

UBIK SEAL TROFFER

LUMENWERX

RECESSED
STATIC WHITE, FULL SPECTRUM



Project: _____
Type: _____



DESCRIPTION

Sleek square form meets superb function in Ubik, a lighting family designed to provide a multitude of creative options. Ubik Seal Troffer creates visual comfort with its low-glare dual optical chamber performance. The center channel features parabolic louvers, available in matte white or matte silver, that deliver a soft conical distribution. Side lenses provide indirect, reflected, soft diffused distribution using Tri-Flect technology. The fixture offers 60/40 and 40/60 light distribution options and meets the WELL Building Standard™ guidelines for UGR values. Ubik Seal Troffer comes in static white and full spectrum. For Chromawerx Sola and Duo solutions, consult other spec sheet.

SENSORS
For latest
information
on sensors,
click [here](#).



IC RATED IP54

Order Guide

Up to 117 lm/W performance

LUMINAIRE ID	SIZE	CENTER OPTIC	SIDE OPTIC	LIGHT SOURCE ²	CRI	LUMEN PACKAGE (lm)				
UBISEALT	22		TFO							
UBISEALT ¹ - Ubik Seal Troffer ¹ IP44 rated gasketed frame construction with an additional clear polycarbonate lens for the center optic.	22 - 2' X 2'	MWPL - Matte White Parabolic Louver MSPL - Matte Silver Parabolic Louver	TFO - Tri-Flect Optic	SW - Static white FS - Full spectrum ² Chromawerx Sola and Duo also available. Consult other spec sheet.	80 ³ - 80 CRI 90 ³ - 90 CRI 95 ⁴ - 95 CRI ³ Not available with full spectrum. ⁴ Only available with full spectrum.					
						2' X 2'	2000	3000	4000	4500 ⁶
						⁵ Not available with full spectrum. ⁶ Not available with 90 CRI.				

LIGHT DISTRIBUTION	COLOR TEMP.	VOLTAGE	DRIVER ⁸	ELECTRICAL
40/60 - 40%PL - 60% TFO 60/40 - 60% PL - 40% TFO	27 - 2700K 30 - 3000K 35 - 3500K 40 - 4000K	120 - 120V 277 - 277V UNV - 120V-277V 347⁷ - 347V ⁷ Available with D1 only.	D1 - 1% 0-10V DA⁹ - DALI LTEA2W¹⁰ - Lutron 1% - 2 wire FP 120V LDE1⁹ - Lutron Hi-lume 1% Eco ELD1 - eldoLED 1% ECOdrive 0-10V ELDO - eldoLED 0.1% SOLOdrive 0-10V ⁸ PoE (Power-over-Ethernet) compatible. Consult factory for details. ⁹ On-site commissioning is required. ¹⁰ Available with 120V only.	1C - 1 circuit 2C¹¹ - 2 circuits EC - Emergency fixture GTDT¹² - Generator transfer device fixture ¹¹ Separate circuits for parabolic louver and TFO. ¹² Not available with 347V.

EMERGENCY BATTERY	MOUNTING	FINISH	OPTIONS
EMB^{13,14,15} - Emergency battery NA - None ¹³ The battery is integral and connected to the parabolic louver. ¹⁴ Specify with 1 circuit (1C) or 2 circuit (2C) electrical option only. ¹⁵ Not available with 347V.	GRD - Grid ceiling DF - Drywall trim kit	W - Matte white WA - White antimicrobial Silverwerx CF# - Custom finish, specify RAL#	FUI20 - Fuse 120V FU277 - Fuse 277V CP - Chicago Plenum GKG - Grid gasket GSO¹⁶ - Gasketed side optic NATA - Natatorium finish CRF - Corrosion resistant finish NA - None ¹⁶ IP54 rated gasketed frame construction with additional gaskets for the side optic, and a clear polycarbonate lens for the center optic.

UBIK SEAL TROFFER

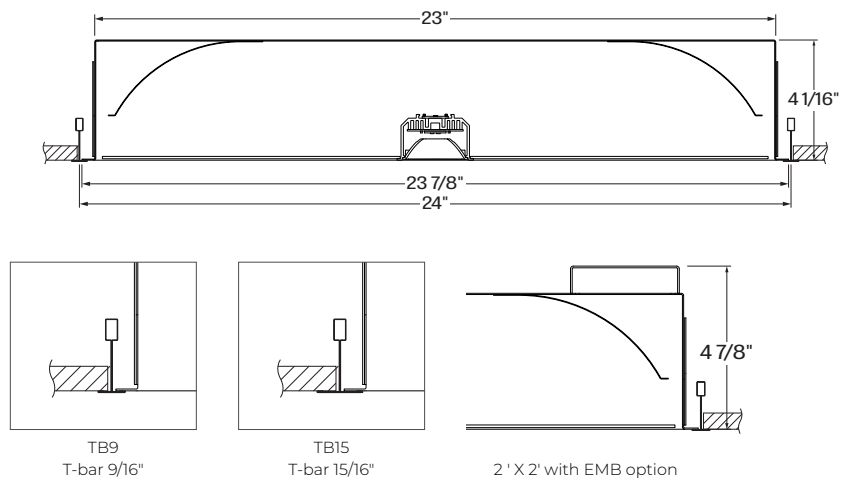
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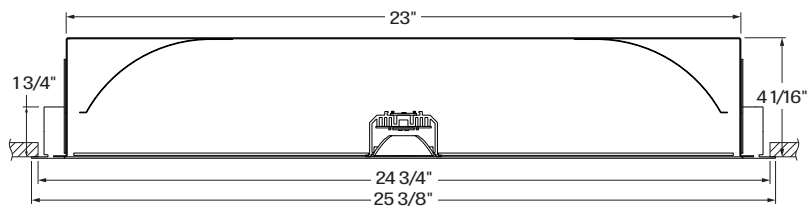
STATIC WHITE, FULL SPECTRUM

Dimensions

GRID



DRYWALL



UBIK SEAL TROFFER

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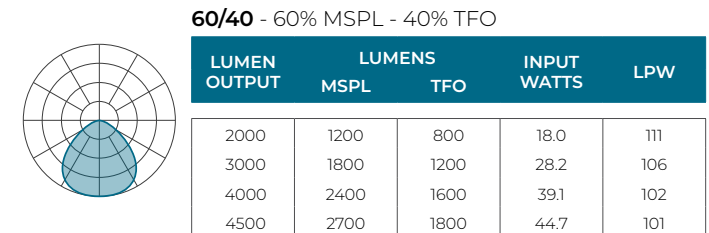
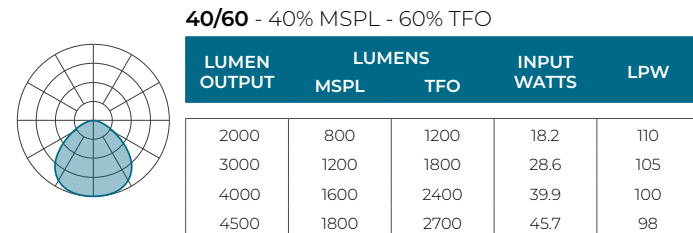
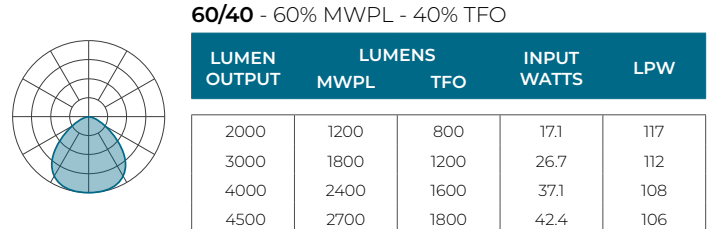
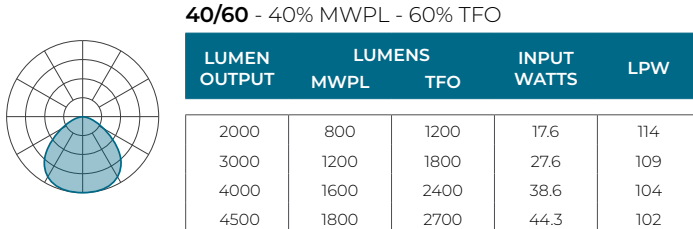
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Photometrics

2' X 2'

Delivered lumens at 35K at 80 CRI.



MULTIPLIER TABLES

Use these tables to get results for different color temperatures and CRI for all sizes.

Multiplier - CCT/CRI - 40/60

CCT (K)	WATTS		LPW	
	CRI 80	CRI 90	CRI 80	CRI 90
2700	1.05	1.27	0.95	0.78
3000	1.02	1.23	0.98	0.81
3500	1.00	1.20	1.00	0.84
4000	0.99	1.18	1.01	0.85

Multiplier - CCT/CRI - 60/40

CCT (K)	WATTS		LPW	
	CRI 80	CRI 90	CRI 80	CRI 90
2700	1.05	1.23	0.95	0.81
3000	1.01	1.19	0.99	0.84
3500	1.00	1.16	1.00	0.87
4000	0.99	1.14	1.01	0.88

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Technical Specifications

OPTICS

Tri-Flect Optic (TFO)

Tri-Flect Optic (TFO) is the technology used in the Ubik Troffer where indirect light is sent off internal reflectors and then diffused through the dual side lenses to create visual comfort with low-glare.

Parabolic Louvers

Parabolic louvers emit soft brightness at the critical viewing angle delivering low-glare environments. They are the ideal solution for task lighting. UGR can change slightly based on the color of the louvers. Two matte finishes are available in white and silver. Parabolic louvers feature a low-glare conical distribution, thereby limiting ceiling brightness.



LIGHT SOURCE - STATIC WHITE

Custom array of mid-flux LEDs are mounted directly to the housing for optimal thermal performance. Available in 2700K, 3000K, 3500K, and 4000K with a minimum 80 CRI and an option for 90 CRI with elevated R9 value. Color consistency maintained to within 3 SDCM. LEDs operate at reduced drive current to optimize efficacy and lumen maintenance.

All LEDs have been tested in accordance with IESNA LM-80-08 and the results have shown L80 lumen maintenance greater than 60,000 hours. Absolute product photometry is measured and presented in accordance with IESNA LM-79, unless otherwise indicated.

LIGHT SOURCE - FULL SPECTRUM

The full spectrum LED option offers improved color particularly in the cyan region that is beneficial in both healthcare and circadian lighting strategies. The cyan region in full spectrum LED is richer at the 480 nm range.



WELL for Light - The WELL building standard focuses on light quality in several features. There are three categories that are fully attributed to the construction and features of a luminaire. In WELL V1, it's Feature 54 Circadian Lighting, Feature 55 Glare Control, and Feature 58 Color Quality. In WELL V2, it's Feature L03 Circadian Lighting, Feature L04 Glare Control, and Feature L07 Electric Light Quality.

This fixture meets Features:

- Feature 54 or L03 when full spectrum is selected
- Feature 55 or L04 meets WELL glare category (b-c-d)
- Feature 58 or L07 when 90CRI is selected

All LED drivers used at Lumenwerx are deemed to have a low risk level of flicker, of 5 % or less below 90Hz operational as defined by IEEE standard 1789-2015 LED.



WELL for Mind - This luminaire meets WELL for mind as it is a human centric luminaire offering quality light, excellent color, and smooth optics. If any of these features are incorporated in a luminaire, it can improve the ability to focus, concentrate, and persist longer on a given task. This fixture harmoniously operates in a space to assist the mind.

For more information, please contact well@lumenwerx.com

ELECTRICAL

Factory-set, adjustable output current LED driver with universal (120-277VAC) input. Dimmable from 100% to 1% with 0-10V dimming control. Rated life (90% survivorship) of 50,000 hours at 50°C max. ambient (and 70°C max. case) temperature. At maximum driver load: Efficiency>84%, PF>0.9, THD<20%. Other specifiable options include Lutron Hi-Lume 1% (specify 2-wire, or Ecosystem Dim-to-Off), eldoLED 1% ECOdrive 0-10V, eldoLED 0.1% SOLOdrive 0-10V, and DALI protocol drivers. All of our standard 0-10V drivers are NEMA 410 compliant.

PoE

Depending on the PoE manufacturer selected, Lumenwerx will install the node in factory as either integral to the luminaire, or as a remote module. Factory programming of the PoE node may or may not enable the following functionalities: lumen package, Duo (tunable white), emergency battery backup, and sensor integration. These must be addressed and evaluated on a case-by-case basis.

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EMERGENCY BATTERY OPTION

Emergency battery option is available for 2' X 2' fixtures specified as 1 circuit (1C) or 2 circuits (2C) only. The battery is integral and connected to the parabolic louver. Please consult factory for custom configurations.

Battery

Factory installed long life, high temperature, maintenance-free Lithium-Ion battery pack with self-test functionality, test switch and charge indicator. Minimum of 90 minutes operation, up to 10W (25°C) emergency lighting output and recharge time of 24 hours.

MOUNTING OPTIONS

Recessed fixtures can be mounted into exposed T-bar ceiling, as well as in drywall ceilings with trim kit.

CONSTRUCTION

Housing - Die formed cold rolled sheet steel 20 gauge thick, matte white powder coating.

Reflectors - Cold rolled steel 0.030" thick precisely die formed, 95% reflective matte white painted.

Interior brackets - Die formed cold rolled sheet steel 20 gauge thick.

Center basket - Extruded aluminum 0.07" nominal, matte white and lens made in clear PMMA precisely formed into optical micro-structures forms.

Side lenses - Frost impact acrylic lens 88% transmissive.

Drywall kit - Extruded aluminum 0.07" nominal, matte white powder coating.

Gasket - Closed-cell silicone foam gasket

Grid gasket (GGK option) - 1/16" closed-cell silicone foam, assures a better seal between the fixture and the grid.

FINISH

Interior - 95%, reflective matte powder coated white paint

Exterior - Powder-coat paint in standard white. Optional antimicrobial finish, as well as custom finishes, also available.

WEIGHT

Ubik Seal Troffer 2' X 2' - 23.1 lbs - 10.5 kg

CERTIFICATIONS

ETL - Rated for Indoor Dry/Damp locations. Conforms to UL Standard 1598 and certified to CAN/CSA Standard C22.2 No. 250.0.

IC rated - Suitable for direct contact with insulation

Chicago Plenum - City of Chicago approved (CCEA)

WARRANTY

Lumenwerx provides a five-year limited warranty of electrical and mechanical performance of the luminaires, including the LED boards, drivers, and auxiliary electronics. Lumenwerx will repair or replace defective luminaires or components at our discretion, provided they have been installed and operated in accordance with our specifications. Other limitations apply, please refer to the full warranty on our website.