KURTZON
SPECIFICATION GRADE LIGHTING
ILLUMINATING YOUR WORLD

Indoor Sports **Troffers: IS-S-LED**

1x4, 2x2 and 2x4 High Durability LED Luminaires Sources

- **For handball, squash, racketball, and other indoor sports applications**
- **Optional "GDF" frame provides door with integral grill**
- **Polycarbonate lensing standard**
- **IP65 Rated**
- **Combined lensing up to 3/8" thickness**
- **B.A.A. & B.A.B.A Compliant & Made in the USA by a Family Owned US Corporation**

ORDERING GUIDE

Series	Material	Size	Light Source	CCT/CRI	Voltage	Optics LED Side / Room Side	Options
IS-S							

Series	Material	Size	Light Source	CCT/CRI	Voltage	Optics**	Options
IS-S	**1** White CRS Hsg. & White CRS Door	**1x4** 1' x 4' Housing	**1/LEDR**	**83 CRI:**	**120V**	**Prismatic***	**SW** Wet Location Hub Supplied (not installed)
			2/LEDR	**830** 3000K	**277V**	**1** .125" P12 Polycarbonate	**PxL** * Programmed to User Specified Lumen Value.
	2 White CRS Hsg. & Polished 304 SS Door		**2/LEDH**	**835** 3500K	**UNV**	**2** .140" P12 High Impact Acrylic	**PxW** * Programmed to User Specified Wattage Value.
			2/LEDHF	**840** 4000K	**347V***	**3** .156" P12 Polycarbonate	**10KV** 10KV Parallel Surge Protection (One Supplied Per Circuit)
	3 Poshled 430 SS Hsg. & Polished 304 SS Door	**2x2** 2' x 2' Housing	**2/LEDR**	**850** 5000K		**4** .156" P73 Tempered Glass	**GTD** Generator Transfer Device
		2x4 2' x 4' Housing	**2/LEDH**				**WHIP** Must Specify Length and Wire Qty
	4 White AL Hsg. & Polished 304 SS Door		**3/LEDR**	**90+ CRI:**	*347V Available with 10% dimming, not all options are compatible with 347V	**Non-Prismatic**	**OCCMW** Internal microwave OCC Sensor
			3/LEDH	**935** 3500K		**5** .125" Clear Flat Polycarbonate	**FC** Fuse & Holder (One Supplied Per Circuit)
	5 White AL Hsg. & White AL Door		**4/LEDR**	**940** 4000K		**6** .187" Clear Flat Polycarbonate	**EM10**** 10W Integral LED EM (Specify Input Voltage)
			4/LEDH			**7** .250" Clear Flat Polycarbonate	**EM20** 20W Remote LED EM (Specify Input Voltage)
	6 White CRS Hsg. & White AL Door		**4/LEDHF**				**EDL** -40F Electronic Driver
				NOTE: Additionally available in 95 + CRI with Seoul Sun-Like LEDS. Consult factory for more information.		*Select up to 1 layer of prismatic lensing **Combine lensing up to .375" total thickness	**WHT** White Finished Door & HSG
	7 White AL Hsg. & White CRS Door						**AMW** Anti-Microbrial White Powdercoat
							2/ED Two Drivers/Two Circuits
							GDF CRS door frame with integral grill (2x2 OR 2x4 only)

*Note: Specify Value in Ordering Notes Below
**Note: EM10 remote mount for 2x4 4/LEDHF selections.

Ordering Notes, If Applicable

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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 .040" 3003 Aluminum, 20Ga 430 Stainless Steel, or 20Ga Cold Rolled Steel.

DOOR FRAME: One piece inset door frame with seam welds regressing flush into the housing while creating a seal. 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. Optional CRS door frame with an integral grill available for 2x2 or 2x4 housings

GASKETS: Closed cell 100% pure neoprene gasket with vulcanized corners making a one-piece oil and solvent resistant gasket system.

OPTICS: Select up to 2 layers of lensing up to a combined thickness of .375". Available in flat or prismatic polycarbonate, tempered glass, or high impact acrylic. All optics are sealed to the door with NSF listed RTV Silicone Sealant. Other optics available, consult factory for more information or options not listed.

LEDS: Commercially available in a wide variety of Color Temperature (CCT), FLUX, and CRI. Highly efficient and consistent color maintained to 3 SDMC for color critical applications. B50/L70 and compliant with Zhaga recognized hole patterns. Consult factory for LED options or configurations not listed below.

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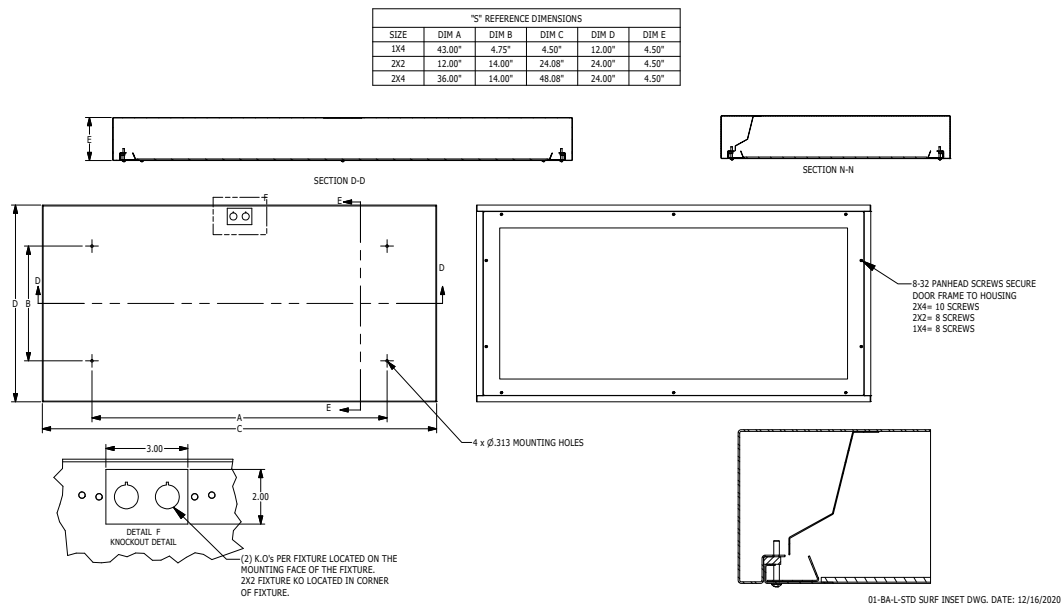
REFLECTOR: Die formed metal with high reflectance white polyester powder coat finish. Typical reflectivity 92%.

INSTALLATION: Four .312" dia. mounting holes and a removable gasketed wiring access plate with Supply entry via 1/2" trade size flattened knockouts. Optional mounting brackets available for pendant mounting. 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 powdercoat with 1000hr salt spray test per ASTM B117. AMW option provides a white anti-microbial polyester powder coat to all exposed surfaces.

LISTINGS: IP65 rated for dust and water ingress. Suitable for 1700 PSI high pressure hosedowns. 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"	4.50"	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 N-N

8-32 PANHEAD SCREWS SECURE DOOR FRAME TO HOUSING
2X4= 10 SCREWS
2X2= 8 SCREWS
1X4= 8 SCREWS

4 x Ø.313 MOUNTING HOLES

3.00

2.00

DETAIL F
KNOCKOUT DETAIL

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

01-BA-L-STD SURF INSET DWG. DATE: 12/16/2020

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ENERGY DATA

ENCLOSURE SIZE	LIGHT PACKAGE	80 CRI (3000K - 5000K)				90 CRI (3500K, 4000K)				STANDARD DIMMING
		LUMENS	WATTS[2]	EFFICACY[3]	MAX AMB TEMP	LUMENS	WATTS[2]	EFFICACY[3]	MAX AMB TEMP[4]	
1X4	1LEDR	2,731	29	94	45°C (113°F)	2,632	29	91	45°C (113°F)	0-10V 1%
1X4	2LEDR	5,460	55	99	45°C (113°F)	5,263	56	94	45°C (113°F)	0-10V 1%
1X4	2LEDH	10,579	109	97	35°C (95°F)	10,103	109	93	35°C (95°F)	0-10V 1%
1X4	2LEDHF	15,611	153	102	35°C (95°F)	13,009	183	71	35°C (95°F)	0-10V 1%
1X4	EM10	940-1020	4	NA	40°C (104°F)	710-940	4	NA	40°C (104°F)	NA
2X2	2LEDR	2,717	29	94	45°C (113°F)	2,622	29	90	45°C (113°F)	0-10V 1%
2X2	3LEDR	4,076	42	97	45°C (113°F)	3,932	42	94	45°C (113°F)	0-10V 1%
2X2	2LEDH	5,346	55	97	40°C (104°F)	5,097	55	93	40°C (104°F)	0-10V 1%
2X2	4LEDR	5,435	55	99	45°C (113°F)	5,243	56	94	45°C (113°F)	0-10V 1%
2X2	3LEDH	8,020	80	100	40°C (104°F)	7,648	81	95	35°C (95°F)	0-10V 1%
2X2	4LEDH	10,693	109	98	40°C (104°F)	10,194	109	94	35°C (95°F)	0-10V 1%
2X2	4LEDHF	16,244	153	106	35°C (95°F)	13437	184	73	35°C (95°F)	0-10V 1%
2X2	EM10	940-1060	4	NA	40°C (104°F)	730-950	4	NA	40°C (104°F)	NA
2X4	2LEDR	5,912	55	107	45°C (113°F)	5,657	56	101	45°C (113°F)	0-10V 1%
2X4	3LEDR	8,868	83	107	45°C (113°F)	8,485	83	102	45°C (113°F)	0-10V 1%
2X4	2LEDH	11,670	109	107	40°C (104°F)	11,089	109	102	40°C (104°F)	0-10V 1%
2X4	4LEDR	11,824	111	107	45°C (113°F)	11,313	113	100	45°C (113°F)	0-10V 1%
2X4	3LEDH	17,505	164	107	40°C (104°F)	16,634	164	101	40°C (104°F)	0-10V 1%
2X4	4LEDH	23,339	220	106	40°C (104°F)	22,178	220	101	40°C (104°F)	0-10V 1%
2X4	4LEDHF	35,851	305	118	35°C (95°F)	31,103	373	83	35°C (95°F)	0-10V 1%
2X4	EM10	1060-1180	4	NA	40°C (104°F)	830-1020	4	NA	40°C (104°F)	NA

POLY INSET-FGRS-LED TROFFER (APPROX[1] LUMENS DELIVERED)

[1] DELIVERED LUMEN DATA IS EXTRAPOLATED FROM MEASURED DATA @25C WITH NO EXTRA OPTIONS. VARIANCES WILL OCCUR WHEN OPTIONS ARE CHOSEN

[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.

PHOTOMETRICS

P12 PRISMATIC OPTICS

Key:
- — — — **0**
- · · — · · — · · **45**
- ———— **90**