Spotlight
			<b>14748</b>	<b>75PAR/H/FL25-6PK</b>	120	6	CC-8	5.31		2500	1050	2850	4000	↔ 1a, 2a, 4f, 9a, 10c	Floodlight
			<b>26564</b>	<b>75PAR/H/FL-TWIN</b>	120	3	CC-8	5.31		2500	1050	2850	4000	↔ 1a, 2a, 4f, 9a, 10c	Floodlight
		75	<b>21389</b>	<b>75PAR/H/FL25</b>	130	12	CC-8	5.31		2500	1050	2850	4000	↔ 1a, 2a, 4f, 9a, 10c	Floodlight
		66			120					5000	800				
		90	<b>17450</b>	<b>90PAR/H/SP10-6PK</b>	120	6	CC-8	5.31		2500	1310	2900	20000	↔ 1a, 2a, 4f, 9a, 10c	Spotlight
		90	<b>13311</b>	<b>90PAR/H/SP10</b>	130	12	CC-8	5.31		2500	1310	2900	20000	↔ 1a, 2a, 4f, 9a, 10c	Spotlight
		79			120					5000	1000				
	90	<b>17451</b>	<b>90PAR/H/FL25-6PK</b>	120	6	CC-8	5.31		2500	1310	2900	4700	↔ 1a, 2a, 4f, 9a, 10c	Floodlight	
	90	<b>13308</b>	<b>90PAR/H/FL25</b>	130	12	CC-8	5.31		2500	1310	2900	4700	↔ 1a, 2a, 4f, 9a, 10c	Floodlight	
	79			120					5000	1000					



Bulb Shape	Base Type	Order Watts	Description	Case Volts	Filament Qty.	MOL	LCL	Rated Life (hrs)	Lumens Initial	Initial Color Temp.	CBCP	Footnotes	Additional Information
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## HALOGEN PAR38 LAMPS (CONTINUED)

### HALOGEN PLUS (CONTINUED)

	PAR38 Med Skirt	90 22742	90PAR/H/FL-TWIN	120	3	CC-8	5.31	2500	1310	2900	4700	➤ 1a, 2a, 4f, 9a, 10c	Floodlight	
		25727	90PAR/H/WFL-120V	120	12	CC-8	5.31	2500	1310	2900		➤ 1a, 2a, 4f, 9a, 10c	Wide Floodlight	
		120 41632	120PAR/H/SP9	120	6	CC-8	5.31	2500	1900	2950	18000		1a, 2a, 4f, 9a, 10c	Narrow Spot
		120 41631	120PAR/H/FL30	120	6	CC-8	5.31	2500	1900	2950	4000		1a, 2a, 4f, 9a, 10c	Floodlight

### STANDARD HALOGEN

	PAR38 Med Skirt	50 17980	50PAR/H/SP10-6PK	120	6	CC-8	5.31	2000	600	2750	9500	➤ 1a, 2a, 4f, 9a, 10c	Spotlight
		17979	50PAR/H/FL25-6PK	120	6	CC-8	5.31	2000	600	2750	2200	➤ 1a, 2a, 4f, 9a, 10c	Floodlight
		25948	50PAR/H/FL-TWIN	120	3	CC-8	5.31	2000	600	2750	2200	➤ 1a, 2a, 4f, 9a, 10c	Floodlight
		50 17926	50PAR/H/FL	130	12	CC-8	5.31	2000	600	2750	2200	➤ 1a, 2a, 4f, 9a, 10c	Floodlight
	46			120				4000	450				
	100 17992	100PAR/H/SP10	120	6	CC-8	5.31	2000	1500	2900	22000	➤ 1a, 2a, 4f, 9a, 10c	Spotlight	
		17986	100PAR/H/FL25	120	6	CC-8	5.31	2000	1500	2900	5000	➤ 1a, 2a, 4f, 9a, 10c	Floodlight
		25679	100PAR/H/FL-TWIN	120	3	CC-8	5.31	2000	1500	2900	5000	➤ 1a, 2a, 4f, 9a, 10c	Floodlight
	100 17947	100PAR/H/FL25	130	12	CC-8	5.31	2000	1500	2900	5000	➤ 1a, 2a, 4f, 9a, 10c	Floodlight	
	88			120				4000	1150				

### COOL BEAM PAR38

	PAR38 Med Skirt	90 17691	90PAR/CB/H/FL25	120	12	CC-8	5.31	2500	1260	2870	4100	➤ 1a, 2a, 2c, 4f, 9a, 10c	Cool Beam Flood
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### QUARTZLINE®

	PAR38 Med Skirt	250 23719	Q250PAR/SP10	120	12	CC-8	5.31	4200	3600	2880	40000	1a, 2a, 2j, 4b, 4f, 4g, 4h, 9a, 10c	Spotlight
		23718	Q250PAR/FL30	120	12	CC-8	5.31	4200	3600	2880	9000	1a, 2a, 2j, 4b, 4f, 4g, 4h, 9a, 10c	Floodlight

## HALOGEN COMPACT PAR LAMPS

### COMPACT HIR™

	PAR30 Med	45 41545	45PAR30HIR/SP9XL	120	15	CC-8	3.62	6000	620	2680	9750	➤ 1a, 2a, 4f, 4h, 9a, 10c	Spotlight
		41547	45PAR30HIR/FL25XL	120	15	CC-8	3.62	6000	620	2680	2025	➤ 1a, 2a, 4f, 4h, 9a, 10c	Floodlight
		41550	45PAR30HIR/FL35XL	120	15	CC-8	3.62	6000	620	2680	1125	➤ 1a, 2a, 4f, 4h, 9a, 10c	Floodlight
		50 19902	50PAR30HIR/SP9	120	15	CC-8	3.62	4000	825	2810	15000	➤ 1a, 2a, 4f, 4h, 9a, 10c	Spotlight
		19901	50PAR30HIR/FL25	120	15	CC-8	3.62	4000	825	2810	3200	➤ 1a, 2a, 4f, 4h, 9a, 10c	Floodlight
		50 21533	50PAR30HIR/FL25	130	15	CC-8	3.62	3000	825	2810	3200	➤ 1a, 2a, 4f, 4h, 9a, 10c	Floodlight
	46			120				6000	620				
		50 19900	50PAR30HIR/FL35	120	15	CC-8	3.62	4000	825	2810	2700	➤ 1a, 2a, 4f, 4h, 9a, 10c	Floodlight
		50 19903	50PAR30HIR/FL35	130	15	CC-8	3.62	3000	825	2810	2700	➤ 1a, 2a, 4f, 4h, 9a, 10c	Floodlight
	46			120				6000	620				

### COMPACT PAR30 LONG NECK

	PAR30L Med	50 14940	50PAR30L/H/SP10	130	6	CC-8	4.75	3000	580	2800	7500	➤ 1a, 2a, 4f, 4h, 9a, 10c	Spotlight
	46			120				6000	460				
		50 11117	50PAR30L/H/SP10	130	15	CC-8	4.75	3000	580	2800	7500	➤ 1a, 2a, 4f, 4h, 9a, 10c	Spotlight
	46			120				6000	460				
		50 11116	50PAR30L/H/FL40	120	15	CC-8	4.75	3000	580	2800	1100	➤ 1a, 2a, 4f, 4h, 9a, 10c	Floodlight
		50 11123	50PAR30L/H/FL40	130	15	CC-8	4.75	3000	580	2800	1100	➤ 1a, 2a, 4f, 4h, 9a, 10c	Floodlight
	46			120				6000	460				
		50 14941	50PAR30L/H/WFL	120	6	CC-8	4.75	3000	630	2800		➤ 1a, 2a, 4f, 4h, 9a, 10c	Wide Floodlight
		75 11124	75PAR30L/H/SP10	120	15	CC-8	4.75	3000	940	2830	13000	➤ 1a, 2a, 4f, 4h, 9a, 10c	Spotlight
		75 11129	75PAR30L/H/SP10	130	15	CC-8	4.75	3000	940	2830	13000	➤ 1a, 2a, 4f, 4h, 9a, 10c	Spotlight
	66			120				6000	751				
		75 14943	75PAR30L/H/FL25	120	6	CC-8	4.75	3000	940	2830	3800	➤ 1a, 2a, 4f, 4h, 9a, 10c	Floodlight

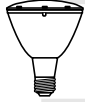
# Halogen Lamps



Bulb Shape	Base Type	Order Watts	Order Code	Description	Case Volts	Filament Qty.	Type	MOL	LCL	Rated Life (hrs)	Lumens Initial	Color Temp.	CBCP	Footnotes	Additional Information
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## HALOGEN COMPACT PAR LAMPS (CONTINUED)

### COMPACT PAR30 LONG NECK (CONTINUED)



PAR30L Med	75	11131	75PAR30L/H/FL25	130	15	CC-8	4.75			3000	940	2830	3800	↗ 1a, 2a, 4f, 4h, 9a, 10c	Floodlight
	66			120						6000	751				
	75	16393	75PAR30L/H/WFL	120	6	CC-8	4.75			3000	1050	2830			

### COMPACT PAR30

PAR30 Med	50	14023	50PAR30/H/SP10	120	6	CC-8	3.62			3000	630	2800	8200	↗ 1a, 2a, 4f, 4h, 9a, 10c	Spotlight
	50	17870	50PAR30/H/SP10	130	15	CC-8	3.62			3000	630	2800	8200		
	46			120						6000	500			↗ 1a, 2a, 4f, 4h, 9a, 10c	Floodlight
	50	17871	50PAR30/H/FL25	120	15	CC-8	3.62			3000	630	2800	2300		
	46			120						6000	500			↗ 1a, 2a, 4f, 4h, 9a, 10c	Floodlight
	50	17872	50PAR30/H/FL25	130	15	CC-8	3.62			3000	630	2800	2300		
	46			120						6000	500			↗ 1a, 2a, 4f, 4h, 9a, 10c	Floodlight
	50	14022	50PAR30/H/FL35	120	6	CC-8	3.62			3000	630	2800	1400		
	46			120						6000	500			↗ 1a, 2a, 4f, 4h, 9a, 10c	Floodlight
	50	17874	50PAR30/H/FL35	130	15	CC-8	3.62			3000	630	2800	1400		
	60	27212	60PAR30/H/NSP9	120	15	CC-8	3.62			3000	800	2800	11000	↗ 1a, 2a, 4f, 4h, 9a, 10c	Spotlight
		40167	60PAR30/H/FL25	120	15	CC-8	3.62			3000	800	2800	2900		
		27214	60PAR30/H/FL35	120	15	CC-8	3.62			3000	800	2800	1700	↗ 1a, 2a, 4f, 4h, 9a, 10c	Floodlight
	75	14802	75PAR30/H/SP10	120	6	CC-8	3.62			3000	1030	2830	13000		
	75	18056	75PAR30/H/SP10	130	15	CC-8	3.62			3000	1030	2830	13000	↗ 1a, 2a, 4f, 4h, 9a, 10c	Spotlight
	66			120						6000	790				
	75	18057	75PAR30/H/FL25	120	15	CC-8	3.62			3000	1030	2830	3800	↗ 1a, 2a, 4f, 4h, 9a, 10c	Floodlight
		14779	75PAR30/H/FL35	120	6	CC-8	3.62			3000	1030	2830	2400		
	75	18060	75PAR30/H/FL35	130	15	CC-8	3.62			3000	1030	2830	2400	↗ 1a, 2a, 4f, 4h, 9a, 10c	Floodlight
	66			120						6000	790				

### COMPACT PAR20

PAR20 Med	50	14927	50PAR20/H/SP10	120	6	CC-8	3.13			2500	570	2800	6000	↗ 1a, 2a, 4f, 4h, 9a, 10c	Spotlight
	50	17866	50PAR20/H/SP10	130	15	CC-8	3.13			2500	570	2800	6000		
	46			120						5000	498			↗ 1a, 2a, 4f, 4h, 9a, 10c	Floodlight
	50	14928	50PAR20H/FL25	120	6	CC-8	3.13			2500	570	2800	1500		
	46			120						5000	498			↗ 1a, 2a, 4f, 4h, 9a, 10c	Floodlight
	50	17868	50PAR20H/FL25	130	15	CC-8	3.13			2500	570	2800	1500		

### HALOGEN COMPACT PAR16

PAR16 Med	60	41628	60PAR16/H/SP10	120	6	CC-8	2.88			2000	650	2950	5400	1a, 2a, 4f, 4h, 9a, 10c	Spotlight
		41623	60PAR16/H/FL30	120	6	CC-8	2.88			2000	650	2950	1550		
	75	41630	75PAR16/H/SP10	120	6	CC-8	2.88			2000	900	2950	6200	1a, 2a, 4f, 4h, 9a, 10c	Spotlight
		41629	75PAR16/H/FL30	120	6	CC-8	2.88			2000	900	2950	1600		

### DIAMOND PRECISE® ELECTRONIC MR16

MR16 Med	21	48545	Q21EMR16/C/SP12	120	6	C-6	3.38			5000	260	2950	3900	↗ 1a, 1c, 2a, 2b, 4f, 4i, 4k, 9b, 10c	Narrow Spot		
		48546	Q21EMR16/C/FL25	120	6	C-6	3.38			5000	260	2950	890			↗ 1a, 1c, 2a, 2b, 4f, 4i, 4k, 9b, 10c	Narrow Flood
		48547	Q21EMR16/C/SP12CD	120	6	C-6	3.38			5000	260	2950	3900			↗ 1a, 1c, 2a, 2b, 4f, 4i, 4k, 9b, 10c	Narrow Spot, Carded
		48548	Q21EMR16/C/FL25CD	120	6	C-6	3.38			5000	260	2950	890			↗ 1a, 1c, 2a, 2b, 4f, 4i, 4k, 9b, 10c	Narrow Flood, Carded



# Halogen Lamps



Bulb Shape	Base Type	Order Watts	Description	Case Volts	Filament Qty.	Type	MOL	LCL	Rated Life (hrs)	Lumens Initial	Initial Color Temp.	CBCP	Footnotes	Additional Information	
<b>PAR36</b>															
	PAR36	Scrw Term	35 19873 35PAR36/H/SP5	12	12	C-6	2.75	4000	250	3050	25000		➤ 2a, 2b, 4f, 4g, 7a, 9b, 10c	Spotlight	
			19876 35PAR36/H/SP8	12	12	C-6	2.75	4000	250	3050	8000		➤ 2a, 2b, 4f, 4g, 7a, 9b, 10c	Spotlight	
			19877 35PAR36/H/FL30	12	12	C-6	2.75	4000	250	3050	900		➤ 2a, 2b, 4f, 4g, 7a, 9b, 10c	Floodlight	
			42072 35PAR36/H/VWFL	12	12	C-6	2.75	4000	250	3050			➤ 2a, 2b, 4f, 4g, 7a, 9b, 10c	Wide Flood	
	50			19878 50PAR36/H/SP5	12	12	C-6	2.75	4000	400	3050	39000		➤ 2a, 2b, 4f, 4g, 7a, 9b, 10c	Spotlight
				19879 50PAR36/H/SP8	12	12	C-6	2.75	4000	400	3050	10000		➤ 2a, 2b, 4f, 4g, 7a, 9b, 10c	Spotlight
				19880 50PAR36/H/FL30	12	12	C-6	2.75	4000	400	3050	1300		➤ 2a, 2b, 4f, 4g, 7a, 9b, 10c	Floodlight
				<b>A-LINE/DECORATIVE</b>											
	B13	Med	45 45650 45BM/HAL/PQ1/6	120	6	CC-8	4.63	2.38	3000	600	2750		1a, 1b, 2a, 2b, 2e, 4i, 4j, 9a, 10b, 10c	Frost, Thick Glass	
	TB19	Med	50 16747 50TB/H	130	60	CC-8	4.43	3.13	2000	710	2800		➤ 1a, 2a, 4f, 4h, 9a, 10c	Frost, Thick Glass	
			46	120					4000	540					
			50 20647 50A/HAL 6PK	120	6	CC-8	4.43	3.13	2000	710	2800		➤ 1a, 2a, 4f, 4h, 9a, 10c	Frost, Thick Glass	
			60 45266 60A/HAL PQ1/6	120	6	CC-8	4.43	2.63	3000	840	2800		1a, 2a, 4f, 4h, 9a, 10c	Frost, Thick Glass	
			48105 60A/HAL/CD	120	4	CC-8	4.43	2.62	3000	840	2800		1a, 2a, 4f, 4h, 9a, 10c	Frost, Thick Glass	
			46458 60A/HAL/CL PQ1/6	120	6	CC-8	4.63	2.62	3000	870	2800		1a, 2a, 4f, 4h, 9a, 10c	Clear, Thick Glass	
			48106 60A/HAL/CL/CD	120	4	CC-8	4.43	2.62	3000	870	2800		1a, 2a, 4f, 4h, 9a, 10c	Clear, Thick Glass	
			75 45259 75A/HAL PQ1/6	120	6	CC-8	4.43	2.63	3000	1170	2850		1a, 2a, 4f, 4h, 9a, 10c	Frost, Thick Glass	
	48107 75A/HAL/CD	120	4	CC-8	4.43	2.62	3000	1170	2850		1a, 2a, 4f, 4h, 9a, 10c	Frost, Thick Glass			
	90	Med		16745 90TB/H	130	60	CC-8	4.43	3.13	4000	1580	2930		➤ 1a, 2a, 4f, 4h, 9a, 10c	Frost, Thick Glass
				81	120					4000	1220				
90 20648 90A/HAL 6PK				120	6	CC-8	4.43	3.13	2000	1580	2930		➤ 1a, 2a, 4f, 4h, 9a, 10c	Frost, Thick Glass	
45648 90A/HAL PQ1/6				120	6	CC-8	4.43	2.63	3000	1470	2930		1a, 2a, 4f, 4h, 9a, 10c	Frost, Thick Glass	
BT14.5	Med		48108 90A/HAL/CD	120	4	CC-8	4.43	2.62	3000	1470	2930		1a, 2a, 4f, 4h, 9a, 10c	Frost, Thick Glass	
			60 10036 60BTT/CL/CD	120	6	C-8	4.75	3.00	3000	900	2800		1a, 1b, 2a, 2b, 2e, 4i, 4j, 9a, 10b, 10c	Clear, Brass Base, Carded	
			11856 60BTT/CL/CD/TW	120	6	C-8	4.75	3.00	3000	900	2800		1a, 1b, 2a, 2b, 2e, 4i, 4j, 9a, 10b, 10c	Clear, Brass Base twin pack, Carded	
			10038 60BTT/SW/CD	120	6	C-8	4.75	3.00	3000	840	2800		1a, 1b, 2a, 2b, 2e, 4i, 4j, 9a, 10b, 10c	White, Brass Base, Carded	
			10039 60BTT/SW/CD/TW	120	6	C-8	4.75	3.00	3000	840	2800		1a, 1b, 2a, 2b, 2e, 4i, 4j, 9a, 10b, 10c	White, Brass Base twin pack, Carded	
			75 10040 75BTT/SW/CD	120	6	C-8	4.75	3.00	3000	1070	2850		1a, 1b, 2a, 2b, 2e, 4i, 4j, 9a, 10b, 10c	White, Brass Base, Carded	
			100 10042 100BTT/SW/CD	120	6	C-8	4.75	3.00	3000	1600	2900		1a, 1b, 2a, 2b, 2e, 4i, 4j, 9a, 10b, 10c	White, Brass Base, Carded	
			150 10043 150BTT/SW/CD	120	6	C-8	4.75	3.00	3000	2430	2900		1a, 1b, 2a, 2b, 2e, 4i, 4j, 9a, 10b, 10c	White, Brass Base, Carded	
F14.5	Med	60 10044 60BTT/POST/CD	120	6	C-8	4.75	3.00	3000	900	2800		1a, 1b, 2a, 2b, 2e, 4i, 4j, 9a, 10b, 10c	Clear, Brass Base, Carded Postlamp		
B10	Med		25 16760 25BM/H/CD2	120	5	CC-8	3.4	2.22	2250	280	2700		1a, 1b, 2a, 2b, 2e, 4i, 4j, 9a, 10b, 10c	Carded Twin Pack	
			40 16761 40BM/H/CD2	120	5	CC-8	3.4	2.22	2250	485	2800		1a, 1b, 2a, 2b, 2e, 4i, 4j, 9a, 10b, 10c	Carded Twin Pack	
	Cand		25 16764 25CAC/H/CD2	120	5	CC-8	3.4	2.22	2250	280	2700		1a, 1b, 2a, 2b, 2e, 4i, 4j, 9a, 10b, 10c	Carded Twin Pack	
			40 16765 40CAC/H/CD2	120	5	CC-8	3.4	2.22	2250	485	2800		1a, 1b, 2a, 2b, 2e, 4i, 4j, 9a, 10b, 10c	Carded Twin Pack	
T10	Med		25 16766 25BFM/H/CD2	120	5	CC-8	3.4	2.22	2250	280	2700		1a, 1b, 2a, 2b, 2e, 4i, 4j, 9a, 10b, 10c	Carded Twin Pack	
			40 16767 40/BFM/H/CD2	120	5	CC-8	3.4	2.22	2250	485	2800		1a, 1b, 2a, 2b, 2e, 4i, 4j, 9a, 10b, 10c	Carded Twin Pack	

# Halogen Lamps



Bulb Shape	Base Type	Order Watts	Order Code	Description	Case Volts	Filament Qty.	Type	MOL	LCL	Rated Life (hrs)	Lumens Initial	Initial Color Temp.	CBCP	Footnotes	Additional Information
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## A-LINE/DECORATIVE (CONTINUED)

	G25	Med	40 16771	40G25/H/CL	120	6	CC-8	4.45	2.56	2250	510	2700		1a, 1b, 2a, 2b, 2e, 4i, 4j, 9a, 10b, 10c	
			60 16773	60G25/H/CL	120	6	CC-8	4.45	2.56	2250	1000	2900		1a, 1b, 2a, 2b, 2e, 4i, 4j, 9a, 10b, 10c	
			40 16774	40G25/H/CRYSTAL	120	6	CC-8	4.45	2.56	2250	500	2700		1a, 1b, 2a, 2b, 2e, 4i, 4j, 9a, 10b, 10c	
			60 16775	60G25/H/CRYSTAL	120	6	CC-8	4.45	2.56	2250	960	2900		1a, 1b, 2a, 2b, 2e, 4i, 4j, 9a, 10b, 10c	
	T10	Med	25 16776	25T10/H/CD	120	4	CC-8	5.04	2.56	2250	260	2700		1a, 1b, 2a, 2b, 2e, 4i, 4j, 9a, 10b, 10c	Carded
			40 16777	40T10/H/CD	120	4	CC-8	5.04	2.56	2250	510	2700		1a, 1b, 2a, 2b, 2e, 4i, 4j, 9a, 10b, 10c	Carded
			60 16778	60T10/H/CD	120	4	CC-8	5.04	2.56	2250	800	2900		1a, 1b, 2a, 2b, 2e, 4i, 4j, 9a, 10b, 10c	Carded

## MR TURN & LOCK CONSTANTCOLOR®

	MR16	TAL	35 30932	35MR16/Q/8/TL	12	10	C-6	2		3500	2900	8100		2a, 2b, 4f, 7a, 9a, 10b, 10c	Narrow Spot
			50 30901	50MR16/Q/10/TL	12	10	C-6	2		3500	3000	10800		2a, 2b, 4f, 7a, 9a, 10b, 10c	Narrow Spot
			30900	50MR16/Q/20/TL	12	10	C-6	2		3500	3000	3330		2a, 2b, 4f, 7a, 9a, 10b, 10c	Narrow Flood
			30899	50MR16/Q/40/TL	12	10	C-6	2		3500	3000	1395		2a, 2b, 4f, 7a, 9a, 10b, 10c	Floodlight

## CONSTANTCOLOR® PRECISE™ COVER GLASS MR16

	MR16	2-Pin GU5.3	20 20858	Q20MR16C/CG15	12	20	C-6	1.88		5000	2900	3150		2a, 2b, 4f, 9a, 10c	Narrow Spot, ANSI: ESX
			20857	Q20MR16C/CG40	12	20	C-6	1.88		5000	2900	475		2a, 2b, 4f, 9a, 10c	Flood, ANSI: BAB
			21456	FAM6Q20MR16NSCCG12	12	1	C-6	1.88		5000	2900	3350		2a, 2b, 4f, 9a, 10c	Narrow Spot, Carded, ANSI: ESX
			21455	FAM6Q20MR16FLCCG	12	1	C-6	1.88		5000	2900	490		2a, 2b, 4f, 9a, 10c	Flood, Carded ANSI: BAB
			35 20864	Q35MR16C/CG12	12	20	C-6	1.88		5000	3000	7500		2a, 2b, 4f, 9a, 10c	Narrow Spot, ANSI: FRB
			20860	Q35MR16C/CG20	12	20	C-6	1.88		5000	3000	3200		2a, 2b, 4f, 9a, 10c	Spot, ANSI: FRA
			20859	Q35MR16C/CG40	12	20	C-6	1.88		5000	3000	900		2a, 2b, 4f, 9a, 10c	Flood, ANSI: FMW
			23252	FAM6Q35MR16SPCCG12	12	1	C-6	1.88		5000	3000	3200		2a, 2b, 4f, 9a, 10c	Spot, Carded ANSI: FRB
			23253	FAM6Q35MR16FLCCG	12	1	C-6	1.88		5000	3000	900		2a, 2b, 4f, 9a, 10c	Flood, Clear Glass Carded, ANSI: FMW
			41485	Q35MR16/CCG12	24	20	C-6	1.88		4000	2950	4950		2a, 2b, 4f, 9a, 10c	Narrow Spot
			41487	Q35MR16/CCG40	24	20	C-6	1.88		4000	2950	920		2a, 2b, 4f, 9a, 10c	Flood
			50 20872	Q50MR16C/CG15	12	20	C-6	1.88		6000	3050	8400		2a, 2b, 4f, 9a, 10c	Narrow Spot ANSI: EXT
			20871	Q50MR16C/CG25	12	20	C-6	1.88		6000	3050	2900		2a, 2b, 4f, 9a, 10c	Narrow Flood ANSI: EXZ
			20867	Q50MR16C/CG40	12	20	C-6	1.88		6000	3050	1500		2a, 2b, 4f, 9a, 10c	Flood, ANSI: EXN
			20865	Q50MR16C/CG55	12	20	C-6	1.88		6000	3050	850		2a, 2b, 4f, 9a, 10c	Wide Flood, ANSI: FNV
			21458	FAM6Q50MR16NSCCG12	12	1	C-6	1.88		6000	3050	9500		2a, 2b, 4f, 9a, 10c	Narrow Spot, Carded, ANSI: EXT
21457	FAM6Q50MR16FLCCG12	12	1	C-6	1.88		6000	3050	1720		2a, 2b, 4f, 9a, 10c	Flood, 3050K, Carded, ANSI: EXN			



Bulb Shape	Base Type	Order Watts	Order Code	Description	Case Volts	Filament Qty.	Type	MOL	LCL	Rated Life (hrs)	Lumens Initial	Initial Color Temp.	CBCP	Footnotes	Additional Information		
<b>MR (CONTINUED)</b>																	
<b>CONSTANTCOLOR® PRECISE™ COVER GLASS MR16 (CONTINUED)</b>																	
MR16	2-Pin GU5.3	50	41488	Q50MR16/CCG15	24	20	C-6	1.88		4000		2950	8400	2a, 2b, 4f, 9a, 10c	Narrow Spot		
			41489	Q50MR16/CCG40	24	20	C-6	1.88		4000		2950	1570		2a, 2b, 4f, 9a, 10c	Flood	
			71	20876	Q71MR16C/CG15	12	20	C-6	1.88		4000		3050	10800		2a, 2b, 4f, 9a, 10c	Narrow Spot, ANSI: EYF
				20874	Q71MR16C/CG25	12	20	C-6	1.88		4000		3050	4550		2a, 2b, 4f, 9a, 10c	Narrow Flood, ANSI: EYJ
				20873	Q71MR16C/CG40	12	20	C-6	1.88		4000		3050	2000		2a, 2b, 4f, 9a, 10c	Flood, ANSI: EYC
<b>CONSTANTCOLOR® PRECISE™ MR16</b>																	
MR16	2-Pin GX5.3	20	20816	Q20MR16C/VNSP7	12	20	CC-6	1.88		3000		2900	7400	2a, 2j, 4a, 4c, 4e, 4f, 9a, 9d, 10b, 10c	Very Narrow Spot, ANSI: EZX		
				20815	Q20MR16C/NSP15	12	20	C-6	1.88		5000		2900	3750		2a, 2j, 4a, 4c, 4e, 4f, 9a, 9d, 10b, 10c	Narrow Spot, ANSI: ESX
				20814	Q20MR16C/FL40 10	12	20	C-6	1.88		5000		2900	525		2a, 2j, 4a, 4c, 4e, 4f, 9a, 9d, 10b, 10c	Flood, ANSI: BAB
			35	20826	Q35MR16C/SP20	12	20	C-6	1.88		5000		3000	3900		2a, 2j, 4a, 4c, 4e, 4f, 9a, 9d, 10b, 10c	Spot, ANSI: FRA
				20825	Q35MR16C/FL40	12	20	C-6	1.88		5000		3000	1000		2a, 2j, 4a, 4c, 4e, 4f, 9a, 9d, 10b, 10c	Flood, ANSI: FMW
			42	20830	Q42MR16C/VNSP9	12	20	CC-6	1.88		3500		3000	12300		2a, 2j, 4a, 4c, 4e, 4f, 9a, 9d, 10b, 10c	Very Narrow Spot, ANSI: EZY
			50	20839	Q50MR16C/NSP15	12	20	C-6	1.88		6000		3050	9100		2a, 2j, 4a, 4c, 4e, 4f, 9a, 9d, 10b, 10c	Narrow Spot, ANSI: EXT
				20835	Q50MR16C/NFL25	12	20	C-6	1.88		6000		3050	3200		2a, 2j, 4a, 4c, 4e, 4f, 9a, 9d, 10b, 10c	Narrow Flood, ANSI: EXZ
				20834	Q50MR16C/NFL30	12	20	C-6	1.88		6000		3050	2500		2a, 2j, 4a, 4c, 4e, 4f, 9a, 9d, 10b, 10c	Narrow Flood, ANSI: EXK
				20833	Q50MR16C/FL40	12	20	C-6	1.88		6000		3050	1700		2a, 2j, 4a, 4c, 4e, 4f, 9a, 9d, 10b, 10c	Flood, ANSI: EXN
				20832	Q50MR16C/WFL55	12	20	C-6	1.88		6000		3050	900		2a, 2j, 4a, 4c, 4e, 4f, 9a, 9d, 10b, 10c	Wide Flood, ANSI: FNV
			71	20843	Q71MR16C/NSP15	12	20	C-6	1.88		4000		3050	11500		2a, 2j, 4a, 4c, 4e, 4f, 9a, 9d, 10b, 10c	Narrow Spot, ANSI: EYF
				20841	Q71MR16C/NFL25	12	20	C-6	1.88		4000		3050	5500		2a, 2j, 4a, 4c, 4e, 4f, 9a, 9d, 10b, 10c	Narrow Flood, ANSI: EYJ
				20840	Q71MR16C/FL40	12	20	C-6	1.88		4000		3050	2200		2a, 2j, 4a, 4c, 4e, 4f, 9a, 9d, 10b, 10c	Flood, ANSI: EYC
			<b>PRECISE™ COVER GLASS IR MR16</b>														
MR16	2-Pin GU5.3	37	16715	Q37MR16/HIR/CG10	12	20	C-8	1.8		4000		3000	12500	2a, 2b, 4f, 9a, 10c	Narrow Spot		
				16716	Q37MR16/HIR/CG25	12	20	C-8	1.8		4000		3000	4400		2a, 2b, 4f, 9a, 10c	Narrow Flood
				16717	Q37MR16/HIR/CG40	12	20	C-8	1.8		4000		3000	2050		2a, 2b, 4f, 9a, 10c	Flood
			50	16718	Q50MR16/HIR/CG10	12	20	C-8	1.8		4000		3000	15000		2a, 2b, 4f, 9a, 10c	Narrow Spot
				16719	Q50MR16/HIR/CG25	12	20	C-8	1.8		4000		3000	5700		2a, 2b, 4f, 9a, 10c	Narrow Flood
				16720	Q50MR16/HIR/CG40	12	20	C-8	1.8		4000		3000	2600			Flood
<b>STANDARD MR16</b>																	
MR16	2-Pin GX5.3	20	25481	Q20MR16/SP	12	20	C-6	1.88		2000		2900	3500	2a, 2j, 4a, 4c, 4e, 4f, 9a, 9d, 10b, 10c	Spot, ANSI: ESX		
				25480	Q20MR16/FL	12	20	C-6	1.88		2000		2900	500		2a, 2j, 4a, 4c, 4e, 4f, 9a, 9d, 10b, 10c	Flood, ANSI: BAB
				40774	Q20MR16CG/FL/3PK	12	6	C-6	1.88		2000		2900	500		2a, 2j, 4a, 4c, 4e, 4f, 9a, 9d, 10b, 10c	Flood, ANSI: BAB

# Halogen Lamps



Bulb Shape	Base Type	Order Watts Code	Description	Case Volts Qty.	Filament Type	MOL	LCL	Rated Life (hrs)	Lumens Initial	Initial Color Temp.	CBCP	Footnotes	Additional Information
<b>MR (CONTINUED)</b>													
<b>STANDARD MR16 (CONTINUED)</b>													
	MR16	2-Pin GX5.3	50 <b>25483 Q50MR16/SP</b>	12	20 C-6	1.88		2000		2900	9500	2a, 2j, 4a, 4c, 4e, 4f, 9a, 9d, 10b, 10c	Spot, ANSI: EXT
			<b>25482 Q50MR16/FL</b>	12	20 C-6	1.88		2000		2900	1500	2a, 2j, 4a, 4c, 4e, 4f, 9a, 9d, 10b, 10c	Flood, ANSI: EXN
			<b>42098 Q50MR16FL/CG/3PK</b>	12	6 C-6	1.88		2000		2900	1500	2a, 2b, 4c, 4f, 9a, 10c	Flood, ANSI: EXN
	2-Pin	50 <b>43948 Q50MR16(EPZ)10PK</b>	14	20 CC-6	1.75			1000		3150	9000	2a, 2j, 8a, 4a, 4c, 4e, 4f, 4g, 9a, 9d, 10b, 10c	Display/Microfilm. Proj. dichroic refl. Burn pos: Any
<b>STANDARD MR11</b>													
	MR11	2-Pin GZ4	20 <b>30754 Q20MR11/SP15</b>	12	10 C-6	1.38		3500		2900	1760	2a, 2b, 4e, 4c, 4f, 9a, 9d, 10b, 10c, 11a	Spot, ANSI: FTC
			<b>30773 Q20MR11/NFL30</b>	12	10 C-6	1.38		3500		2900	600	2a, 2b, 4e, 4c, 4f, 9a, 9d, 10b, 10c, 11a	Narrow Flood, ANSI: FTD
			<b>25197 FAM6Q20MR11NF/CD</b>	12	1 C-6	1.38		3500		2900	600	2a, 2b, 4e, 4c, 4f, 9a, 9d, 10b, 10c, 11a	Narrow Flood, ANSI: FTD
	35	<b>30774 Q35MR11SP20</b>	12	10 C-6	1.38			3500		2900	3000	2a, 2b, 4e, 4c, 4f, 9a, 9d, 10b, 10c, 11a	Spot, ANSI: FTF
			<b>30890 Q35MR11NFL30</b>	12	10 C-6	1.38		3500		2900	1300	2a, 2b, 4e, 4c, 4f, 9a, 9d, 10b, 10c, 11a	Narrow Flood, ANSI: FTH
			<b>25349 FAM6Q35MR11SP/CD</b>	12	1 C-6	1.38		3500		2900	4100	2a, 2b, 4e, 4c, 4f, 9a, 9d, 10b, 10c, 11a	Spot, ANSI: FTF
			<b>41483 Q35MR11/CG12 24</b>	24	50 C-6	1.38		2000		2950	4100	2a, 2b, 4c, 4f, 9a, 10c	Spot
			<b>41484 Q35MR11/CG30 24</b>	24	50 C-6	1.38		2000		2950	1300	2a, 2b, 4c, 4f, 9a, 10c	Narrow Flood
<b>120V MR16</b>													
	MR16	GU10	20 <b>16753 Q20GU10/FL/CD</b>	120	5 CC-2V	2.13		2000		2600	230	1a, 2a, 2b, 2e, 4f, 4i, 9a, 10b, 10c	
			<b>35 16752 Q35GU10/FL/CD</b>	120	5 CC-2V	2.13		3000		2650	500	1a, 2a, 2b, 2e, 4f, 4i, 9a, 10b, 10c	
			<b>50 16751 Q50GU10/FL/CD</b>	120	5 CC-2V	2.13		3000		2750	1000	1a, 2a, 2b, 2e, 4f, 4i, 9a, 10b, 10c	
	JDR16	Med	<b>35 20641 35PAR16/CURIO</b>	120	3 CC-6V	2.05		3000		2700	500	1a, 2a, 2b, 2e, 4f, 4i, 9a, 10b, 10c	
<b>QUARTZ HALOGEN</b>													
	T3	2-Pin G4	5 <b>42959 Q5T3/CL</b>	12	100 C-6	1.25	0.75	2000	60			2a, 2j, 4c, 4e, 4f, 9a, 9d, 10b, 10c	Clear
			<b>10 34674 Q10T3/CL</b>	12	100 C-6	1.25	0.75	2000	140			2a, 2j, 4c, 4e, 4f, 9a, 9d, 10b, 10c	Clear
			<b>19371 Q10T3/CL/CD 5PK</b>	12	25 C-6	1.25	0.75	2000	140			2a, 2j, 4c, 4e, 4f, 9a, 9d, 10b, 10c	Clear, Carded
			<b>20 34715 Q20T2.5/12V/CL</b>	12	100 C-6	1.25	0.75	2000	350			2a, 2j, 4c, 4e, 4f, 9a, 9d, 10b, 10c	
			<b>19375 Q20T3/CL/CD 5PK</b>	12	25 C-6	1.25	0.75	2000	350			2a, 2j, 4c, 4e, 4f, 9a, 9d, 10b, 10c	Clear, Carded
			<b>18434 Q20T3/CL/24</b>	24	50 C-6	1.25	0.75	1000	350			2a, 2j, 4c, 4e, 4f, 9a, 9d, 10b, 10c	
	T4	2-Pin G8	25 <b>16809 Q25G8/CD2</b>	120	5 CC-2V	1.59	1.04	1500	240			1a, 2a, 2b, 2e, 4f, 4i, 9a, 10b, 10c	Twin Pack, Carded
	T3	2-Pin GY6.35	35 <b>34708 Q35T3/12V/CL</b>	12	100 C-6	1.75		2000	550			2a, 2j, 4c, 4e, 4f, 9a, 9d, 10b, 10c	
	T4	2-Pin G8	50 <b>21941 Q50G8/CD</b>	120	5 CC-2V	1.77	1.34	1300	700			1a, 2a, 2b, 2e, 4f, 4i, 9a, 10b, 10c	Carded



Bulb Shape	Base Type	Order Watts	Code	Description	Case Volts	Filament Qty.	Type	MOL	LCL	Rated Life (hrs)	Lumens Initial	Initial Color Temp.	CBCP	Footnotes	Additional Information
<b>QUARTZ HALOGEN (CONTINUED)</b>															
	T3	2-Pin GY6.35	50 34702	Q50T3/12V/CL	12	100	C-6	1.75		2000	850			2a, 2j, 4c, 4e, 4f, 9a, 9d, 10b, 10c	
	T4	2-Pin GY6.35	50 19376	Q50T4/CL/CD 5PK	12	25	C-6	1.75	1.16	2000	950			2a, 2j, 4c, 4e, 4f, 9a, 9d, 10b, 10c	Clear, Carded
			75 19377	Q75T4/CL/CD 5PK	12	25	C-6	1.75	1.16	2000	1600			2a, 2j, 4c, 4e, 4f, 9a, 9d, 10b, 10c	Clear, Carded
	T3	2-Pin GY6.35	100 34676	Q100T3/12V/CL	12	100	CC-6	1.75		2000	2350			2a, 2j, 4c, 4e, 4f, 9a, 9d, 10b, 10c	
			34663	Q100T3/24V/CL	24	100	CC-6	1.75		2000	2000			2a, 2j, 4c, 4e, 4f, 9a, 9d, 10b, 10c	
<b>QUARTZLINE®</b>															
<b>HIR™</b>															
	T2	R7s	225 12282	Q225T2CL/ULTRACD	120	60	C-8	4.69	2.5	3000	5950	2965		➤ 1a, 2a, 2b, 4c, 4d, 4e, 4f, 9a, 9d, 10b, 10c, 12b	IR, Clear, Horizontal
	T2.5	R7s	350 12283	Q350T3CL/ULTRACD	120	60	C-8	4.69	2.25	2000	10000	3075		➤ 1a, 2a, 2j, 2k, 4a, 4c, 4d, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12b	IR, Clear, Horizontal, Carded
			13894	Q350T3/CL/HIR	120	6	C-8	4.69	2.25	2000	10000	3075		➤ 1a, 2a, 2j, 2k, 4a, 4c, 4d, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12b	IR, Clear, Horizontal
			14311	Q350T3/CL/HIR	130	6	C-8	4.69	2.25	2000	9600	3000		➤ 1a, 2a, 2j, 2k, 4a, 4c, 4d, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12b	IR, Clear, Horizontal
			900 13642	Q900T3/CL/HIR	240	6	C-8	10.06	6.13	2000	32000	3160		➤ 1a, 2a, 2j, 2k, 4a, 4c, 4d, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12b	IR, Clear, Horizontal
			14335	Q900T3/CL/HIR	277	6	C-8	10.06	6.13	2000	31000	3160		➤ 1a, 2a, 2j, 2k, 4a, 4c, 4d, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12b	IR, Clear, Horizontal, Halogen
<b>HALOGEN</b>															
	T4	G9	25 16754	Q25G9/CD	120	5	CC-8	1.77	1.26	3000	240	2650		1a, 2a, 2b, 2e, 4f, 4i, 9a, 10b, 10c	Carded
			40 16755	Q40G9/CD	120	5	CC-8	1.77	1.26	2000	480	2750		1a, 2a, 2b, 2e, 4f, 4i, 9a, 10b, 10c	Carded
	T2.5	R7s	45 23850	Q45T2 1/2/CL	7	12	C-8	2.063		1000	710			2a, 2j, 4a, 4c, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c	
	T4	2-Pin PreFoc	45 41541	Q45T4/CL	12	C-6	2.5	1.53	500	835				2a, 2j, 4a, 4c, 4d, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12c	Clear, Airport, Base Down
	G9		60 16756	Q60G9/CD	120	5	CC-8	1.77	1.26	3000	780	2800		1a, 2a, 2b, 2e, 4f, 4i, 9a, 10b, 10c	Carded
			75 16759	Q75G9/CD	120	5	CC-8	1.77	1.26	3000	1100	2850		1a, 2a, 2b, 2e, 4f, 4i, 9a, 10b, 10c	Carded
	T3	Mini-Cand	75 39574	Q75CL	28	20	CC-6	2.5	1.19	2000	1350			2a, 2j, 4a, 4c, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12e	Clear
			12715	Q75CL/MC/CD	120	25	CC-8	2.5	1.25	1000	1050	2850		1a, 2a, 2j, 4a, 4c, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12e	Clear, Carded
	R7s		100 22489	Q100T3/CL/CD 5PK	120	60	C-8	3.13	1.25	1500	1650	2950		1a, 2a, 2j, 4a, 4c, 4e, 4f, 4g, 9a, 9d, 10b, 10c, 11a	Clear, Horizontal, Carded
	T4	Mini-Cand	100 16452	Q100MC	120	6	CC-8	2.81	1.38	2000	1550	2950		1a, 2a, 2j, 4a, 4c, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12e	Frosted
			15507	Q100CL/MC	120	6	CC-8	2.81	1.38	2000	1600	2950		1a, 2a, 2j, 4a, 4c, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12e	Clear
			44385	Q100CL/MC/2V	120	6	CC-2V	2.81	1.38	750	1800	2950		1a, 2a, 2j, 4a, 4c, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12e	Clear
			19383	Q100CL/MC/CD 5PK	120	25	CC-8	2.81	1.38	2000	1600	2950		1a, 2a, 2j, 4a, 4c, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12e	Clear, Carded

# Halogen Lamps



Bulb Shape	Base Type	Order Watts	Order Code	Description	Case Volts	Filament Qty.	MOL	LCL	Rated Life (hrs)	Lumens Initial	Initial Color Temp.	CBCP	Footnotes	Additional Information	
<b>QUARTZLINE® (CONTINUED)</b>															
<b>HALOGEN (CONTINUED)</b>															
	T4	D C Bay	100	<b>16451 Q100DC</b>	120	6	CC-8	2.44	1.38	2000	1550	2950		1a, 2a, 2j, 4a, 4c, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12e	Frosted
				<b>15508 Q100CL/DC</b>	120	6	CC-8	2.44	1.38	2000	1600	2950		1a, 2a, 2j, 4a, 4c, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12e	Clear
				<b>44657 Q100DC/2V</b>	120	6	CC-2V	2.44	1.38	750	1750	2950		1a, 2a, 2j, 4a, 4c, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12e	Frosted
				<b>44386 Q100CL/DC/2V</b>	120	6	CC-2V	2.44	1.38	750	1800	2950		1a, 2a, 2j, 4a, 4c, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12e	Clear
	T3	R7s	150	<b>27449 Q150T3/117/CL/CD</b>	120	60	C-8	4.69	2.25	1500	2400	2950		1a, 2a, 2j, 4a, 4c, 4d, 4e, 4f, 4g, 9a, 9d, 10b, 10c, 11a	Clear, Horizontal, Carded
				<b>19378 Q150T3/CL/CD 5PK</b>	120	60	C-8	3.13	1.25	1500	2400	2950		1a, 2a, 2j, 4a, 4c, 4e, 4f, 4g, 9a, 9d, 10b, 10c, 11a	Clear, Horizontal, Carded
	T4	R7s	150	<b>23710 Q150T4/CL</b>	25	12	CC-8	2.56		3000	2760	2850		2a, 2j, 4a, 4c, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c	Clear, Dental Spotlight
		Mini-Cand	150	<b>44654 Q150MC</b>	120	6	CC-8	3	1.38	2000	2700	2950		1a, 2a, 2j, 4a, 4c, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12e	Frosted
				<b>43694 Q150CL/MC</b>	120	6	CC-8	3	1.38	2000	2800	2950		1a, 2a, 2j, 4a, 4c, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12e	Clear
				<b>44383 Q150CL/MC/2V</b>	120	6	CC-2V	2.81	1.38	1000	2800	2950		1a, 2a, 2j, 4a, 4c, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12e	Clear
				<b>19386 Q150CL/MC/CD 5PK</b>	120	25	CC-8	3	1.38	2000	2800	2950		1a, 2a, 2j, 4a, 4c, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12e	Clear, Carded
		D C Bay	150	<b>44653 Q150DC</b>	120	6	CC-8	2.5	1.38	2000	2700	2950		1a, 2a, 2j, 4a, 4c, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12e	Frosted
				<b>43693 Q150CL/DC</b>	120	6	CC-8	2.5	1.38	2000	2800	2950		1a, 2a, 2j, 4a, 4c, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12e	Clear
				<b>44384 Q150CL/DC/2V</b>	120	6	CC-2V	2.44	1.38	1000	2800	2950		1a, 2a, 2j, 4a, 4c, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12e	Clear
	T3	R7s	200	<b>16580 Q200T3-6PK</b>	120	6	CC-8	3.13	1.25	1500	3350	2925		1a, 2a, 2j, 4a, 4c, 4e, 4f, 4g, 9a, 9d, 10b, 10c, 11a	Frosted
				<b>43713 Q200T3/CL-6PK</b>	120	144	CC-8	3.13	1.25	1500	3460	2925		1a, 2a, 2j, 4a, 4c, 4e, 4f, 4g, 9a, 9d, 10b, 10c, 11a	Clear
	T4	2-Pin PreFoc	200	<b>40702 Q200T4/CL</b>		12	CC-6	2.5	1.53	500	4500			2a, 2j, 4a, 4c, 4d, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12c	Clear, Airport, Base Down
		2-Pin GZ9.5	235	<b>11548 Q235T4/3</b>	33	12	CC-6	2.63	1.53	150	6000			2a, 2j, 4a, 4c, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c	Frosted, Instrument, Prefocus
	T2.5	R7s	250	<b>22865 Q250T3/CL-6PK</b>	120	144	C-8	3.13	1.25	1500	4000	2950		1a, 2a, 2j, 4a, 4c, 4e, 4f, 4g, 9a, 9d, 10b, 10c, 11a	Clear, Horizontal
				<b>22121 Q250T3/CL/CD 5PK</b>	120	60	C-8	3.25	1.13	1500	4000	2950		1a, 2a, 2j, 4a, 4c, 4e, 4f, 4g, 9a, 9d, 10b, 10c, 11a	Clear, Carded
	T4	Mini-Cand	250	<b>43695 Q250MC</b>	120	6	CC-8	3.16	1.63	2000	4850	2950		1a, 2a, 2j, 4a, 4c, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12e	Frosted
				<b>43696 Q250MC</b>	130	6	CC-8	3.16	1.63	2000	4850	2950		1a, 2a, 2j, 4a, 4c, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12e	Frosted
				<b>43699 Q250CL/MC</b>	120	6	CC-8	3.16	1.63	2000	5000	2950		1a, 2a, 2j, 4a, 4c, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12e	Clear
				<b>19387 Q250CL/MC/CD 5PK</b>	120	25	CC-8	3.16	1.63	2000	5000	2950		1a, 2a, 2j, 4a, 4c, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12e	Clear, Carded
				<b>43700 Q250CL/MC</b>	130	6	CC-8	3.16	1.63	2000	5000	2950		1a, 2a, 2j, 4a, 4c, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12e	Clear



Bulb Shape	Base Type	Order Watts	Order Code	Description	Case Volts	Filament Qty.	Filament Type	MOL	LCL	Rated Life (hrs)	Lumens Initial	Initial Color Temp.	CBCP	Footnotes	Additional Information
<b>QUARTZLINE® (CONTINUED)</b>															
<b>HALOGEN (CONTINUED)</b>															
	D C Bay	250	43701	Q250DC	120	6	CC-8	3	1.63	2000	4850	2950		1a, 2a, 2j, 4a, 4c, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12e	Frosted
			43702	Q250DC	130	6	CC-8	3	1.63	2000	4850	2950		1a, 2a, 2j, 4a, 4c, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12e	Frosted
			43697	Q250CL/DC	120	6	CC-8	3	1.63	2000	5000	2950		1a, 2a, 2j, 4a, 4c, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12e	Clear
			43698	Q250CL/DC	130	6	CC-8	3	1.63	2000	5000	2950		1a, 2a, 2j, 4a, 4c, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12e	Clear
	R7s	300	15535	Q300T3/HD/2CD	120	5	C-8	4.68	2.25	2000	5950	2950		1a, 2a, 2j, 4a, 4c, 4d, 4e, 4f, 4g, 9a, 9d, 10b, 10c, 11a	
			43704	Q300T3-6PK	120	144	C-8	4.69	2.25	2000	5900	2950		1a, 2a, 2j, 4a, 4c, 4d, 4e, 4f, 4g, 9a, 9d, 10b, 10c, 11a	Frosted, Horizontal
			43703	Q300T3/CL-6PK	120	144	C-8	4.69	2.25	2000	5950	2950		1a, 2a, 2j, 4a, 4c, 4d, 4e, 4f, 4g, 9a, 9d, 10b, 10c, 11a	Clear, Horizontal
			19379	Q300T3/CL/CD 5PK	120	60	C-8	4.69	2.25	2000	5950	2950		1a, 2a, 2j, 4a, 4c, 4d, 4e, 4f, 4g, 9a, 9d, 10b, 10c, 11a	Clear, Horizontal, Carded
			27447	Q300T3CL/CD2-5PK	120	60	C-8	4.69	2.25	2000	5950	2950		1a, 2a, 2j, 4a, 4c, 4d, 4e, 4f, 4g, 9a, 9d, 10b, 10c, 11a	Clear, Horizontal, Carded
	R7s	300	43705	Q300T4/CL	120	12	CC-8	3.13	2.25	2000	5650	2900		1a, 2a, 2j, 4a, 4c, 4e, 4f, 4g, 9a, 9d, 10b, 10c, 11a	Clear
			400	43708	Q400T4/CL	120	6	CC-8	3.13	1.19	2000	7750	2900		1a, 2a, 2j, 4a, 4c, 4e, 4f, 4g, 9a, 9d, 10b, 10c, 11a
	Mini-Cand	400	43706	Q400MC	120	6	CC-8	3.62	2	2000	7850	2950		1a, 2a, 2j, 4a, 4c, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12e	Frosted
			43707	Q400CL/MC	120	6	CC-8	3.62	2	2000	8250	2950		1a, 2a, 2j, 4a, 4c, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12e	Clear
	R7s	425	11178	Q425T3/CL	120	12	C-8	4.69	2.22	2000	8900	3000		1a, 2a, 2j, 2k, 4a, 4c, 4d, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12b	Clear, Horizontal
	R7s	500	15537	Q500T3/HD/2CD	120	5	C-8	4.68	2.25	2000	5950	2950		1a, 2a, 2j, 2k, 4a, 4c, 4d, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12b	
			23731	Q500T3/CL	120	12	C-8	4.69	2.25	2000	11100	3000		1a, 2a, 2j, 2k, 4a, 4c, 4d, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12b	Clear, Horizontal
			23733	Q500T3/CL	130	12	C-8	4.69	2.25	2000	10550	3000		1a, 2a, 2j, 2k, 4a, 4c, 4d, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12b	Clear, Horizontal
			23744	Q500T3/CL/6-12PK	120	144	C-8	4.69	2.25	1500	10950	3000		1a, 2a, 2j, 2k, 4a, 4c, 4d, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12b	Clear, 6 Filament Support, Rough Service, Horizontal
			23717	Q500T3-12PK	130	144	C-8	4.69	2.25	2000	10300	3000		1a, 2a, 2j, 2k, 4a, 4c, 4d, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12b	Frosted, Horizontal
			19382	Q500T3/CL/CD 5PK	120	60	C-8	4.69	2.25	2000	11100	3000		1a, 2a, 2j, 2k, 4a, 4c, 4d, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12b	Clear, Horizontal, Carded
			27448	Q500T3CL/CD2-5PK	120	60	C-8	4.69	2.25	2000	11100	3000		1a, 2a, 2j, 2k, 4a, 4c, 4d, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12b	Clear, Horizontal, Carded


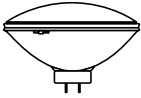


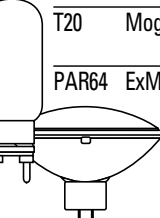


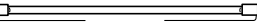
# Halogen Lamps






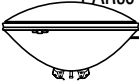
Bulb Shape	Base Type	Order Watts	Order Code	Description	Case Volts	Filament Qty.	Type	MOL	LCL	Rated Life (hrs)	Lumens Initial	Initial Color Temp.	CBCP	Footnotes	Additional Information
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## QUARTZLINE® (CONTINUED)

### HALOGEN (CONTINUED)

	T4	D C Bay	500	<b>43709 Q500DC</b>	120	6	CC-8	3.44	2.13	2000	10100	2950		1a, 2a, 2j, 4a, 4c, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12e	Frosted
				<b>43710 Q500CL/DC</b>	120	6	CC-8	3.44	2.13	2000	10450	2950		1a, 2a, 2j, 4a, 4c, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12e	Clear
	T8	Spec 1" Ribbon	500	<b>39071 Q500T8/1CL</b>		20	CC-8	4.25	2.5	500	13400	3200		1a, 2a, 2j, 2k, 4a, 4c, 4d, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12b	Clear, Airport, Special bulb
	PAR56	Mog End Pr	500	<b>43494 Q500PAR56NSP</b>	120	6	CC-6	5		4000	8000	2950	96000	1a, 2a, 2j, 4b, 4c, 4f, 4g, 7a, 9b, 10c	Narrow Spot
				<b>43495 Q500PAR56MFL</b>	120	6	CC-6	5		4000	8000	2950	43000	1a, 2a, 2j, 4b, 4c, 4f, 4g, 7a, 9b, 10c	Medium Flood
				<b>43496 Q500PAR56WFL</b>	120	6	CC-6	5		4000	8000	2950	19000	1a, 2a, 2j, 4b, 4c, 4f, 4g, 7a, 9b, 10c	Wide Flood
	T3	R7s	1000	<b>43711 Q1000T3/CL-6PK</b>	230	144	C-8	10.06	6.13	2000	21500	3050		1a, 2a, 2j, 2k, 4a, 4c, 4d, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12b	Clear, Horizontal
				<b>43712 Q1000T3/CL-6PK</b>	240	144	C-8	10.06	6.44	2000	21500	3050		1a, 2a, 2j, 2k, 4a, 4c, 4d, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12b	Clear, Horizontal
	T6	R7s	1000	<b>23800 Q1000T6/CL</b>	120	6	CC-8	5.63	1	2000	23400	3200		1a, 2a, 2j, 4a, 4c, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c	Clear
	T20	Mog BiPost	1000	<b>41734 Q1000T20BP</b>	120	6	CC-8	9.5	4	3000	22400	3050		12c	Clear, Lighthouse, Base Down
	PAR64	ExMogEndPr	1000	<b>43497 Q1000PAR64NSP</b>	120	6	CC-6	6		4000	19400	3000	200000	1a, 2a, 2j, 4b, 4c, 4f, 4g, 7a, 9b, 10c	Narrow Spot
				<b>43498 Q1000PAR64MFL</b>	120	6	CC-6	6		4000	19400	3000	80000	1a, 2a, 2j, 4b, 4c, 4f, 4g, 7a, 9b, 10c	Medium Flood
				<b>43499 Q1000PAR64/WFL</b>	120	6	CC-6	6		4000	19400	3000	33000	1a, 2a, 2j, 4b, 4c, 4f, 4g, 7a, 9b, 10c	Wide Flood
	T3	R7s	1500	<b>23828 Q1500T3/CL-12PK</b>	208	144	C-8	10.06	6.25	2000	35800	3050		1a, 2a, 2j, 2k, 4a, 4c, 4d, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12b	Clear, Horizontal
				<b>23826 Q1500T3/CL-12PK</b>	220	144	C-8	10.06	6.81	2000	35800	3050		1a, 2a, 2j, 2k, 4a, 4c, 4d, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12b	Clear, Horizontal
				<b>23830 Q1500T3/CL</b>	240	12	C-8	10.06	6.31	2000	35800	3050		1a, 2a, 2j, 2k, 4a, 4c, 4d, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12b	Clear, Horizontal
				<b>23832 Q1500T3/CL</b>	277	12	C-8	10.06	6.25	2000	34400	3050		1a, 2a, 2j, 2k, 4a, 4c, 4d, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12b	Clear, Horizontal
	Wire Lead		6000	<b>23843 Q6M/T3/CL/HT</b>	480	12	C-8	11.94	9.75	100		3250		1a, 2a, 2b, 4c, 4d, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12b, 12e	Clear, Infrared, High Temp, Constr.
	Slv		6600	<b>13511 Q6000T3/CL</b>	480	12	C-8	11.94	9.75	150				1a, 2a, 2b, 4c, 4d, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12b, 12e	Clear, Infrared, Horizontal

## AIRPORT

	T2.5	Special	45	<b>23847 Q6.6A/T2 1/2/1CL</b>	12	C-8		1.75		1000	710			2a, 2j, 4a, 4c, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c	Clear, Airport
	T4	Spec 1" Ribbon	200	<b>23857 Q6.6A/T4/5CL</b>	12	CC-8		3		500	5000			2a, 2j, 4a, 4c, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c	Clear, Airport
		D C Bay	200	<b>23860 Q6.6AT4/DCR</b>	12	CC-6		2.5	1.06	500	5150			2a, 2j, 4a, 4c, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12e	Clear, Airport, Ringed
	PAR56	Scrw Term	200	<b>33279 Q6.6A PAR56/3</b>	12	CC-6		4.5		1000			200000	2a, 2j, 4b, 4c, 4d, 4f, 4g, 7a, 9b, 10c	PAR, Airport, BDTH





Bulb Shape	Base Type	Order Watts	Order Code	Description	Case Volts	Filament Qty.	Type	MOL	LCL	Rated Life (hrs)	Lumens Initial	Initial Color Temp.	CBCP	Footnotes	Additional Information
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## AIRPORT (CONTINUED)


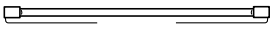
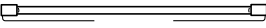
	PAR56 Mog End Pr	200	38271	Q6.6A/PAR56/2	12	CC-6	5			1000				16000	2a, 2j, 4b, 4c, 4d, 4f, 4g, 7a, 9b, 10c	PAR, Airport, BDTH
				18309	Q6.6A/PAR56/4	12	CC-6	5			600				2a, 2j, 4b, 4c, 4d, 4f, 4g, 7a, 9b, 10c	PAR, Airport, Prismatic Lens, BDTH
	PAR64 Mog End Pr	200	13224	Q6.6A/PAR 64/2P	6	CC-6	4.5			2000					2a, 2j, 4b, 4c, 4d, 4f, 4g, 7a, 9b, 10c	PAR, Airport, BDTH
	PAR56 Scrw Term	300	32861	Q20A/PAR56/2	12	CC-6	4.5			500			200000		2a, 2j, 4b, 4c, 4f, 4g, 7a, 9b, 10c	PAR, Airport, Burn Position: Any
	Mog End Pr	300	15482	Q20A/PAR56/C	12	CC-6	5			500					2a, 2j, 4c, 4f, 4g, 7a, 9b, 10c	PAR, Airport, Coated, Burn Position: Any
	PAR64 Mog End Pr	300	13223	Q6.6A/PAR 64/3P	6	CC-6	4.5			2000					2a, 2j, 4b, 4c, 4d, 4f, 4g, 7a, 9b, 10c	PAR, Airport, BDTH
	PAR56 Scrw Term	499	23863	Q20A/PAR56/3	12	CC-6	4.5			500			330000		2a, 2j, 4b, 4c, 4d, 4f, 4g, 7a, 9b, 10c	PAR, Airport, BDTH
	Mog End Pr	500	15485	Q20A/PAR56/1/C	12	CC-6	5			500					2a, 2j, 4c, 4f, 4g, 7a, 9b, 10c	PAR, Airport, Coated, Burn Position: Any

## TUBULAR QUARTZ HEAT

	T3 Slv	300	39019	QH300T3/CL	120	12	C-8	8.47	4.19	5000				2400	1a, 2a, 2b, 3a, 4c, 4d, 4e, 4f, 4g, 9a, 9d, 10b, 10c, 12b, 12e												
				375	21337	QH375T3/CL	120	12	C-8	8.81	5.06	5000			2400	1a, 2a, 2b, 3a, 4c, 4d, 4e, 4f, 4g, 9a, 9d, 10b, 10c, 12b, 12e											
	R7s	375	38893	QH375T3/CL/7	120	12	C-8	8.69	5.06	5000				2400	1a, 2a, 2b, 3a, 4c, 4d, 4e, 4f, 4g, 9a, 9d, 10b, 10c, 12b, 12e												
				500	21787	QH500T3/CL/7	120	12	C-8	8.69	4.81	5000			2400	1a, 2a, 2b, 3a, 4c, 4d, 4e, 4f, 4g, 9a, 9d, 10b, 10c, 12b, 12e											
	Slv	500	21788	QH500T3/CL	120	12	C-8	8.81	4.81	5000				2400	1a, 2a, 2b, 3a, 4c, 4d, 4e, 4f, 4g, 9a, 9d, 10b, 10c, 12b, 12e	1a, 2a, 2b, 3a, 4c, 4d, 4e, 4f, 4g, 9a, 9d, 10b, 10c, 12b, 12e, Infrared, Clear											
				1000	22355	QH1000T3/CL	120	12	C-8	13.81	10	5000			2400	1a, 2a, 2b, 3a, 4c, 4d, 4e, 4f, 4g, 9a, 9d, 10b, 10c, 12b, 12e	1a, 2a, 2b, 3a, 4c, 4d, 4e, 4f, 4g, 9a, 9d, 10b, 10c, 12b, 12e, Infrared										
															22357	QH1000T3/CL	120	12	C-8	13.81	10	5000	2400	1a, 2a, 2b, 3a, 4c, 4d, 4e, 4f, 4g, 9a, 9d, 10b, 10c, 12b, 12e	1a, 2a, 2b, 3a, 4c, 4d, 4e, 4f, 4g, 9a, 9d, 10b, 10c, 12b, 12e, Infrared		
																22358	QH1000T3/CL/1	120	12	C-8	11.88	10	5000	2400	1a, 2a, 2b, 3a, 4c, 4d, 4e, 4f, 4g, 9a, 9d, 10b, 10c, 12b, 12e	1a, 2a, 2b, 3a, 4c, 4d, 4e, 4f, 4g, 9a, 9d, 10b, 10c, 12b, 12e, Infrared, Clear, Horizontal	
																22365	QH1000T3/2CL/HT	120	12	C-8	13.81	10	5000	2400	1a, 2a, 2b, 3a, 4c, 4d, 4e, 4f, 4g, 9a, 9d, 10b, 10c, 12b, 12e	1a, 2a, 2b, 3a, 4c, 4d, 4e, 4f, 4g, 9a, 9d, 10b, 10c, 12b, 12e, Infrared, Clear, High Temp, Constr., Horizontal	
																1200	22531	QH1200T3/CL	144	12	C-8	8.81	6.13	5000	2450	1a, 2a, 2b, 3a, 4c, 4d, 4e, 4f, 4g, 9a, 9d, 10b, 10c, 12b, 12e	1a, 2a, 2b, 3a, 4c, 4d, 4e, 4f, 4g, 9a, 9d, 10b, 10c, 12b, 12e, Infrared, Clear, Horizontal
																	22532	QH1200T3/CL/HT	144	12	C-8	8.81	6.13	5000	2450	1a, 2a, 2b, 3a, 4c, 4d, 4e, 4f, 4g, 9a, 9d, 10b, 10c, 12b, 12e	1a, 2a, 2b, 3a, 4c, 4d, 4e, 4f, 4g, 9a, 9d, 10b, 10c, 12b, 12e, Infrared, Clear, High Temp, Constr., Horizontal
1600																22686	QH1600T3/CL	120	12	C-8	19.81	15.88	5000	2350	1a, 2a, 2b, 3a, 4c, 4d, 4e, 4f, 4g, 9a, 9d, 10b, 10c, 12b, 12e	1a, 2a, 2b, 3a, 4c, 4d, 4e, 4f, 4g, 9a, 9d, 10b, 10c, 12b, 12e, Infrared, Horizontal	
																	22688	QH1600T3/CL	120	12	C-8	19.81	15.88	5000	2400	1a, 2a, 2b, 3a, 4c, 4d, 4e, 4f, 4g, 9a, 9d, 10b, 10c, 12b, 12e	1a, 2a, 2b, 3a, 4c, 4d, 4e, 4f, 4g, 9a, 9d, 10b, 10c, 12b, 12e, Infrared, Clear, Horizontal
																	22695	QH1600T3/CL	277	12	C-8	19.81	15.88	5000	2400	1a, 2a, 2b, 3a, 4c, 4d, 4e, 4f, 4g, 9a, 9d, 10b, 10c, 12b, 12e	1a, 2a, 2b, 3a, 4c, 4d, 4e, 4f, 4g, 9a, 9d, 10b, 10c, 12b, 12e, Infrared, Horizontal

# Halogen Lamps



Bulb Shape	Base Type	Order Watts	Order Code	Description	Case Volts	Filament Qty.	MOL	LCL	Rated Life (hrs)	Lumens Initial	Initial Color Temp.	CBCP	Footnotes	Additional Information	
<b>TUBULAR QUARTZ HEAT (CONTINUED)</b>															
↔ T3	R7s	1600	22691	QH1600T3/CL/7	12	C-8	19.63	15.88	5000		2400		1a, 2a, 2b, 3a, 4c, 4d, 4e, Infrared, Horizontal 4f, 4g, 9a, 9d, 10b, 10c, 12b, 12e		
			22699	QH1600T3/CL/7	12	C-8	19.63	15.88	5000		2350		1a, 2a, 2b, 3a, 4c, 4d, 4e, Infrared, Horizontal 4f, 4g, 9a, 9d, 10b, 10c, 12b, 12e		
	CER	2000	12716	QH2MT3/CL/HT/R	12	C-8		11.06	5000		2450		1a, 2a, 2b, 3a, 4c, 4d, 4e, Infrared, Clear, High 4f, 4g, 9a, 9d, 10b, 10c, Temp, Horizontal, 12b, 12e Reflector 170°		
		2000	15551	QH2MT3/1CL/HT/VB	12	C-8	11.94	9.69	500		2450		1a, 2a, 2b, 3a, 4c, 4d, Infrared, Clear, High 4e, 4f, 4g, 9a, 9d, 10b, Temp, Constr., 10c, 12e Universal		
			18668	QH2MT3/CL/VB	12	C-8	13.81	11.06	5000		2450		1a, 2a, 2b, 3a, 4c, 4d, 4e, Infrared, Clear, 4f, 4g, 9a, 9d, 10b, 10c, Universal 12b, 12e		
			22789	QH2M/T3/1CL/HT	12	C-8	11.94	9.69	5000		2450		1a, 2a, 2b, 3a, 4c, 4d, 4e, Infrared, Clear, High 4f, 4g, 9a, 9d, 10b, 10c, Temp, Constr. 12b, 12e		
	Slv		22790	QH2M/T3/CL/HT	12	C-8	13.81	10	5000		2450		1a, 2a, 2b, 3a, 4c, 4d, 4e, Infrared, Clear, High 4f, 4g, 9a, 9d, 10b, 10c, Temp, Constr., 12b, 12e Horizontal		
		2500	22837	QH2500T3/CL/7	460	12	C-8	28.63	24.88	5000		2400		1a, 2a, 2b, 3a, 4c, 4d, 4e, Infrared, Clear, 4f, 4g, 9a, 9d, 10b, 10c, Horizontal 12b, 12e	
		2500	22838	QH2500T3/CL	12	C-8	28.81	24.88	5000		2400		1a, 2a, 2b, 3a, 4c, 4d, 4e, Infrared, Clear, 4f, 4g, 9a, 9d, 10b, 10c, Horizontal 12b, 12e		
		3650	10872	QH3650T3/CL/5	480	6	C-8	41.63	38	5000		2500		1a, 2a, 2b, 3a, 4f, 5a, 5b, Infrared, Horizontal 9a, 9d, 10c, 12b, 12e	
	Slv	3800	22875	QH3800T3/CL	6	C-8	41.81	38	5000		2500		1a, 2a, 2b, 3a, 4f, 5a, 5b, Infrared, Horizontal 9a, 9d, 10c, 12b, 12e		
			22878	QH3800T3/CL/VB	6	C-8	41.81	38	5000		2500		1a, 2a, 2b, 3a, 4f, 5a, 5b, Infrared, Clear, 9a, 9d, 10c, 12e Universal		
		5000	22900	QH5M/T3/1CL/HT	12	C-8	28.81	25.25	5000		2500		1a, 2a, 2b, 3a, 4c, 4d, 4e, Infrared, Clear, High 4f, 4g, 9a, 9d, 10b, 10c, Temp, Constr., 12b, 12e Horizontal		



## GENERAL INFORMATION

### HALOGEN LAMP OPERATING PRECAUTIONS

The lamps listed in this catalog are filled to high internal gas pressures to maximize lamp efficacy (lumens per watt). Some general cautions are given below.

### HIGH OPERATING TEMPERATURES

Since operating temperatures are critical to the effective self-cleaning properties of halogen lamps, filament tube wall temperatures should not go below 482°F (250°C). Hot spots on the bulb wall itself can go as high as 1230°F (700°C) in normal operation.

Substantial heat is generated in all halogen lamps, so equipment design should make allowance for the dissipation of excessive heat. Certain lamps and extremely confined fixtures may require additional ventilation or heat sinking to ensure proper operation of the halogen cycle and to prevent damage to the fixture. It is a good practice to test the lamp in the operating environment early in the design cycle to ensure adequate performance. Precautions must be taken in the selection of materials for lampholders, reflectors and lamp housings because the 1230°F (700°C) bulb wall temperature is greater than the kindling temperature of many materials. Lamp base temperatures should not exceed 662°F (350°C) because, above that point, lead wires may deteriorate and the basing cement loosen, causing premature lamp failure.

### DISTRIBUTION OF SPECTRAL RADIATION

Halogen lamps offer large amounts of visible and infrared energy from a small light source, with about 90% of the energy in the infrared. Some halogen lamps can be used for special applications where small amounts of ultraviolet energy are required. The slight ultraviolet radiation that comes from unprotected sources could cause skin and eye irritation following extended direct exposure. Passing the light through ordinary glass or plastic provides adequate protection. The lenses of the PAR, TAL or Cover Glass Precise™ lamps provide this protection.

## OPERATING NOTES

- Turn power off and let lamp cool before removal to avoid potential burn and electrical shock during lamp replacement
- Do not use lamp if outer glass is scratched or broken because it may break during installation or later during operation
- Do not use lamp in close proximity to combustible materials or those adversely affected by drying or fading action because of heat radiation in the lamp beam
- Dispose of removed lamp with care such as placing in used lamp carton or other closed container

### COMPACT PAR LAMPS (PAR20/30)

- Use outdoors in enclosed fixtures or where protected from exposure to water

### QUARTZLINE® PAR (250W)

- Avoid use where subjected to exposure to moisture which may cause lamp to break or shatter
- Do not operate lamp over 110% rated voltage. Overvoltage operation increases pressure and tendency to break.
- Use this lamp only in fixtures designed for Q250PAR38 lamps

### QUARTZ HEAT LAMPS

GE standard quartz heat products are primarily pressurized halogen lamps. Many standard tungsten coil filaments have been converted to a deflection coil winding design that eliminates the need for filament supports through an integral coil/support construction. These changes will improve lamp life as well as keep the bulb wall cleaner during operation and throughout the life of the lamp.

In general, halogen lamps are more efficient than ordinary incandescent lamps. HIR™ lamps are the most efficient halogen lamps we offer. For each application, check life, lumens, wattage, beam spread and lamp dimensions to determine proper bulb selection.

GE has added a reflectorized heat lamp with a patented design that directs the infrared to a surface rather than in 360° angle.

### HALOGEN CAUTION NOTICE – GENERAL

Halogen lamps are constructed of a glass bulb with a pressurized internal filament tube that operates at high temperatures and could unexpectedly shatter. Should the outer bulb break, particles of extremely hot glass could be discharged into the fixture enclosure and/or surrounding environment, thereby creating a risk of personal injury or fire.

### HALOGEN A-LINE (TB/H)

Caution: Cracked or broken bulbs that still light should be replaced immediately. The inner tube of the GE Halogen lamp is pressurized, operates at high temperature and could unexpectedly shatter with the possibility of property damage or personal injury. Avoid use in unstable table lamps, dispose of with care. To avoid burns, electricity should be switched off and the lamp allowed to cool for several minutes before removing from socket. Use outdoors only in enclosed fixtures or where protected from exposure to water.

### OPERATING NOTES – LOW VOLTAGE LAMPS

Low voltage tungsten-halogen lamps are sensitive to voltage variations. Even a small change in voltage can have a considerable impact on lamp life. Designers should match fixture transformer ratings to actual line voltages to ensure that the lamps operate at as close to 12 volts as possible.

Rapid cycling can also shorten lamp life, and designers should take advice from their GE Lighting representative before using these lamps in flashing or blinking applications.

The lamps may be dimmed by reducing voltage. However, this may cause the bulbs to blacken. If this occurs the lamp should be run at full voltage for fifteen minutes, thereby clearing the problem. Note that the nature of low voltage lighting systems requires the use of fluorescent-type dimmers. Lamp can be operated on AC or DC currents.



## WARNINGS AND CAUTION NOTICES

1

**▲ WARNING**

**Risk of electric shock**

- a Turn power off before inspection, installation or removal
- b Turn power off if glass bulb is broken, even if bulb continues to light. Remove and dispose of lamp.
- c Do not open. No user serviceable parts inside.

2

**▲ WARNING**

**Risk of fire**

- a Keep combustible materials away from lamp
- b Use in fixture rated for this product
- c Use in fixture rated for this product—see instructions
- d Operate base down to horizontal only
- e In table lamp use only with shade
- f Do not use in enclosed fixture or with lamp shade
- g Use in high intensity fixture rated for this product
- h Do not use as a night light
- i Burning position base down only
- j Use in enclosed fixture rated for this product
- k Fire Hazard! Do not use in Torchieres or other indoor residential fixtures

3

**▲ WARNING**

**Lamp emits IR radiation which may cause eye injury**

- a Avoid exposure of eyes and skin to unshielded lamp

4

**▲ WARNING**

**Pressurized lamp—unexpected rupture may cause injury, fire, or property damage**

- a Use eye protection when handling lamp
- b Avoid direct water/liquid contact
- c Use in enclosed fixture rated for this product
- d Operate lamp only in specified position
- e Do not touch glass with bare hands
- f Do not use lamp if outer glass is scratched or broken
- g Do not exceed 110% of rated voltage
- h Do not use where directly exposed to water or outdoors without an enclosed fixture
- j Do not exceed rated voltage
- j Do not use lamp if outer jacket is scratched or broken, even if bulb continues to light. Turn power off, remove and dispose.
- k Do not use in wet locations

5

**▲ WARNING**

**Unexpected lamp rupture may cause injury, fire, or property damage**

- a Do not touch glass with bare hands
- b Operate lamp only in specified position
- c Use in enclosed fixture rated for this product
- d Do not use lamp if outer glass is scratched or broken
- e Avoid direct water, liquid or metal contact

6

**▲ WARNING**

**Risk of burn**

- a Do not touch operating lamp

7

**▲ WARNING**

**A damaged lamp emits UV radiation which may cause eye/skin injury**

- a Turn power off if glass bulb is broken. Remove and dispose of lamp.

8

**▲ WARNING**

**Lamp emits UV radiation which may cause eye/skin injury.**

- a Avoid exposure of eyes and skin to unshielded lamp

9

**▲ CAUTION**

**Risk of burn**

- a Allow lamp to cool before handling
- b Allow lamp/fixture to cool before handling
- c Do not touch operating lamp
- d Turn power off before installing lamp

10

**▲ CAUTION**

**Lamp may shatter and cause injury if broken**

- a Wear safety glasses and gloves when handling lamp
- b Dispose of lamp in a closed container
- c Do not use lamp if outer glass is scratched or broken

11

**▲ CAUTION**

**Lamp emits UV radiation which may cause eye/skin irritation.**

- a Minimize exposure

12

**OP. INST.**

- a Burning Position - Base up
- b Burning position - horizontal
- c Burn base down only
- d Burn base down to horizontal
- e Limit seal temp to 650°F. Maintain min bulb wall temp of 500°F for operation of halogen cycle



## HALOGEN LAMPS CROSS REFERENCE

<i>GE Description</i>	<i>Osram/Sylvania Description</i>	<i>Philips Description</i>
<b>ORDER THIS GE LAMP</b>	<b>IF YOU CURRENTLY USE THESE LAMPS</b>	
<b>HALOGEN PAR LAMPS</b>		
60PAR16/H/SP10	60PAR16/CAP/NSP10	60PAR16/HAL/NSP10
60PAR16/H/FL30	60PAR16/CAP/NFL30	60PAR16/HAL/NFL27
75PAR16/H/SP10	75PAR16/CAP/NSP10	—
75PAR16/H/FL30	75PAR16/CAP/NFL30	—
Q21EMR16/C/SP12	—	—
Q21EMR16/C/FL25	—	—
50PAR20/H/SP10	50PAR20/CAP/SPL/NSP10	50PAR20/HAL/NSP9
50PAR20/H/FL25	50PAR20/CAP/SPL/NFL30	50PAR20/HAL/NFL30
50PAR30/H/SP10	50PAR30/CAP/SPL/NSP9	50PAR30S/HAL/NSP10
50PAR30/H/FL25	50PAR30/CAP/SPL/NFL25	50PAR30S/HAL/NFL30
50PAR30/H/FL35	50PAR30/CAP/SPL/FL40	50PAR30S/HAL/FL40
50PAR30L/H/SP10	50PAR30LN/CAP/SPL/NSP9	50PAR30L/HAL/NSP9
50PAR30L/H/FL40	52PAR30LN/CAP/SPL/NFL30	50PAR30L/HAL/NFL30
50PAR30L/H/WFL	50PAR30LN/CAP/SPL/WFL50	50PAR30L/HAL/WFL60
60PAR30/H/NSP9	60PAR30/CAP/SPL/NSP9	60PAR30S/HAL/NSP10
60PAR30/H/FL25	60PAR30/CAP/SPL/NFL25	60PAR30S/HAL/NFL30
60PAR30/H/FL35	—	60PAR30S/HAL/NFL40
75PAR30/H/SP10	75PAR30/CAP/SPL/NSP9	75PAR30S/HAL/NSP10
75PAR30/H/FL25	75PAR30/CAP/SPL/NFL25	75PAR30S/HAL/NFL30
75PAR30/H/FL35	75PAR30/CAP/SPL/FL40	75PAR30S/HAL/FL40
75PAR30L/H/SP10	75PAR30LN/CAP/NSP9	75PAR30L/HAL/NSP9
75PAR30L/H/FL25	75PAR30LN/CAP/NFL25	75PAR30L/HAL/NFL30
75PAR30L/H/WFL	75PAR30LN/CAP/WFL40	75PAR30L/HAL/FL40
35PAR36/H/SP5	36PAR36/CAP/VNSP5	—
35PAR36/H/SP8	36PAR36/CAP/NSP13	—
35PAR36/H/FL30	36PAR36/CAP/FL32	—
35PAR36/H/WFL	—	—
50PAR36/H/SP5	50PAR36/CAP/NSP6	—
50PAR36/H/SP8	—	—
50PAR36/H/FL30	—	—
45PAR/H/SP10	45PAR/CAP/SPL/SP9	45PAR38/HAL/SP12/LL
45PAR/H/FL25	45PAR/CAP/SPL/FL30	45PAR38/HAL/FL28/LL
50PAR/H/SP10	—	—
50PAR/H/FL25	—	—
53PAR/H/SS/SP10	—	—
53PAR/H/SS/FL25	—	—
60PAR/H/SP10	60PAR/CAP/SPL/SP10	60PAR38/HAL/NSP10/WLL
60PAR/H/FL25	60PAR/CAP/SPL/NSL25	60PAR38/HAL/FL28/WLL
66PAR/H/SS/SP10	—	—
66PAR/H/SS/FL25	—	—
75PAR/H/NSP9	75PAR/CAP/SPLSP9	75PAR38/HAL/SP10/WLL
75PAR/H/FL25	75PAR/CAP/SPL/FL30	75PAR38/HAL/FL28/WLL
79PAR/H/SS/SP10	—	—
79PAR/H/SS/FL25	—	—
90PAR/H/SP10	90PAR/CAP/SPL/SP9	90PAR38/HAL/SP12/LL
90PAR/H/FL25	90PAR/CAP/SPL/FL30	90PAR38/HAL/FL28/LL

<i>GE Description</i>	<i>Osram/Sylvania Description</i>	<i>Philips Description</i>
<b>ORDER THIS GE LAMP</b>	<b>IF YOU CURRENTLY USE THESE LAMPS</b>	
<b>HALOGEN PAR LAMPS (CONTINUED)</b>		
90PAR/H/WFL	90PAR/CAP/SPL/WFL50	90PAR38/HAL/WFL60/WLL
100PAR/H/SP10	—	—
100PAR/H/FL25	—	—
120PAR/H/SP9	120PAR/CAP/SPL/SP10	—
120PAR/H/FL30	120PAR/CAP/SPL/FL30	—
Q250PAR/SP10	250PAR/CAP/SPL/SP10	—
Q250PAR/FL30	250PAR/CAP/SPL/FL30	—
Q500PAR56NSP	500PAR56QNSP	500PAR56Q/NSP
Q500PAR56MFL	500PAR56QMFL	500PAR56Q/MFL
Q500PAR56WFL	500PAR56QWFL	500PAR56Q/WFL
Q1000PAR64NSP	1000PAR64QNSP	1000PAR64Q/NSP
Q1000PAR64MFL	1000PAR64QMFL	1000PAR64Q/MFL
Q1000PAR64WFL	1000PAR64QWFL	1000PAR64Q/WFL
<b>HALOGEN HIR™ PAR LAMPS</b>		
45PAR30/HIR/SP9XL	—	—
45PAR30/HIR/FL25XL	—	—
45PAR30/HIR/FL35XL	—	—
50PAR30/HIR/SP9	50PAR30/CAP/IR/NSP9	50PAR30S/IRC/NSP10
50PAR30/HIR/FL25	50PAR30/CAP/IR/NFL25	50PAR30S/IRC/NFL30
50PAR30/HIR/FL35	50PAR30/CAP/IR/FL40	50PAR30S/IRC/FL40
45PAR/HIR/R/SP10	—	—
45PAR/HIR/R/FL25	—	—
45PAR/HIR/SP12XL	—	—
45PAR/HIR/FL40XL	—	—
50PAR/HIR/SP6	—	—
50PAR/HIR/SP9	50PAR/CAP/IR/NSP9	50PAR38/IRC/SP12
50PAR/HIR/FL25	50PAR/CAP/IR/NFL25	50PAR38/IRC/FL25
50PAR/HIR/S/SP10	—	—
50PAR/HIR/S/FL25	—	—
55PAR/HIR/R/SP10	—	—
55PAR/HIR/R/FL25	—	—
55PAR/HIR/SP12XL	—	—
55PAR/HIR/FL40XL	—	—
60PAR/HIR/SP10	60PAR/CAP/IR/SP9	60PAR38/IRC/SP12
60PAR/HIR/FL30	60PAR/CAP/IR/FL30	60PAR38/IRC/FL25
60PAR/HIR/FL40	—	—
60PAR/HIR/WFL	—	60PAR38/IRC/WFL
60PAR/HIR/S/SP10	—	—
60PAR/HIR/S/FL25	—	—
70PAR/HIR/SP10	—	—
70PAR/HIR/FL25	—	—
80PAR/HIR/SP10	80PAR/CAP/IR/SP10	—
80PAR/HIR/SP12	80PAR/CAP/IR/SP12	—
80PAR/HIR/FL25	80PAR/CAP/IR/FL25	—
90PAR/HIR/R/SP10	—	—
90PAR/HIR/R/FL25	—	—



## HALOGEN LAMPS CROSS REFERENCE

<i>GE Description</i>	<i>Osram/Sylvania Description</i>	<i>Philips Description</i>
<b>ORDER THIS GE LAMP</b>	<b>IF YOU CURRENTLY USE THESE LAMPS</b>	
<b>HALOGEN HIR™ PAR LAMPS (CONTINUED)</b>		
90PAR/HIR/SP12XL	—	—
90PAR/HIR/FL40XL	—	—
100PAR/HIR/SP10	100PAR/CAP/IR/SP10	100PAR38/IRC/SP10
100PAR/HIR/FL25	100PAR/CAP/IR/NFL25	100PAR38/IRC/FL25
100PAR/HIR/FL40	100PAR/CAP/IR/FL40	100PAR38/IRC/WFL
<b>HALOGEN MR11 LAMPS</b>		
Q20MR11/SP15	20MR11/SP10/FTB	20MRC11/SP10
Q20MR11/NFL30	20MR11/FL35/FTD	20MRC11/FL30
Q35MR11/NSP20	35MR11/SP10/FTE	—
Q35MR11/NFL30	35MR11/FL40/FTH	—
<b>HALOGEN STANDARD MR16 LAMPS</b>		
Q20MR16/SP	20MR16/NSP8/ESX	20MRC16/SP10
Q20MR16/FL	20MR16/FL40/BAB	20MRC16/FL36
Q50MR16/SP	50MR16/NSP12/EST	50MRC16/SP10
Q50MR16/FL	20MR16/FL40/EXN	50MRC16/FL38
<b>HALOGEN CONSTANTCOLOR® PRECISE™ MR16 LAMPS</b>		
Q20MR16/C/VNSP7	20MR16/T/NSP10	20MRC16/CC/SP10
Q20MR16/C/NSP15	—	20MRC16/CC/NFL24
Q20MR16/C/FL40	20MR16/T/NFL40	20MRC16/CC/FL38
Q35MR16/C/SP20	35MR16/T/NFL25	—
Q35MR16/C/FL40	35MR16/T/FL40	—
Q42MR16/C/VNSP9	50MR16/T/NSP10	—
Q50MR16/C/NSP15	—	50MRC16/CC/SP10
Q50MR16/C/NFL25	50MR16/T/NFL25	50MRC16/CC/NFL24
Q50MR16/C/NFL30	—	—
Q50MR16/C/FL40	50MR16/T/FL40	50MRC16/CC/NFL38
Q71MR16/C/NSP15	65MR16/T/NSP10	—
Q71MR16/C/NFL25	65MR16/T/NFL25	—
Q71MR16/C/FL40	65MR16/T/FL40	—
<b>HALOGEN HIR™ MR16 LAMPS</b>		
Q37MR16/HIR/CG10	37MR16/IR/NSP10C	35MRC16/IRC/SP8
Q37MR16/HIR/CG25	37MR16/IR/NFL25C	35MRC16/IRC/NFL24
Q37MR16/HIR/CG40	37MR16/IR/FL40C	35MRC16/IRC/FL36
Q50MR16/HIR/CG10	50MR16/IR/NSP10C	45MRC16/IRC/SP8
Q50MR16/HIR/CG25	50MR16/IR/NFL25C	45MRC16/IRC/NFL24
Q50MR16/HIR/CG40	50MR16/IR/FL40C	45MRC16/IRC/FL36

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<b>HALOGEN BIPIN LOW VOLTAGE</b>		
Q5T3/CL	5T3Q/CL	5W12V/Capsule
Q10T3/CL	10T3Q/CL	10W12V/Capsule
Q20T3/CL	20T3Q/CL/AX	20W12V/Capsule
Q35T3/CL	35TQ/CL/AX	35W12V/Capsule
Q50T4/CL	50T4Q/CL	50W12V/Capsule
Q75T4/CL	75T4Q/CL/RP	—
<b>HALOGEN SINGLE-ENDED</b>		
Q100CL/DC	100Q/CL/DC	100Q/CL/DC
Q100CL/MC	100Q/CL/MC	100Q/CL
Q100DC	100Q/DC	—
Q150CL/DC/2V	150Q/CL/DC/1	—
Q150CL/DC	150Q/CL/DC	150Q/CL/DC
Q150CL/MC	150Q/CL/MC/2	150Q/CL
Q150CL/MC/2V	150Q/CL/MC	—
Q150DC	150Q/DC	150Q/DC
Q150MC	150Q/MC	150Q
Q250CL/DC	250Q/CL/DC	250Q/CL/DC
Q250CL/MC	250Q/CL/MC/2	250Q/CL
Q250DC	250Q/DC	—
Q250MC	250Q/MC	—
<b>HALOGEN DOUBLE-ENDED</b>		
Q100T3/CL/CD	100T3Q/CL	BC100T3Q/CL/TP
Q150T3/CL	150T3Q/CL	BC100T3Q/CL/TP
Q300T3/CL	300T3Q/CL	300T3Q/P/CL
Q500T3/CL	500T3Q/CL	500T3Q/P/CL