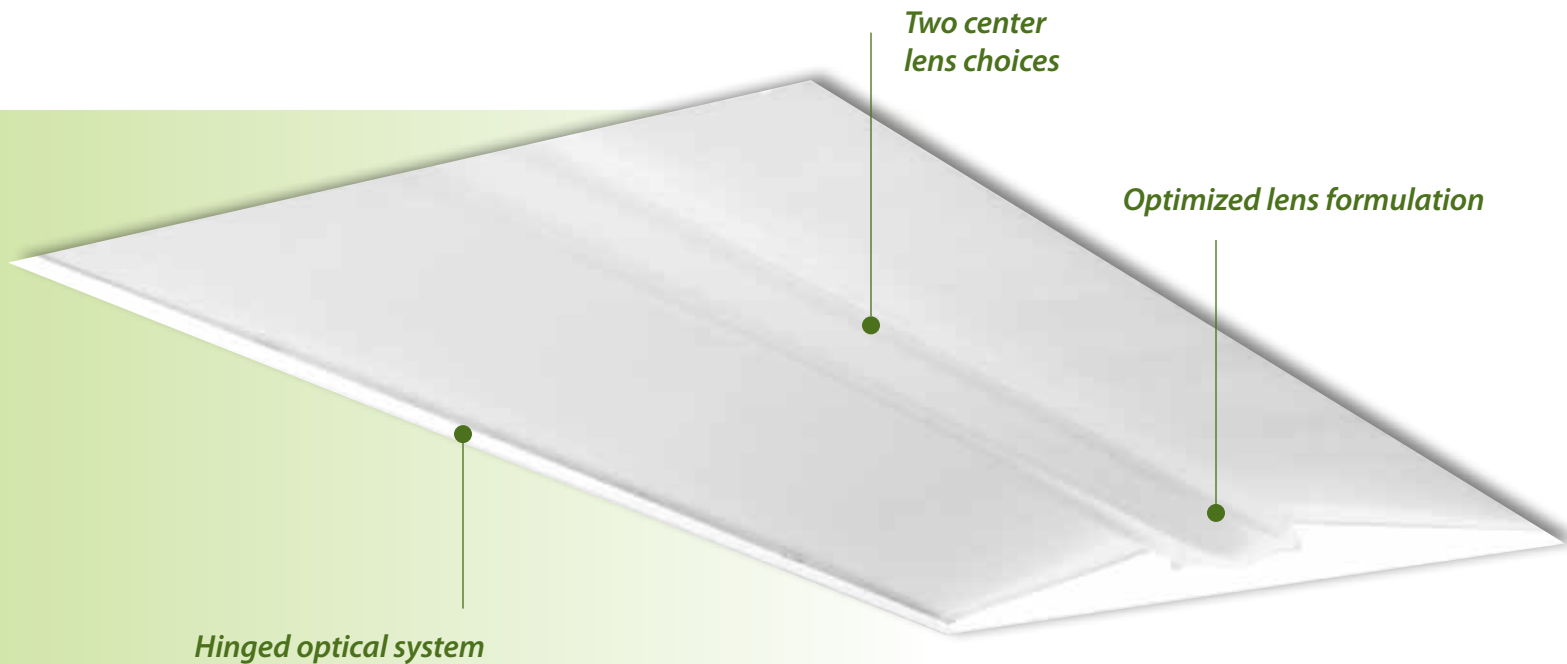




SERRANO[®]
ARCHITECTURAL LUMINAIRE

SERRANO® ARCHITECTURAL LUMINAIRE

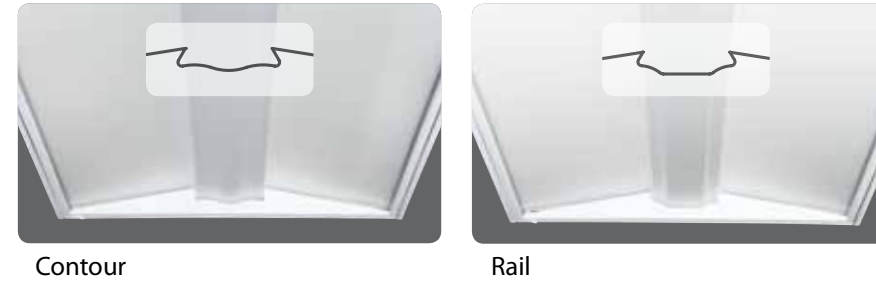
Columbia's Serrano achieves performance and architectural elegance in a singular design. Its stylish, 3-element diffuser combines a performance-optimized center optic with two high-transmission, lenticular side lenses to provide superior efficiency and a batwing distribution. Its hinged optical system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



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%.

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.

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.



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)									
	Lamps	Lamp Lumens	Ballast Factor	TiHe24		ASHRAE 90.1, 2010		8 x 12 Spacing	
				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.

createchange

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.



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.

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	AIR FUNCTION	VOLTAGE	OPTIONS		SIZE	LAMP TYPE	REFLECTOR	BALLAST	LAMPS
SER Serrano® Recessed Architectural Luminaire	1 One 2 Two 3 Three	G Grid SM Surface Mount For hard ceilings use flange kit.	C Contour R Rail	Blank Static	U 120V-277V 347 347V ²	C388 3-Wire Flex C488 4-Wire Flex C588 5-Wire Flex EL Emergency Battery Pack GLR Fast Blow Fuse GMF Slow Blow Fuse NYC NYC Compliant WIH wiHUBB Enabled ⁴	22 2' x 2' 24 2' x 4'	14 2', T5: 14 Watt 17 2', T8: 17 Watt 24 2', T5HO: 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', T5HO: 54 or 51 Watt	P Performance F Full	E Electronic T8, 0.88 Ballast Factor, Instant Start ED Electronic T8, T5, T5HO Dimming, Programmed Start ^{1,2} ESD Electronic T8, 0.88 Ballast Factor, Step Dimming, Programmed Start ¹ ELW Electronic T8, 0.77 Ballast Factor, Low Wattage, Instant Start EHL Electronic T8, 1.18 Ballast Factor, High Wattage, Instant Start E104 Electronic T8, 1.04 Ballast Factor, Instant Start (N/A 1-Lamp) ESD104 Electronic T8, 1.04 Ballast Factor, Step Dimming, Programmed Start ¹ EP104 Electronic T8, 1.04 Ballast Factor, Programmed Start EP Electronic T5, T5HO, 1.0 Ballast Factor or T8, 0.88 Ballast Factor, Programmed Start EP95 Electronic T5, 0.95 Ballast Factor, Programmed Start (N/A T5HO, 1-Lamp) ESD95 Electronic T5, 0.95 Ballast Factor, Step Dimming, Programmed Start (N/A T5HO, 1-Lamp) EP115 Electronic T5, 1.15 Ballast Factor, Programmed Start (N/A T5HO, 1-Lamp) ESD115 Electronic T5, 1.15 Ballast Factor, Step Dimming, Programmed Start (N/A T5HO) ESD80 Electronic T5HO, 0.80 Ballast Factor, Step Dimming, Programmed Start (2-Lamp 54W only) ETT Electronic Twin Tube, Instant Start EPTT Electronic Twin Tube, Programmed Start	F0730 30K 75CRI T8 Lamps Installed F0735 35K 75CRI T8 Lamps Installed F0741 41K 75CRI T8 Lamps Installed F0830 30K 82CRI T8 Lamps Installed F0835 35K 82CRI T8 Lamps Installed F0841 41K 82CRI T8 Lamps Installed F028830 30K 82CRI 28W T8 Lamps Installed ³ F028835 35K 82CRI 28W T8 Lamps Installed ³ F028841 41K 82CRI 28W T8 Lamps Installed ³ FOH830 30K High Lumen T8 Lamps Installed FOH835 35K High Lumen T8 Lamps Installed FOH841 41K High Lumen T8 Lamps Installed F5830 30K 85CRI T5 or T5HO Lamps Installed F5835 35K 85CRI T5 or T5HO Lamps Installed F5841 41K 85CRI T5 or T5HO Lamps Installed 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	
ACCESSORIES (ORDER SEPARATELY)		PRODUCT AVAILABILITY										
FK22 2' x 2' Single Flange Kit	FK24 2' x 4' Single Flange Kit	FKCR Flange Kit Row Adaptor	SIZE	NO. OF LAMPS IN CROSS SECTION	LAMP TYPE							
			2' x 2'	1	40TT							
				2	14, 17, 24, 40TT							
				3	14, 17, 24							
			2' x 4'	1	28, 32, 54							
				2	28, 32, 54							
				3	28, 32, 54							

Damp Label - standard

¹ Not compatible with T8 25, 28, or 30 watt energy savings lamps.

² Where available.

³ Not recommended for use with step or full dimming.

⁴ Not available with surface mount.

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