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**CANTOUSA RETRO-Passive 2.0 700 Energy Efficient LED Light Engine  
Owner's Manual**



## **RETRO-Passive® 2.0 700**

700W Incandescent Replacement LED Engine 120V • 230V • 240VAC

### **Energy efficient LED Light Engine**

Designed to retrofit directly into existing fixtures.

The RETRO-Passive 2.0 is a TUV listed retrofit kit that rapidly transforms existing inefficient incandescent fixtures into energy efficient LED fixtures. Our patented technology allows the fixture to smoothly dim from 0-100% utilizing existing dimming technology. Retrofit kits are available with a variety of options for both recessed and pendant style fixtures. Installation is as easy as changing a light bulb. Our LED technology creates even fields and delivers consistent color. The RETRO-Passive 2.0 700 delivers more light than most 700 watt incandescent bulbs it replaces with only a 72 watt load.



**Fairfax High School, Fairfax, Virginia 105 RETRO 500s at 3000K  
Installed by Artistic Concepts Group**

## **What the Fusion 2.0 IS**

- More cost effective than fixture replacement
- Large lumen output for this market
- Listed for screw in replacement
- Field swappable tops
- Serviceable safety cable
- Dims on existing dimming systems with no additional installation of control system
- 0-100% dimming without flicker, pulse, or stepping
- 80+ High CRI

## **Electrical Data**

- 72 Watts (72.3)
- Power Factor (PF) .9955
- Lumens: 8107 @ 2700K
- Lumens per watt: 112.3
- LM 70: >50,000 Hours
- CRI@2700K: 81.11, R9+1.8
- 4 lbs 9.7oz w/Reflector (2.09 kg)

## **Applications**

- 10 feet to 60 feet high ceilings (3 to 18.5 meter high ceilings)
- Where dimming is a key concern
- Where there is no desire or budget to replace existing fixtures
- Where access is limited
- Where a custom solution is required
- Where the ceiling cannot be disturbed

## **Typical Installations**

- Auditoriums
- Churches and houses of worship
- Arenas
- Lobbies
- Museums
- Educational facilities
- Convention centers

## **Top Types**

- **E26 – Edison**
- **E39 – Mogul \***
- **BA15D \***
- **Par Ring/Bare Wire**
- **Bi-Pin**
- **Custom Options**

## **CCT Lumen Output**

- **2700K:** 8107 Lumens
- **3000K:** 8489 Lumens
- **3500K:** 8669 Lumens
- **4000K:** 8769 Lumens
- **5000K:** 8902 Lumens

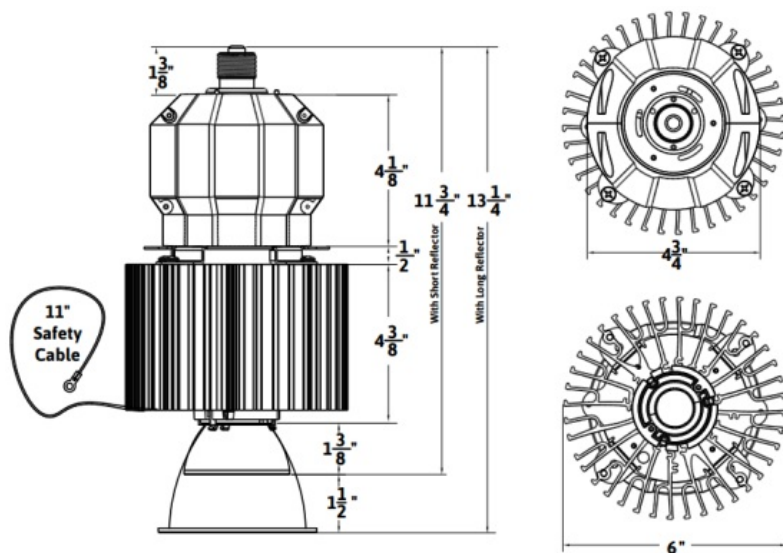
## **Fixture Reflectors**

- Tall 15 Degrees
- Tall 23 Degrees
- Tall 46 Degrees
- Short 26 Degree
- Short 40 Degree
- Short 59 Degrees
- Short 70 Degrees
- None 120 Degrees

## Color Temp

- 2700K –
- 3000K – Standard
- 3500K –
- 4000K –
- 5000K –

## Fixture Drawing



**Weight:** 4 lbs 9.7oz w/Reflector 2.09 kg w/Reflector

## Order Guide

### 1. RETRO

00	P2		700			
	LIGHT	VOLTAGE	FIXTURE TYPE	SINK SIZE	COLOR TEMP	CRI
	P2	120	700	X (Standard)	2.7K	80
		230			3.0K	*90
					3.5K	*95
					4.0K	*97
					5.0K	

\* Chips with a CRI greater than 80 are an additional 6 weeks beyond standard delivery

## 2. TOPS

00	TOP		
	TOP	TYPE	LENGTH
	TOP	E26	→ 1.35" or *CCC
		BW (Bare Wire)	→ 12" min, increase in 6" increments

\*Custom height in inches to the nearest 1/4" from the top fo the plate to the tip. **Note:** E11 is unavailable for the 700 and 100

## 3. REFLECTOR

00			
	REFLECTOR	DEGREE	SIZE
	REF	15	→ T
		23	→ T
		46	→ T
		26	→ S
		40	→ S
		59	→ S
		70	→ S
	ZOR (ZORYA)	25	

## 4. ADAPTER & EXTENDER OPTIONS

00		
	TYPE	TYPE
	ADP	→ *BAYONET (BA15D)
	ADP	→ *MOGUL (E39 TO E26)
	EXT	→ 1.25" or 2.5"

\*E39 and BA15D require an E26 top with adapters used to make this unit compatible with these top types.

## 5. DIFFUSERS

00	DIF	
	DIFFUSER	TYPE
	DIF	SMALL (For Shorts)
		LARGE (For Talls)
		KIT (For Shorts and Talls)

## Photometrics (R700) 3,000K

### Multiplication Factor for Color Temperature

- to convert to 2,700 Kelvin – fc X .9488
- to convert to 3,500 Kelvin – fc X 1.0196
- to convert to 4,000 Kelvin – fc X 1.0439
- to convert to 5,000 Kelvin – fc X 1.0617

### To Solve Frotrande

Over A Distance

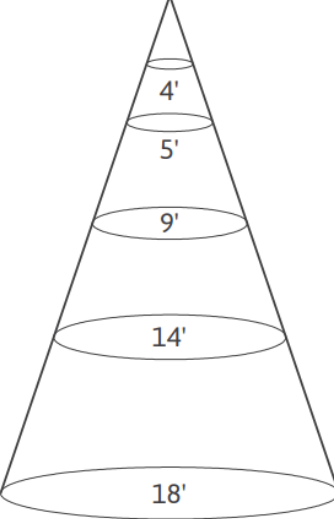
Peak Output Distance Distance

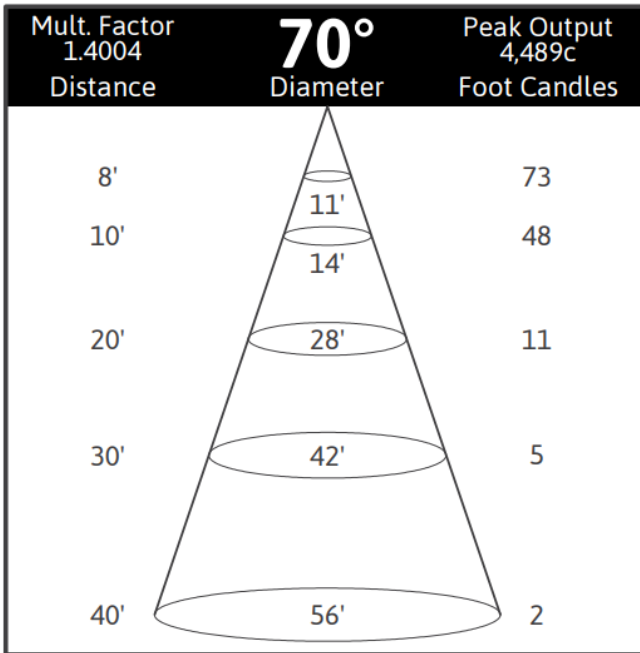
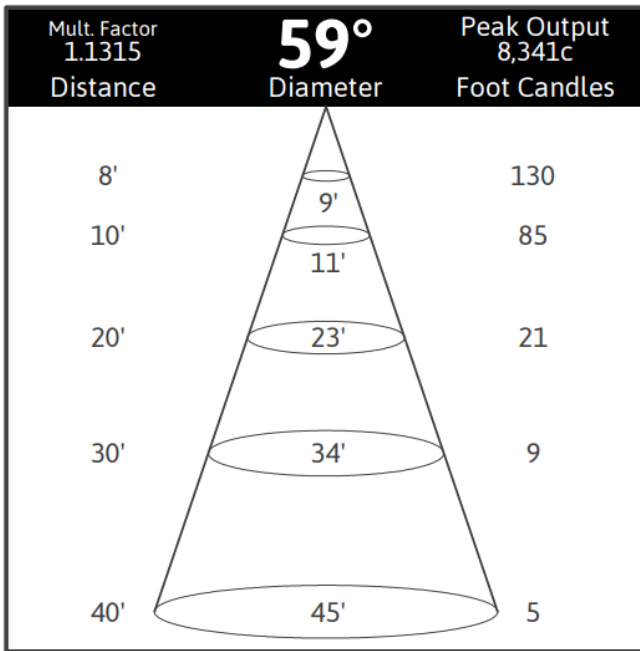
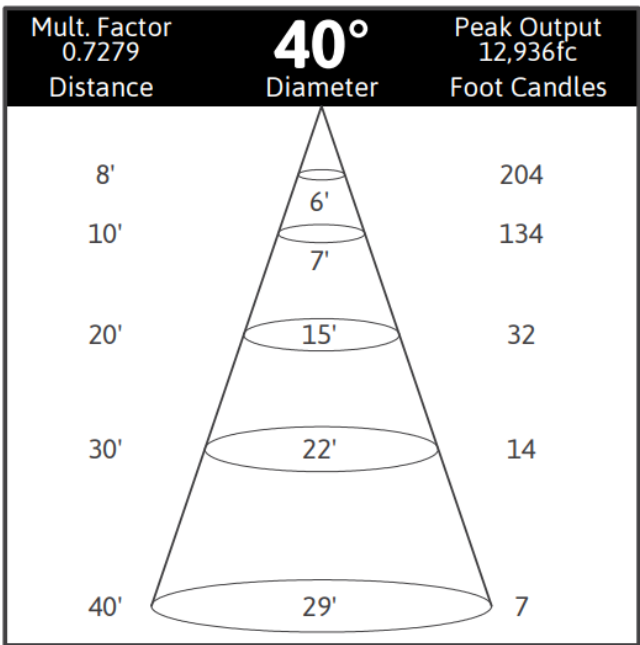
### To Solver A

Distance

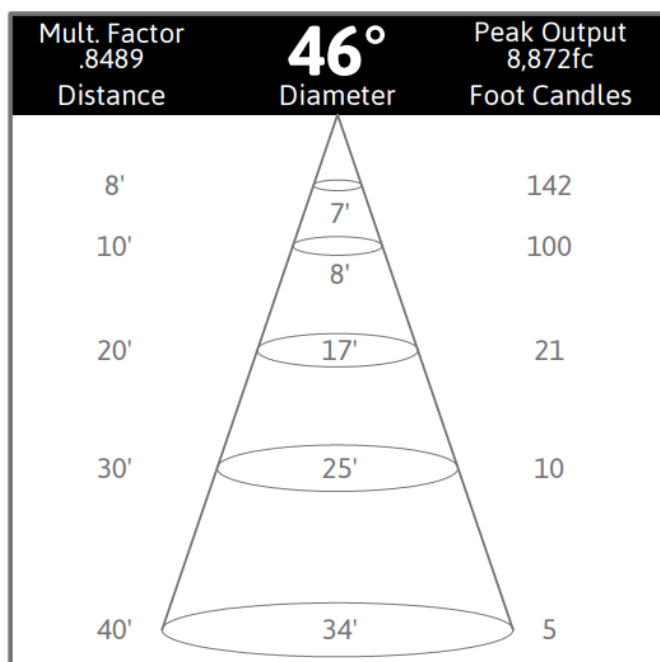
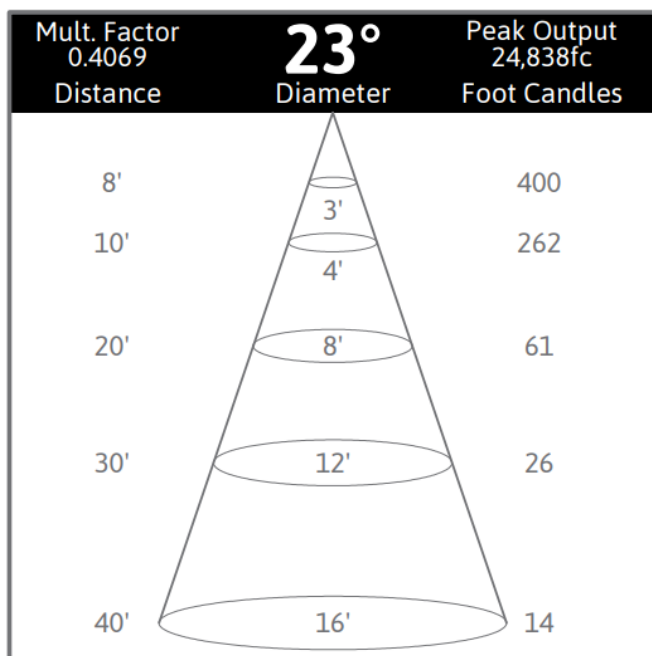
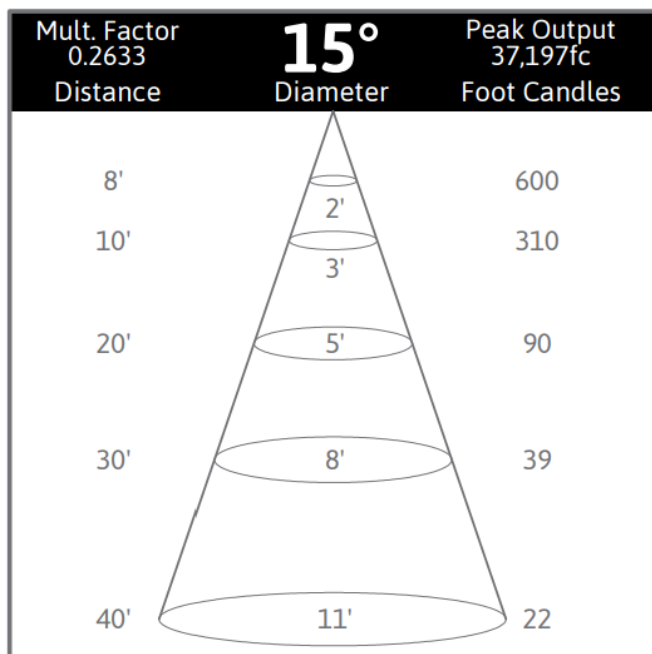
Distance X Mult. Factor

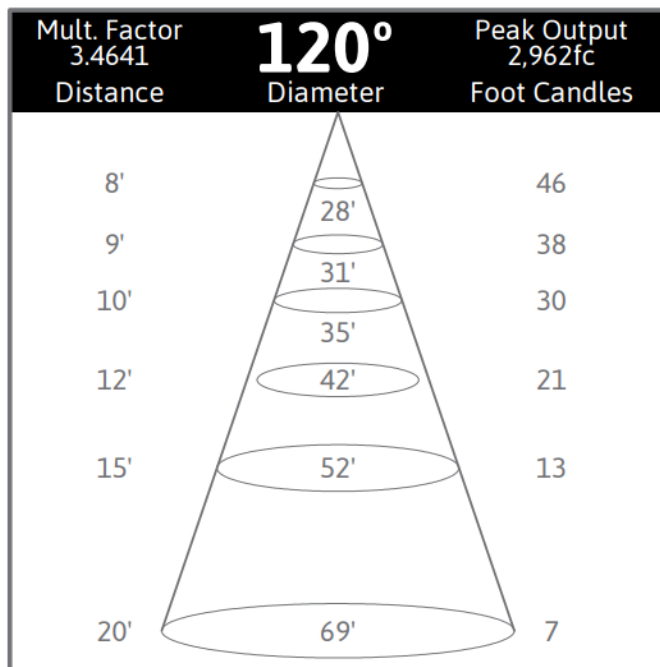
Mult. Factor 0.4617	26° Diameter	Peak Output 20,738fc
Distance		Foot Candles
8'		331
	4'	
10'	5'	216
20'	9'	51
30'	14'	22
40'	18'	12











Contact your local representative or dealer for IES files.



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## Documents / Resources

	<p><a href="#">CANTOUSA RETRO-Passive 2.0 700 Energy Efficient LED Light Engine [pdf]</a> Owner's Manual</p> <p>RETRO-Passive 2.0 700 Energy Efficient LED Light Engine, RETRO-Passive 2.0 700, Energy Efficient LED Light Engine, Efficient LED Light Engine, LED Light Engine, Light Engine, Engine</p>
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## References

- [User Manual](#)

■ CANTOUSA

🔍 CANTOUSA, Efficient LED Light Engine, Energy Efficient LED Light Engine, Engine, LED Light Engine, Light Engine, RETRO-Passive 2.0 700, RETRO-Passive 2.0 700 Energy Efficient LED Light Engine

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