

RETRO-Fusion™ 2.0 500

500W Incandescent Replacement LED Engine
120V • 230V • 240VAC

CANTOUSA
INNOVATIVE LIGHTING PRODUCTS

Energy efficient LED Light Engine

Designed to retrofit directly into existing fixtures.

The RETRO-Fusion 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-Fusion 2.0 500 delivers more light than most 500 watt incandescent bulbs it replaces with only a 49 watt load.

**10 Year
LED Array
Warranty**



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 bases
- 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

- 49 Watts (49.07)
- Power Factor (PF) .9955
- Lumens: 5676 @ 2700K
- Lumens per watt: 115.67
- LM 70: >50,000 Hours
- CRI@2700K: 82,R9+4.9
- 1 lb 12.9 oz - 15.1 w/Reflector (.820-.905 kg)

Applications

- 9 feet to 50 feet high ceilings (2.75 - 15.25 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

Base Types

E26 - Edison
E11 - Mini Candelabra
E39 - Mogul *
BA15D *
Par Ring/Bare Wire
Bi-Pin
Custom Options

CCT Lumen Output

2700K: 5676 Lumens
3000K: 6024 Lumens
3500K: 6239 Lumens
4000K: 6309 Lumens
5000K: 6372 Lumens

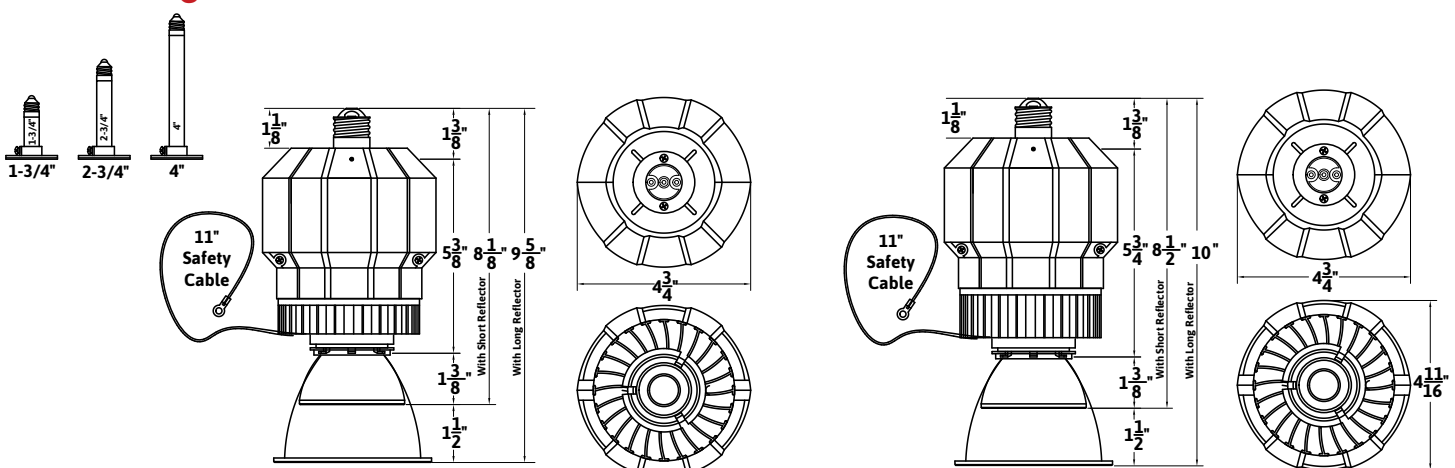
Fixture Lenses

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



Short

Weight: 1lb 12.9oz w/Reflector
.820 kg w/Reflector

Tall

Weight: 1lb 15.1oz w/Reflector
.905 kg w/Reflector



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Order Guide

1. RETRO

00	F2		500			
	LIGHT	VOLTAGE	FIXTURE TYPE	SINK SIZE	COLOR TEMP	CRI
	F2	120 230	500	X (Standard) S (Short)	2.7K 3.0K 3.5K 4.0K 5.0K	80 *90 *95 *97

2. TOPS

00	TOP		
	TOP	TYPE	LENGTH
	TOP	E26 → 1.35" or *CCC	
		E11 → 1.75", 2.75", 4.00" or *CCC	
		BW (Bare Wire) → 12" min, increase in 6" increments	

*Custom height in inches to the nearest 1/4" from the top to the plate to the tip.

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

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 base with adaptors used to make this unit compatible with these base types.

5. DIFFUSERS

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

Photometrics (R500) 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

Peak Output ÷ (Distance X Distance)

To Solve Area Over A
Distance

Distance X Mult.Factor

Mult. Factor 0.4617 Distance	26° Diameter	Peak Output 10,817fc Foot Candles	Mult. Factor 0.7279 Distance	40° Diameter	Peak Output 7,086fc Foot Candles	Mult. Factor 1.1315 Distance	59° Diameter	Peak Output 4,386c Foot Candles	Mult. Factor 1.4004 Distance	70° Diameter	Peak Output 2,568c Foot Candles
8'	4'	172	8'	6'	109	8'	9'	69	8'	11'	43
10'	5'	109	10'	7'	70	10'	11'	44	10'	14'	25
20'	9'	26	20'	15'	17	20'	23'	10	20'	28'	7
30'	14'	12	30'	22'	8	30'	34'	5	30'	42'	3
40'	18'	7	40'	29'	5	40'	45'	3	40'	56'	1

Mult. Factor 0.2633 Distance	15° Diameter	Peak Output 20,965fc Foot Candles	Mult. Factor 0.4069 Distance	23° Diameter	Peak Output 11,313fc Foot Candles	Mult. Factor .8489 Distance	46° Diameter	Peak Output 5,115fc Foot Candles	Mult. Factor 3.4641 Distance	120° Diameter	Peak Output 1,637fc Foot Candles
8'	2'	328	8'	3'	262	8'	7'	80	8'	28'	26
10'	3'	210	10'	4'	168	10'	8'	51	9'	31'	20
20'	5'	52	20'	8'	42	20'	17'	13	10'	35'	16
30'	8'	23	30'	12'	19	30'	25'	6	12'	42'	11
40'	11'	13	40'	16'	10	40'	34'	3	15'	52'	7
									20'	69'	4

Contact your local representative or dealer for IES files.

