# 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.





CANTOUS

INNOVATIVE LIGHTING PRODUCTS

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 -

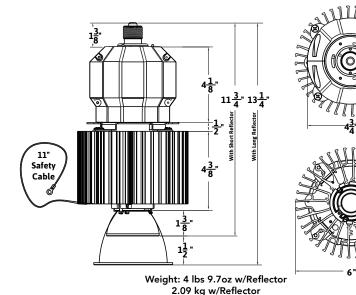
3000K - Standard

3500K -

4000K -

5000K -

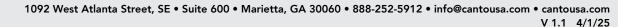
# **Fixture Drawing**











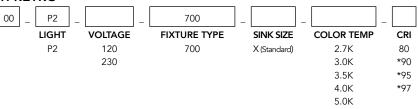
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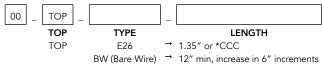


#### **Order Guide**

#### 1. RETRO

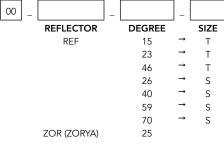


<sup>2.</sup> TOPS

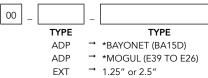


\*Custom height in inches to the nearest 1/4" from the top fo the plate to the tip. Note: E11 is unavailable for the 700 and 1000

#### 3. REFLECTOR



#### 4. ADAPTER & EXTENDER OPTIONS



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

#### 5. DIFFUSERS



70°

11'

14'

28'

42'

Foot Candle

73

48

11

5

### 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

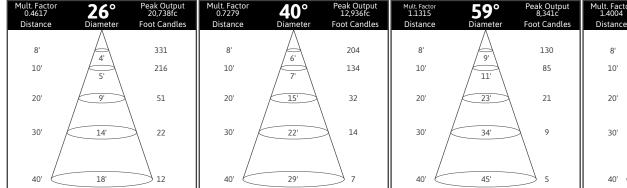
To Solve Footcandles Over A Distance

Distance

Peak Output ÷ (Distance X Distance)

Distance X Mult.Factor

To Solve Area Over A



40'	18'	12	40'	29'	7	40'	45'	5	40'	56'	2
Mult. Factor 0.2633 Distance	15° Diameter	Peak Output 37,197fc Foot Candles	Mult. Factor 0.4069 Distance	23° Diameter	Peak Output 24,838fc Foot Candles	Mult. Factor .8489 Distance	<b>46°</b> Diameter	Peak Output 8,872fc Foot Candles	Mult. Factor 3.4641 Distance	120° Diameter	Peak Output 2,962fc Foot Candles
8'	2'	600	8'	3'	400	8'	7'	142	8'	28'	46
10'	3'	310	10'	4'	262	10'	8'	100	9' 10'	31'	38 30
20'	5'	90	20'	8'	61	20'	17'	21	12'	35'	21
30'	8'	39	30'	12'	26	30'	25'	10	15'	52'	13
40'	11'	22	40'	16'	14	40'	34'	5	20'	69'	7

Contact your local representative or dealer for IES files.







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