

1x4, 2x2 and 2x4 Amber/White LED Surface Luminaires

KURTZON SPECIFICATION GRADE LIGHTING ILLUMINATING YOUR WORLD

- Rated IP66
- Suitable for ISO 3-9 Cleanspaces
- Suitable for 209E Class 1-100,000 Cleanspaces
- ETL listed for Wet Locations
- One piece overlapping doorframe
- Robotically seam welded housing
- 0-10v 1% Dimming Standard for most configurations.
- Narrow Spectrum 590nm True Amber LEDs
- White / Amber separately controlled circuits
- B.A.A. & B.A.B.A Compliant & Made in the USA by a Family Owned US Corporation
- Available as Warm Dim or as Separately controlled intensity and CCT
- Tunable white LEDs allow a full range of CCTS from 2700K 6500K CCT.











Row Qty.



Row Qty

Amber LED



White LED





CCT/CRI



Control



Voltage



Optics

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Options



OR	DERI	NG	GU	DE

			YLED590		LEDTW				
Series Material Siz		Light Source				0	Vallana	Optics	
Series Material	Size	Row Qty.	Amber LED	Row Qty.	White LED	CCT/CRI	Control	voitage	Optics
, White CRS Hsg. & White	1x4 1' x 4' Housing	1	YLED590	1	LEDTW	80 CRI:	0-10V Analog	120V	P12ACR 0.135" P12 Prismatic Impact Resistant Acrylic (Inverted)
CRS Door						827/ 865 2700K-6500K	Control	277V	LEX 0.125" P12 Prismatic Polycarbonate (Inverted)
White CDC Hear 9	3 LED HOWS Max	2		2			0-10V Warm	UNV	A19 0.156" A19 Prismatic Impact Resistant Acrylic (Inverted)
Polished 304 SS Door	2x2 2' x 2' Housing	2		1		90+ CRI:	Dim Control		TG 0.156" Prismatic Tempered Glass (Inverted)
Polished 304 SS Hsg. &	OR	3		2		927/965 2700K-6500K			HIA 0.140" P12 Prismatic High Impact Resistant Acrylic (Inverted)
Polished 304 SS Door		4		3					FROST 0.125" Flat Diffusing Frost Acrylic
White AL Hsg. & Polished 304 SS Door	ed 5 LED Rows Max								2DBW 0.125" Flat Diffused Acrylic with Bi-Directional Batwing Distribution
									LBW 0.125" Flat Diffused Acrylic with Linear Batwing Distribution
White AL Hsq. & White									GH85 0.125" Flat Diffused Acrylic with Glare Suppression Distribution
AL Door									NOTE: P12ACR option is standard and will be provided when no other option is selected
6 White CRS Hsg. & White AL Door									Options
	CRS Door White CRS Hsg. & Polished 304 SS Door Polished 304 SS Hsg. & Polished 304 SS Door White AL Hsg. & Polished 304 SS Door White AL Hsg. & White AL Door White AL Hsg. & White AL Door	1 White CRS Hsg. & White CRS Door 2 White CRS Hsg. & Polished 304 SS Door 2 2x2 2' x 2' Housing 3 LED Rows Max 2 White AL Hsg. & Polished 304 SS Door 2 2x4 2' x 4' Housing 4 White AL Hsg. & Polished 304 SS Door 5 White AL Hsg. & White AL Hsg. & White CRS Hsg. &	1 White CRS Hsg. & White CRS Door	Material Size Row Qty. Amber LED	Material Size Row Qty. Amber LED Row Qty.	Material Size Row Qty. Amber LED Row Qty. White LED	Material Size Row Qty. Amber LED Row Qty. White LED CCT/CRI	Material Size Row Qty. Amber LED Row Qty. White LED CCT/CRI	Material Size Row Qty. Amber LED Row Qty. White LED CCT/CRI Control Voltage

Ordering Notes, If Applicable

White AL Hsg. & White

CBS Door



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SPECIFICATIONS

HOUSING: One piece, hole free, robotically seam welded housing has flattened knockouts for a superior seal. Housings are available in .050" 3003 Aluminum, 18Ga 304 Stainless Steel, or 20Ga Cold Rolled Steel.

DOOR FRAME: One piece door frame with welded corners overlaps the fixture allowing the NSF approved microcellular gasket to seal to the housing. Door frame is hinged by aircraft cables and is supplied with captive stainless steel flush head screws to allow easy wiping of the surface. Available in .050" 3003 Powder coated Alum., 20Ga 304 Polished SS, or 18Ga 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.

OPTICS: Standard P12 prismatic acrylic lens is provided when no other options are selected. All prismatic lensing options come with an inverted lens so the smooth side faces the room for easy cleaning. All optics are sealed to the door with NSF listed RTV silicone sealant. Other optics are available, consult factory for more information or options not listed.

LEDS: Fixture available with Amber only or Amber & White LED's, each color will be supplied with its own driver for dual switching. Amber LED's provide a narrow 590nm spectrum for wavelength sensitive applications. White high efficiency LEDs are commercially available minimum 80 or 90 CRI 2 channel LED modules and 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. LEDs are controllable via 0-10v dimming, see next page for control options. Consult factory for lumen output configurations not listed on spec sheets.. All boards have Zhaga recognized hole patterns and come with a 5 year warranty.

DRIVERS: Standard Universal Voltage Class 2 drivers are 0-10v Dimmable to 1%, and rated -20C (-4F). They come with at least 2.5Kv surge protection, have less than 10% THD at max load, Ballast Factor Greater than .95 and are programmable to match specific lumen or wattage requirements. Drivers with higher input voltage ratings are available, consult factory for driver specifications. (each color LED comes standard with its own driver)

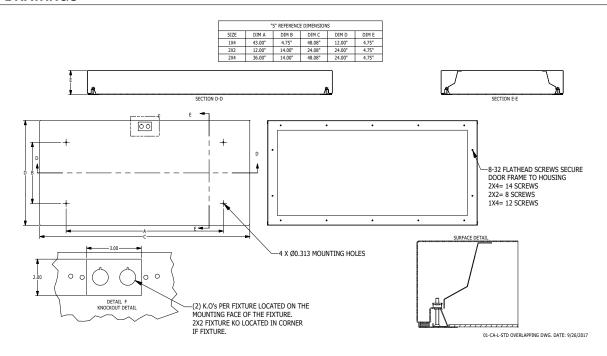
REFLECTOR: Die formed metal with high reflectance white polyester powder coat finish. Typical reflectivity 92%.

INSTALLATION: Four .312" dia.mounting holes and a removable gasketed wiring access plate with Supply entry via 1/2" trade size flattened knockouts. Suitable for surface installation onto covered ceilings only.

FINISH: Stainless steel door frames & housings are satin polished unless WHT or AMW options are selected. All other materials are provided with gloss high reflectance white polyester powder coat with 1000hr salt spray test per ASTM B117. AMW option provides a white anti-microbial polyester powder coat to all exposed surfaces.

LISTINGS: IP66 rated for dust and water ingress. Suitable for 1700 PSI high pressure hosedowns. ETL listed per UL_1598 for wet locations. Certified ISO-14644-1 for class 3 through class 9 cleanspaces. Certified Fed Std 209E for Class 1 through Class 100,000 cleanspaces. NSF2 Listed for non-food & splash zones. Drivers and LEDs are covered by a 5 year warranty, the remaining fixture is covered by a 10 year warranty. This product Series is both Build America Buy America (B.A.B.A.) & Buy American Act (B.A.A.) compliant.

PRODUCT DRAWINGS





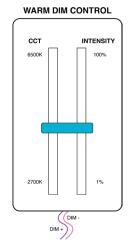
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ENERGY DATA - WHITE LED

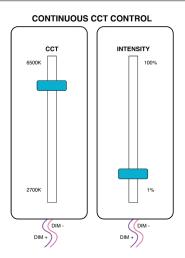
OVERLAP-FGRS-AMBER LED TROFFER								
ENCLOSURE LED		Tunab	le White 80 CRI	(4000K)	MAX AMBIENT	CCT RANGE		
SIZE	SIZE SELECTION	LUMENS	WATTS	EFFICACY	TEMP ³	CCTIVATOL		
1x4	1LEDTW	3,450	34	101	40°C (104°F)	2700k - 6500k		
1X4	2LEDTW	7,050	68	104	40°C (104°F)	2700k - 6500k		
2x2	1LEDTW	1,000	18	106	40°C (104°F)	2700k - 6500k		
ZXZ	ILEDIW	1,900	10	100	40 C (104 F)	2700K - 0300K		
2x2	2LEDTW	3,750	35	107	40°C (104°F)	2700k - 6500k		
2x2	3LEDTW	5,650	53	107	40°C (104°F)	2700k - 6500k		
2x2	4LEDTW	7,550	68	111	40°C (104°F)	2700k - 6500k		
			I		,			
2X4	1LEDTW	3,900	34	115	40°C (104°F)	2700k - 6500k		
2X4	2LEDTW	7,800	68	115	40°C (104°F)	2700k - 6500k		
2X4	3LEDTW	11,700	103	114	40°C (104°F)	2700k - 6500k		
2X4	4LEDTW	15,600	135	116	40°C (104°F)	2700k - 6500k		

- 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

CONTROL OPTIONS



Only one set of dimming Leads are required. As Intensity is Increased so is the CCT. As intensity decreases the CCT decreases to warmer color Temperatures.



Two set of dimming leads are required. Intensity and CCT of light are controlled independently from one another.



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ENERGY DATA - COLOR LED

OVERLAP-FGRS-AMBER LED TROFFER								
ENCLOSURE	LED		5	90nm (Ambe	er)	MAX AMBIENT		
SIZE	SELECTION		LUMENS	WATTS	EFFICACY	TEMP ³		
1X4	1YLED		1,972	43	46	40°C (104°F)		
1X4	2YLED		3,945	86	46	40°C (104°F)		
2X2	1YLED		1,132	22	51	40°C (104°F)		
2X2	2YLED		2,264	43	53	40°C (104°F)		
2X2	3YLED		3,396	65	52	40°C (104°F)		
2X2	4YLED		4,528	86	53	40°C (104°F)		
2X4	1YLED		2,428	44	55	40°C (104°F)		
2X4	2YLED		4,856	87	56	40°C (104°F)		
2X4	3YLED		7,283	130	56	40°C (104°F)		
2X4	4YLED		9,711	173	56	40°C (104°F)		

^{*} View previous page for energy data notes.

COLOR LED RELATIVE DISTRIBUTION

