KURTZON
SPECIFICATION GRADE LIGHTING
ILLUMINATING YOUR WORLD

PROJECT

DATE

TYPE

NOTES

REV: 02/19/2025

Wet Location **Troffers: WL-S-LED-TW**

High Efficiency LED Surface Luminaires for Wet Locations

- **Rated IP55**

- **ETL Listed for Wet Locations**

- **0-10V 1% Dimming come standard**

- **Channel Inset Door Frame**

- **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.**

2700K **TW** 6500K

ORDERING GUIDE

Series	Material	Size	Row Qty.	LED Type	CCT/CRI	Control	Voltage	Optics	Options
WL-S				**LEDTW**					

Series	Material	Size	Light Source			Control	Voltage	Optics	Options
			Row Qty.	LED Type	CCT/CRI				
WL-S	**2** White CRS Hsg. & Polished 304 SS Door	**1x4** 1' x 4' Housing	1	LEDTW	**80 CRI:**	**10VA** 0-10V Analog Control	**120V**	**P12ACR** 0.135" P12 Prismatic Impact Resistant Acrylic (Inverted)	**SW** Wet Location Hub Supplied (not installed)
			2		**827/ 865** 2700K-6500K		**277V**	**LEX** 0.125" P12 Prismatic Polycarbonate (Inverted)	**PxL** * Programmed to User Specified Lumen Value.
	3 White 430 SS Hsg. & Polished 304 SS Door	**2x2** 2' x 2' Housing	2		**90 CRI:**	**10VWD** 0-10V Warm Dim Control	**UNV**	**A19** 0.156" A19 Prismatic Impact Resistant Acrylic (Inverted)	**PxW** * Programmed to User Specified Wattage Value.
	4 White AL Hsg. & Polished 304 SS Door	**OR**	3		**927/ 965** 2700K-6500K			**TG** 0.156" Prismatic Tempered Glass (Inverted)	**10KV** 10KV Parallel Surge Protection (One Supplied Per Circuit)
		2x4 2' x 4' Housing	4					**HIA** 0.140" P12 Prismatic High Impact Resistant Acrylic (Inverted)	**GTD** Generator Transfer Device
	5 White AL Hsg. & White AL Door							**FROST** 0.125" Flat Diffusing Frost Acrylic	**WHIP** Must Specify Length and Wire Qty
								2DBW 0.125" Flat Diffused Acrylic with Bi-Directional Batwing Distribution	**OCCMW** Internal Microwave OCC Sensor
	6 White CRS Hsg. & White AL Door							**LBW** 0.125" Flat Diffused Acrylic with Linear Batwing Distribution	**FC** Fuse & Holder (One Supplied Per Circuit)
								GH85 0.125" Flat Diffused Acrylic with Glare Suppression Distribution	**EM10** ** 10W Integral LED EM (Specify Input Voltage)
									EM20 20W Remote LED EM (Specify Input Voltage)
								NOTE: P12ACR option is standard and will be provided when no other option is selected	**EDL** -40F Electronic Driver
									WHT White Finished Door & HSG
									AMW Anti-Microbrial White Powdercoat
									2/ED Two Drivers/Two Circuits
									Note*: Specify Value in Ordering Notes Below

Ordering Notes, If Applicable

Wet Location **Troffers: WL-S-LED-TW**

High Efficiency LED Surface Luminaires for Wet Locations

SPECIFICATIONS

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

DOOR FRAME: Inset door frame made from welded channels regresses into the housing to allow the neoprene 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.

GASKETS: Closed cell 100% pure neoprene 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. Other optics are available, consult factory for more information or options not listed.

LEDS: Commercially available minimum 80 or 90 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 . LEDs are controllable via 0-10v dimming, see next page for control options. Consult factory for lumen output configurations not listed on spec sheets.

DRIVERS: Standard Universal Voltage Class 2 drivers are 0-10v Dimmable to 1% for most LED configurations. 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.
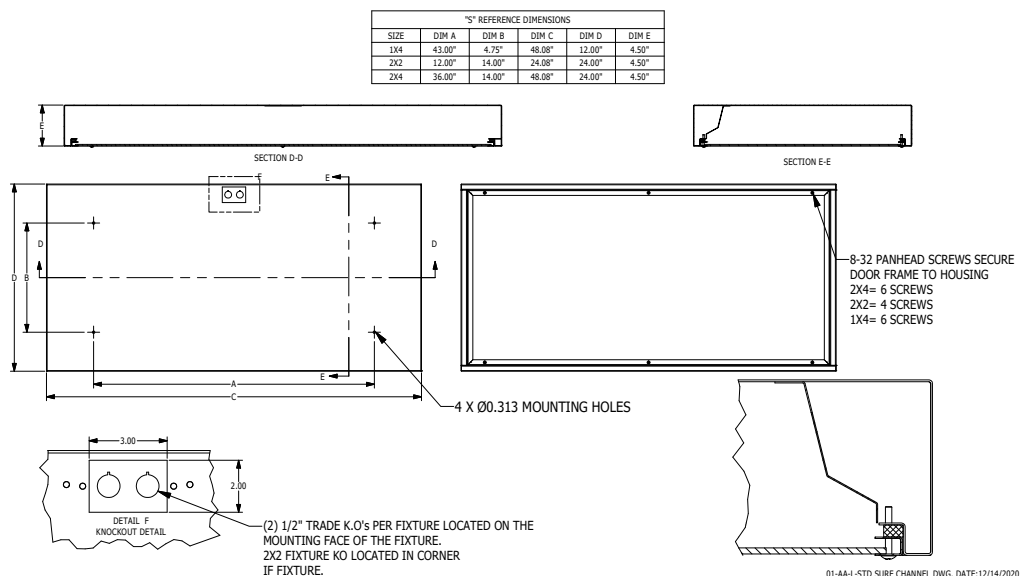
REFLECTOR: Die formed metal with high reflectance white polyester powder coat finish. Typical reflectivity 92%.

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 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: IP55 rated for dust and water ingress. ETL listed per UL_1598 for wet locations. 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

"S" REFERENCE DIMENSIONS					
SIZE	DIM A	DIM B	DIM C	DIM D	DIM E
1X4	43.00"	4.75"	48.08"	12.00"	4.50"
2X2	12.00"	14.00"	24.08"	24.00"	4.50"
2X4	36.00"	14.00"	48.08"	24.00"	4.50"

SECTION D-D

SECTION E-E

8-32 PANHEAD SCREWS SECURE DOOR FRAME TO HOUSING
2X4= 6 SCREWS
2X2= 4 SCREWS
1X4= 6 SCREWS

4 X Ø0.313 MOUNTING HOLES

3.00

2.00

DETAIL F
KNOCKOUT DETAIL

(2) 1/2" TRADE K.O's PER FIXTURE LOCATED ON THE MOUNTING FACE OF THE FIXTURE.
2X2 FIXTURE KO LOCATED IN CORNER IF FIXTURE.

01-AA-L-STD SURF CHANNEL DWG. DATE:12/14/2020

Wet Location **Troffers: WL-S-LED-TW**

High Efficiency LED Surface Luminaires for Wet Locations

ENERGY DATA

CHANNEL-FGRS-LED TROFFER (APPROX[1] LUMENS DELIVERED)						
ENCLOSURE SIZE	LIGHT PACKAGE	Tunable White 80 CRI (4000K)			MAX AMB TEMP	CCT RANGE
		LUMENS	WATTS[2]	EFFICACY[3]		
1X4	1LEDTW	3,950	34	116	40°C (104°F)	2700k - 6500k
1X4	2LEDTW	7,550	68	111	40°C (104°F)	2700k - 6500k
1X4	EM10	1100-1160	4	NA	40°C (104°F)	NA
2X2	2LEDTW	3,950	35	113	40°C (104°F)	2700k - 6500k
2X2	3LEDTW	5,900	53	111	40°C (104°F)	2700k - 6500k
2X2	4LEDTW	7,800	68	115	40°C (104°F)	2700k - 6500k
2X2	EM10	1100-1130	4	NA	40°C (104°F)	NA
2X4	2LEDTW	8,150	68	120	40°C (104°F)	2700k - 6500k
2X4	3LEDTW	12,200	103	118	40°C (104°F)	2700k - 6500k
2X4	4LEDTW	15,950	135	118	40°C (104°F)	2700k - 6500k
2X4	EM10	1180-1200	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.
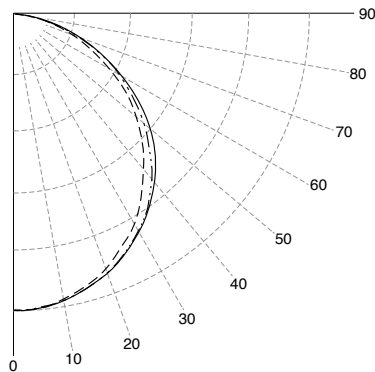
6   EM10 DELIVERED LUMENS = (DELIVERED LUMENS/LUMINAIRE WATTS)*10
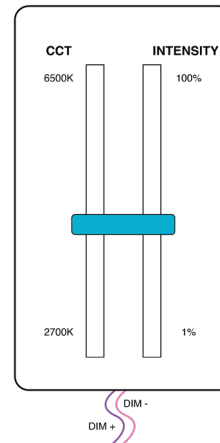
PHOTOMETRICS

P12 PRISMATIC

Key:

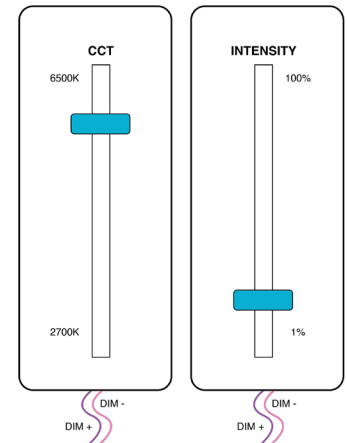- - - - - -   **0**
-·-·-·-·-   **45**
————   **90**

CONTROL OPTIONS

WARM DIM CONTROL

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.

CONTINUOUS CCT CONTROL

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