

UBIK SEAL TROFFER



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**

Up to 117 lm/W performance

Order Guide

LUMINAIRE ID	SIZE	CENTER OPTIC	SIDE OPTIC	LIGHT SOURCE ²	CRI	LUMEN PACKAGE
UBISEALT	2FTX2FT		TFO			
UBISEALT¹ - Ubik Seal Troffer ¹ IP44 rated gasketed frame construction with an additional clear polycarbonate lens for the center optic.	2FTX2FT - 2' x 2'	MWPL - Matte White Parabolic Louver MSPL - Matte Silver Parabolic Louver	TFO - Tri-Flect Optic	SW - Static white FS - Full spectrum static white ² Chromawerx SOLA and DUO also available. Consult other spec sheet.	80CRI³ - 80+ CRI 90CRI³ - 90+ CRI 95CRI⁴ - 95+ CRI ³ Not available with full spectrum. ⁴ Only available with full spectrum.	2000LM - Low output 2000 lm 3000LM⁵ - Medium output 3000 lm 4000LM⁵ - High output 4000 lm 4500LM^{5,6} - Ultra output 4500 lm ⁵ Not available with full spectrum. ⁶ Not available with 90+ CRI.

LIGHT DISTRIBUTION	COLOR TEMPERATURE	VOLTAGE	DRIVER ⁸	ELECTRICAL
40PL60TFO - 40%PL - 60% TFO 60PL40TFO - 60% PL - 40% TFO	27K - 2700K 30K - 3000K 35K - 3500K 40K - 4000K	120V - 120V 277V - 277V UNV - 120V-277V 347V⁷ - 347V ⁷ Available with D1 driver only.	D1 - 1% 0-10V DA⁹ - DALI 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 GTD¹² - Generator transfer device fixture ¹¹ Separate circuits for parabolic louver and TFO. ¹² Not available with 347V.

EMERGENCY BATTERY	MOUNTING	FINISH	OPTIONS ¹⁶
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#	FU120 - Fuse 120V FU277 - Fuse 277V CP - Chicago Plenum GKG - Grid gasket GSO¹⁷ - Gasketed side optic CRF - Corrosion resistant finish NA - None ¹⁶ Separate codes with a "+" if more than one is specified. ¹⁷ IP54 rated gasketed frame construction with additional gaskets for the side optic, and a clear polycarbonate lens for the center optic.

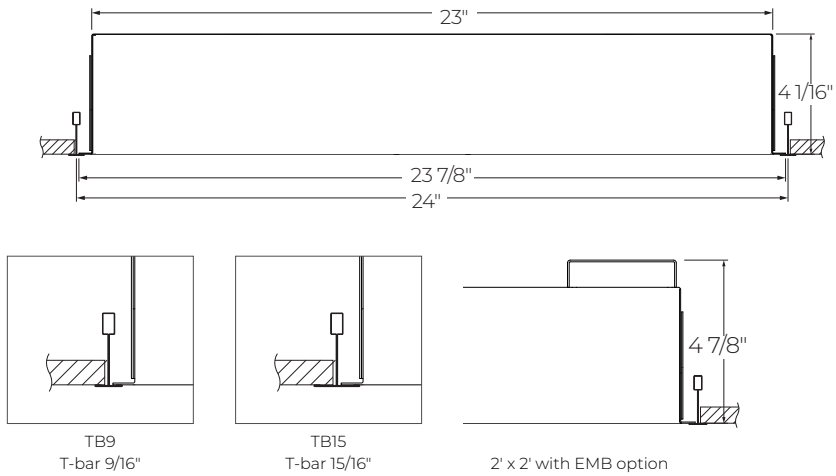
UBIK SEAL TROFFER



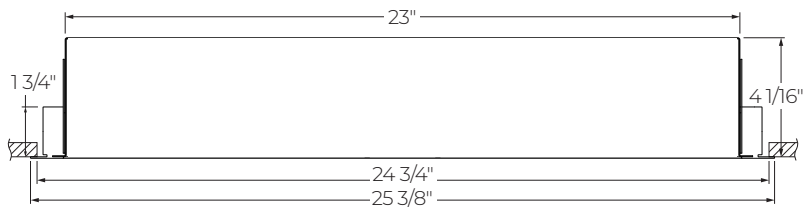
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Dimensions

GRID



DRYWALL



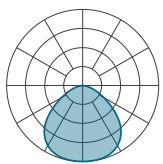
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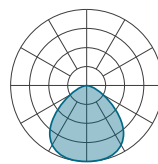
Photometrics

Values calculated based on 3500K and 80+ CRI.



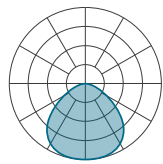
40PL60TFO - 40% MWPL - 60% TFO

LUMEN OUTPUT	LM		W	LM/W
	MWPL	TFO		
2000	800	1200	17.6	114
3000	1200	1800	27.6	109
4000	1600	2400	38.6	104
4500	1800	2700	44.3	102



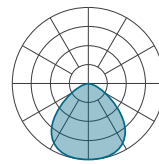
60PL40TFO - 60% MWPL - 40% TFO

LUMEN OUTPUT	LM		W	LM/W
	MWPL	TFO		
2000	1200	800	17.1	117
3000	1800	1200	26.7	112
4000	2400	1600	37.1	108
4500	2700	1800	42.4	106



40PL60TFO - 40% MSPL - 60% TFO

LUMEN OUTPUT	LM		W	LM/W
	MSPL	TFO		
2000	800	1200	18.2	110
3000	1200	1800	28.6	105
4000	1600	2400	39.9	100
4500	1800	2700	45.7	98



60PL40TFO - 60% MSPL - 40% TFO

LUMEN OUTPUT	LM		W	LM/W
	MSPL	TFO		
2000	1200	800	18.0	111
3000	1800	1200	28.2	106
4000	2400	1600	39.1	102
4500	2700	1800	44.7	101

MULTIPLIER TABLES

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

Multiplier - CCT/CRI - 40PL60TFO

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

Multiplier - CCT/CRI - 60PL/40TFO

CCT	WATTS		LPW	
	80+ CRI	90+ CRI	80+ CRI	90+ CRI
2700K	1.05	1.23	0.95	0.81
3000K	1.01	1.19	0.99	0.84
3500K	1.00	1.16	1.00	0.87
4000K	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.

Full spectrum static white

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 BUILDING STANDARD



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 90+ CRI 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 (120-277 VAC) 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% Eco, 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), QUADRO (RGBW), 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 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 10 W (25°C) emergency lighting output and recharge time of 24 hours.

MOUNTING

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 steel, matte white powder coating

Reflectors: Die-formed cold rolled steel, 95% reflective matte white painted.

Interior brackets: Die-formed cold rolled steel

Center basket: Extruded aluminum, 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, 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 matte white. Optional antimicrobial finish, as well as custom finishes, also available.

WEIGHT

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) when specified with CP option.

WARRANTY

Lumenwerx provides a five-year limited warranty on 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.