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Cleanroom TL Troffers - Tunable White

KURTZON SPECIFICATION GRADE LIGHTING ILLUMINATING YOUR WORLD

1x4, 2x2 and 2x4 High Efficiency LED Luminaires

- Rated IP65
- Suitable for ISO 3-9 Cleanspaces
- Suitable for 209E class 100-100,000 Cleanspaces
- ETL listed for Wet Locations
- One piece Inset Doorframe
- Robotically seam welded housing
- Tunable White 2700k 6500k CCT
- Available With DALI Or 0-10V Controls
- Recessed Housing suitable for Tbar Grid AND Hardlid Installations
- Made in the USA by a Family Owned US Corporation

























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ORDERING GUIDE

Series Installation Type Material Size Source CCT Control Voltage Options



Series	Installation Type		Material	Size	Source	ССТ	Control:	Voltage	Options
	R: Recessed		White 430 SS Hsg. &	1x4 : 1' x 4' Housing	1/LEDTW	827/865:	0-10v Analog Dimming	UNV	FF: Fuse & Holder (One Supplied Per Circuit)
	(Suitable for Flange &		Polished 304 SS Door		2/LEDTW	80 CRI; 2700k-6500k CCT	10V-CON: Continuous CCT 0-10v dimming		WHIP: Must Specify Length and Wire Qty
		4:	White AL Hsg. & Polished 304 SS Door						.125 FROST: 1/8" Frost Acrylic Lens
							10V-WD: Warm Dim 0- 10V dimming		EM10: 10W Integral LED EM (Specify Input Voltage)
		5:	White AL Hsg. & White AL Door	2x2: 2' x 2' Housing	2/LEDTW				EM20: 20W Remote LED EM (Specify Input Voltage)
				OR	3/LEDTW				WHT: White Finished Door & HSG
		7:	White AL Hsg. & White CRS Door	2x4: 2' x 4' Housing	4/LEDTW		DALI Digital Dimming	I I	LEX: .125" Prismatic Polycarbonate
							DAL-CON: Cont. CCT DALI		A19: .156" Prismatic P19 Pattern Clear Acrylic
							dimming		HIA: .140" High Impact P12 Pattern Clear Acrylic
		1:	White CRS Hsg. & White CRS Door	1x4 : 1' x 4' Housing	1/LEDTW				TG: .156" Prismatic Tempered Glass
					2/LEDTW				SW: Wet Locatoin Hub Supplied (not installed)
		2:	White CRS Hsg. & Polished 304 SS Door						PxL: Programmed to User Specified Lumen Value.װ
									PxW : Programmed to User Specified Wattage Value.װ
		3:	White 430 SS Hsg. & Polished 304 SS Door	2x2: 2' x 2' Housing	2/LEDTW				10KV: 10KV Parallel Surge Protection (One Supplied Per Circuit)
				OR	3/LEDTW				OCCMW: Internal microwave OCC Sensor
		4:	White AL Hsg. & Polished 304 SS Door	2x4: 2' x 4' Housing	4/LEDTW				
		5:	White AL Hsg. & White AL Door						
		6:	White CRS Hsg. & White AL Door						
		7:	White AL Hsg. & White CRS Door						



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SPECIFICATIONS

HOUSING: One piece, hole free, robotically seam welded housing has flattened knockouts for a superior seal. Recessed housings are available in .040" 3003 Aluminum or 20Ga 430 Stainless Steel, Surface housings are available in .040" 3003 Aluminum, 20Ga 304 Stainless Steel, or 20Ga 1008 Cold Rolled Steel.

DOOR FRAME: One piece inset door frame with seam welds regressing into housing to allowing the NSF approved microcellular gasket to seal to the housing. Door frame is hinged by aircraft cables and secures to housing with captive stainless steel pan head screws. Available in .040" 3003 Powder coated Alum., 20Ga 304 Polished SS, or 18Ga 1008 Powder coated CRS.

GASKETS: NSF Listed closed cell microcellular extruded KleanLock SealPro gasket with vulcanized corners making a one-piece oil and solvent resistant gasket system.

LENS: Impact resistant .135" thick virgin acrylic with P12 prismatic pattern inverted. Sealed to door with NSF listed RTV silicone. See "Options" for other choices.

LEDS: Commercially available minimum 80 CRI 2 channel LED modules use 2700K and 6500K chips to mix color in order to achieve a desired color temperature. Modules have rated lifetime of L70 > 50,000 hrs and efficacy of 165Lm/W . See LED options to specify a custom range of Color temperatures. Consult factory for lumen output configurations not listed on spec sheets.

DRIVERS: Dual Channel Programmable Drivers make color tuning simple. Available in 0-10v Analog Dimming or DALI digital dimming. The 0-10v continuous dimming method uses two sets of dimming wires. 1 set of dimming wires controls the luminous flux while maintaining consistent color and the other set controls the color in a linear dimming curve. 0-10v is also available as warm dimming that uses 1 set of dimming wires that adjust both intensity and color simultaneously. Alternately control is available with DALI Digital Dimming as well.

REFLECTOR: Die formed metal with high reflectance white polyester powder coat finish. Typical reflectivity 92%.

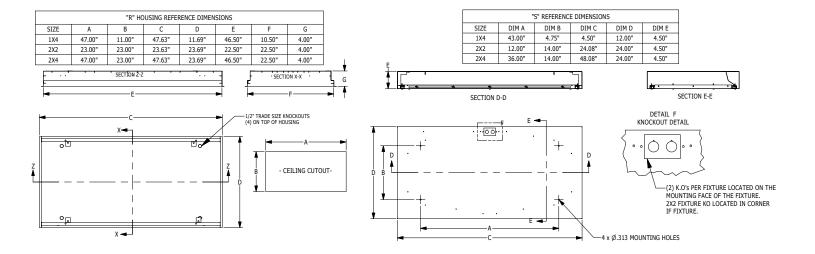
INSTALL RECESSED: One fixture suitable for Grid and Flanged installation. Accommodates 1" and 1.5" T-Bar Grid (Consult factory for 2" T-Bar Grid compatibility). Four adjustable toggle arms with holes for seismic support wire attachment. Supply entry via 1/2" trade size flattened knockouts.

INSTALL SURFACE: Four .312" dia. mounting holes and a removable gasketed wiring access plate with Supply entry via 1/2" trade size flattened knockouts.

FINISH: Gloss white high reflectance 1000 hr. salt spray polyester powder coat finish standard for all recessed housings. Stainless steel doorframes and surface housings are satin polished unless option WHT is chosen.

LISTINGS: IP65 rated for dust and water ingress. Suitable for 1700 PSI high pressure hosedowns. ETL listed per UL_1598 for wet locations. Chicago Plenum Rated. Certified ISO-14644-1 for class 3 through class 9 cleanspaces. Certified Fed Std 209E for Class 100 through Class 100,000 cleanspaces. NSF2 Listed for Non-Food Zones. Drivers and LEDs are covered by a 5 year warranty, the remaining fixture is covered by a 10 year warranty.

PRODUCT DRAWINGS





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ENERGY DATA

INSET-FGRS-LED TROFFER (APPROX¹ LUMENS DELIVERED)													
ENCLOSURE	LIGHT PACKAGE	Tunable White	80 CRI (4000K)	MAX AMB	CCT RANGE								
SIZE		LUMENS	WATTS ²	EFFICACY ³	TEMP								
1X4	1LEDTW	3,350	34	99	40°C (104°F)	2700k - 6500k							
1X4	2LEDTW	6,750	68	99	40°C (104°F)	2700k - 6500k							
1X4	EM10	990*	4	NA	40°C (104°F)	NA							
2X2	2LEDTW	3,550	35	101	40°C (104°F)	2700k - 6500k							
2X2	3LEDTW	5,300	53	100	40°C (104°F)	2700k - 6500k							
2X2	4LEDTW	7,100	68	104	40°C (104°F)	2700k - 6500k							
2X2	EM10	1000-1010*	4	NA	40°C (104°F)	NA							
2X4	2LEDTW	7,650	68	113	40°C (104°F)	2700k - 6500k							
2X4	3LEDTW	11,500	103	112	40°C (104°F)	2700k - 6500k							
2X4	4LEDTW	15,350	135	114	40°C (104°F)	2700k - 6500k							
2X4	EM10	1120-1140*	4	NA	40°C (104°F)	NA							

- 1 DELIVERED LUMEN DATA IS CALCULATED BASED ON STATIC WHITE PHOTOMETRY @ 4000K CCT
- 2 WATTAGE IS MEASURED WITH 4000K SELECTION @ 120vAC AND Tambient = 25C. WATTAGES MAY VARY WITH ALTERNATE CONFIGURATIONS
- 3 EFFICACY CALCULATED USING 4000K CCT DATA.
- 4 MAX AMBIENT TEMP RATING, NON-IC INSTALLATON. TEMP RATING MAY VARY WITH SPECIFIED DRIVERS OR ANY NON STANDARD SELECTION
- 5 90 MINUTE 10W EMERGENCY DRIVER; LUMENS CALCULATED BASED ON FIXTURE EFFICACY.
- 6 EM10 DELIVERED LUMENS = (DELIVERED LUMENS/LUMINAIRE WATTS)*10