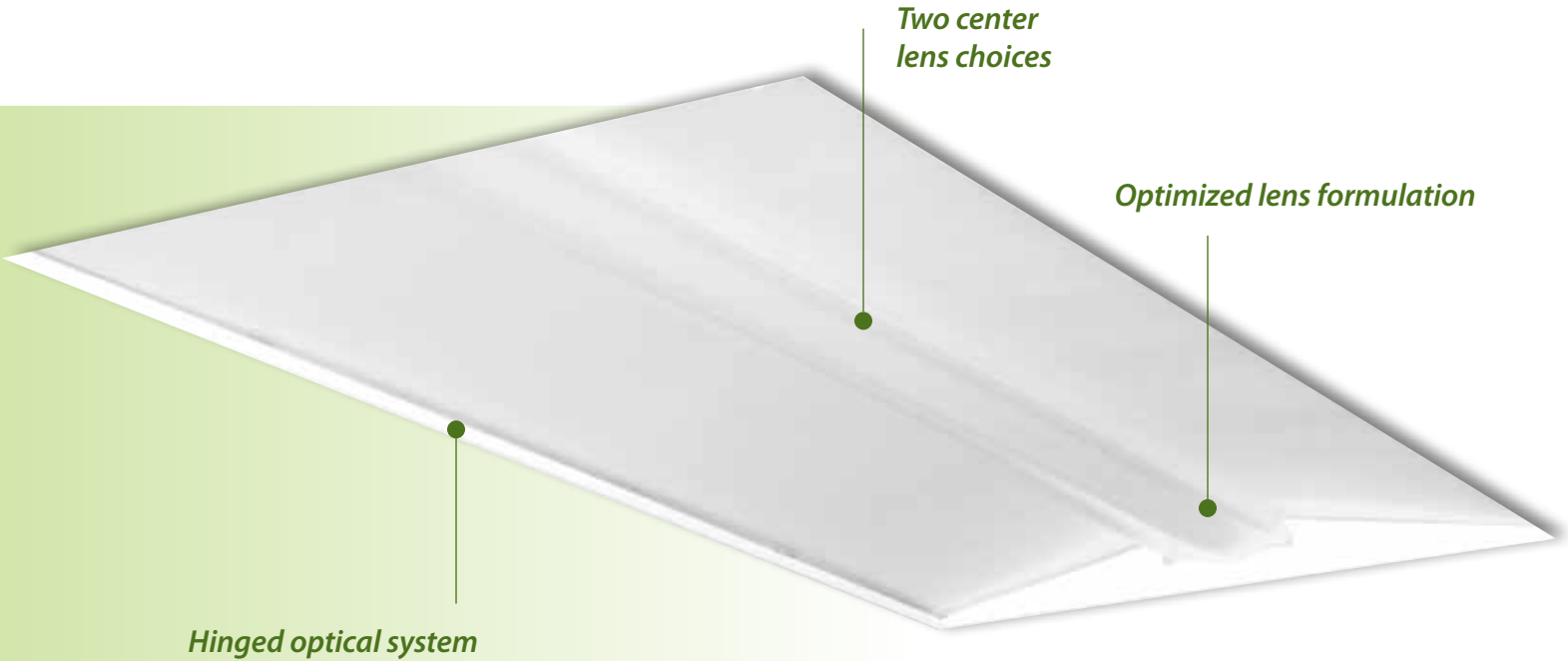




**SERRANO™**  
ARCHITECTURAL LUMINAIRE

# SERRANO™ ARCHITECTURAL LUMINAIRE

Columbia's Serrano achieves performance and architectural elegance in a singular design. Its stylish, 3-element diffuser combines a performance-optimized center optic with two high-transmission, lenticular side lenses to provide superior efficiency and a batwing distribution. Its hinged optical system was designed with serviceability in mind to provide below the ceiling access to all electrical components.



## PERFORMANCE

Serrano delivers unrivaled performance combining a batwing distribution with superior efficiencies.

Fixture	Lamps	Fixture Efficiency	
		Full	Performance
2' x 4'	2 F28T8	85.5%	89.5%
	2 F28T5	89.2%	91.4%
2' x 2'	2 F17T8	76.3%	76.8%

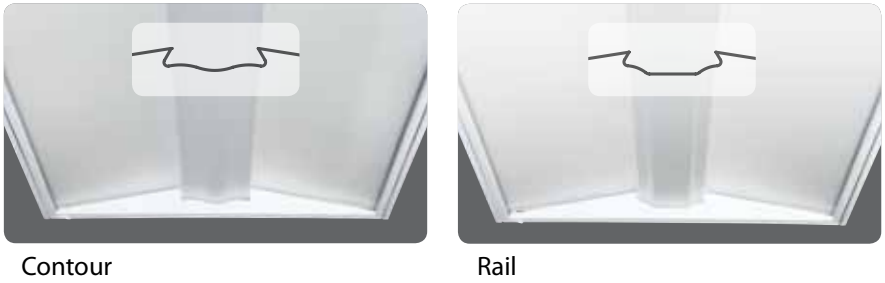
Typical Footcandle Levels (Maintained)									
				TiHe24	ASHRAE 90.1, 2010	8 x 10 Spacing		8 x 12 Spacing	
	Lamps	Lamp Lumens	Ballast Factor	Watts/ft²	Watts/ft²	Footcandles	Watts/ft²	Footcandles	Watts/ft²
T8	2 F28T8	2725	0.88	0.8	1.0	47	0.62	42	0.52
T5	2 F28T5	2625	1.0	0.8	1.0	51	0.77	45	0.64

Sample lighting levels are based on a 2 x 4 fixture in an 80' x 80' x 9' room with 80/50/20 surface reflectances and a 2.5' work plane. Light loss factors include ballast factor, .90 LDD and .95 LLD. Fixture uses performance reflector.

# FEATURES

## LENS OPTIONS

Serrano is available with two stylish but subtle center lens options.



## ENERGY SAVINGS

Serrano was developed as part of Columbia Lighting's createchange® family, saving 20% or more energy versus traditional fluorescent 3-lamp fixtures. For example, with 28W T8 lamps, a 2-lamp Serrano consumes only 50 watts, saving 41%. A 2-lamp 28W T5 consumes just 66 watts, saving 27%.

## LIGHTING POWER DENSITY

With Serrano's extraordinary efficiency, Columbia has simplified the challenge of meeting Lighting Power Density codes. On 8' x 10' centers, a 2-lamp 28 watt T8 2 x 4 has an LPD of 0.62 and a 2-lamp 28 watt T5 2 x 4 has an LPD of only 0.77.



To receive the createchange trademark a product must save at least 20% energy, maintain lighting quality, and maintain light levels. Columbia achieves these goals through innovative design that optimizes performance.

## CONTROL VERSATILITY

Serrano is fully compatible with daylight harvesting, occupancy/vacancy sensing, and manual or automated controls enabling even greater energy savings.

## WIHUBB ENABLED



With this option, Serrano arrives on site with an In-Fixture Module installed, ready to directly interface with Hubbell Building Automation's wiHUBB peer-to-peer, self-healing, wireless mesh network.

## SERVICEABILITY

Serrano provides the level of serviceability that you've come to expect from Columbia products. The hinged optical and reflector systems allow easy, tool-less access to the lamps and ballast from below the ceiling.



# SERRANO™ ENERGY SAVINGS AND SUSTAINABILITY



Hubbell Inc. established its Hubbell Sustainability Initiative (HSI) to achieve an ongoing culture of environmental responsibility with its employees, customers, suppliers, community, and industry by implementing educational programs and sustainable practices. Hubbell's vision is to be a recognized leader in conserving natural resources to sustain our environment. Serrano embodies the HSI philosophy through environmentally responsible design.



- 90% recycled steel
- Low energy and carbon footprint
- Long lamp life
- Manufactured from 80% recyclable materials by weight

## ORDERING GUIDE

EXAMPLE SER24-232G-CP-E104U-F0835

SER		-		-		-		-	
MODEL	NO. OF LAMPS	CEILING TYPE	SHIELDING	REFLECTOR	VOLTAGE	OPTIONS			
SER Serrano™ Recessed Architectural Luminaire	1 One	G Grid	C Contour 	P Performance	U 120V-277V	<b>C388</b> 3-Wire Flex <b>C488</b> 4-Wire Flex <b>C588</b> 5-Wire Flex <b>EL</b> Emergency Battery Pack <b>GLR</b> Fast Blow Fuse <b>GMF</b> Slow Blow Fuse <b>NYC</b> NYC Compliant <b>WIH</b> wiHUBB Enabled <sup>4</sup>			
	2 Two	SM Surface Mount	R Rail 	F Full	347 347V <sup>2</sup>				
	3 Three	For hard ceilings use flange kit.							
SIZE	LAMP TYPE								
22 2' x 2'	14 2', T5: 14 Watt								
24 2' x 4'	17 2', T8: 17 Watt								
	24 2', TSHO: 24 Watt								
	40TT Twin Tube Compact, 2G11 Base: 40 Watt								
	28 4', T5: 28 Watt								
	32 4', T8: 32, 30, 28, or 25 Watt								
	54 4', TSHO: 54 or 51 Watt								
ACCESSORIES (ORDER SEPARATELY)		BALLAST			LAMPS				
FK22 2' x 2' Single Flange Kit		E Electronic T8, 0.88 Ballast Factor, Instant Start				F0730 30K 75CRI T8 Lamps Installed			
FK24 2' x 4' Single Flange Kit		ED Electronic T8, T5, TSHO Dimming, Programmed Start <sup>1,2</sup>				F0735 35K 75CRI T8 Lamps Installed			
FKCR Flange Kit Row Adaptor		ESD Electronic T8, 0.88 Ballast Factor, Step Dimming, Programmed Start <sup>1</sup>				F0741 41K 75CRI T8 Lamps Installed			
		ELW Electronic T8, 0.77 Ballast Factor, Low Wattage, Instant Start				F0830 30K 82CRI T8 Lamps Installed			
		EHL Electronic T8, 1.18 Ballast Factor, High Wattage, Instant Start				F0835 35K 82CRI T8 Lamps Installed			
		E104 Electronic T8, 1.04 Ballast Factor, Instant Start (N/A 1-Lamp)				F0841 41K 82CRI T8 Lamps Installed			
		ESD104 Electronic T8, 1.04 Ballast Factor, Step Dimming, Programmed Start <sup>1</sup>				F028830 30K 82CRI 28W T8 Lamps Installed <sup>3</sup>			
		EP104 Electronic T8, 1.04 Ballast Factor, Programmed Start				F028835 35K 82CRI 28W T8 Lamps Installed <sup>3</sup>			
		EP Electronic T5, TSHO, 1.0 Ballast Factor or T8, 0.88 Ballast Factor, Programmed Start				F028841 41K 82CRI 28W T8 Lamps Installed <sup>3</sup>			
		EP95 Electronic T5, 0.95 Ballast Factor, Programmed Start (N/A TSHO, 1-Lamp)				FOH830 30K High Lumen T8 Lamps Installed			
		ESD95 Electronic T5, 0.95 Ballast Factor, Step Dimming, Programmed Start (N/A TSHO, 1-Lamp)				FOH835 35K High Lumen T8 Lamps Installed			
		EP115 Electronic T5, 1.15 Ballast Factor, Programmed Start (N/A TSHO, 1-Lamp)				FOH841 41K High Lumen T8 Lamps Installed			
		ESD115 Electronic T5, 1.15 Ballast Factor, Step Dimming, Programmed Start (N/A TSHO)				F5830 30K 85CRI T5 or TSHO Lamps Installed			
		ESD80 Electronic TSHO, 0.80 Ballast Factor, Step Dimming, Programmed Start (2-Lamp 54W only)				F5835 35K 85CRI T5 or TSHO Lamps Installed			
		ETT Electronic Twin Tube, Instant Start				F5841 41K 85CRI T5 or TSHO Lamps Installed			
		EPTT Electronic Twin Tube, Programmed Start				F5H830 30K High Lumen T5 Lamps Installed			
						F5H835 35K High Lumen T5 Lamps Installed			
						F5H841 41K High Lumen T5 Lamps Installed			
						FTT830 30K Twin Tube Lamps Installed			
						FTT835 35K Twin Tube Lamps Installed			
						FTT841 41K Twin Tube Lamps Installed			

Damp Label - standard

Damp Label - standard

<sup>1</sup> Not compatible with T8 25, 28, or 30 watt energy savings lamps.

<sup>2</sup> Where available.

<sup>3</sup> Not recommended for use with step or full dimming.

<sup>4</sup> Not available with surface mount.

CO1065 11/11

Copyright © 2011 Columbia Lighting, a division of Hubbell Lighting, Inc.  
All rights reserved. Because of continuing product improvement programs, Columbia Lighting reserves the right to change specifications without notice.  
Printed on mixed fiber paper (20% well-managed forests, 80% post consumer).

701 Millennium Blvd. Greenville, SC 29607  
Tel 864.678.1000 Fax 866.898.0131  
www.columbialighting.com

Columbia  
LIGHTING



Hubbell Lighting, Inc.