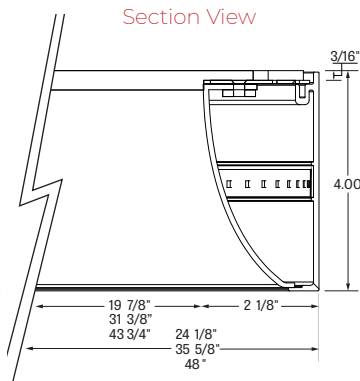


Project: _____

Type: _____



Togo Acoustix provides generous ambient illumination from a minimal and elegant ring form. Nestled in a crisp 4" high opaque band, the distinctive, annular diffuser glows inwardly. The diffuser's softly rounded compound curve lends Togo Acoustix a slender appearance. Available in 24", 36" and 48" diameters. Togo's outer housing of extruded aluminum is welded and buffed to a seamless band that can be painted in a variety of standard finishes, or an RAL custom color, to coordinate with virtually any interior finish. The Togo driver mounts remotely, either above or below the ceiling. In addition to a conventional power cord, Togo Acoustix also offers an ultra-clean mounting detail with integrated power and suspension cables. Togo Acoustix is available in Static White. Chromawerx QUADRO, DUO and SOLA are also available, see separate spec sheets.

Order Guide

LUMINAIRE ID	SIZE	OPTICS	LIGHT SOURCE	CRI	LUMEN PACKAGES			COLOR TEMP	VOLTAGE	
TOGOACOP		ULO	SW	90						
TOGOACOP - Togo Acoustix Pendant	24 - 24" diameter 36 - 36" diameter 48 - 48" diameter	ULO - Uniform Lambertian Optic	SW - Static white	90 - 90 CRI	Ø 24" Ø 36" Ø 48"	Low L2500lm L3800lm L5000lm	Medium M3500lm M5300lm M7000lm	High H4500lm H6800lm H9000lm	27 - 2700K 30 - 3000K 35 - 3500K 40 - 4000K	120 -120V 277 - 277V UNV - 120V-277V

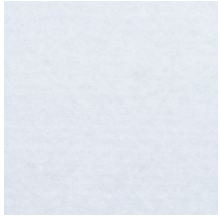
DRIVER	ELECTRICAL	POWER/MOUNTING																
	1																	
		DRIVER BOX	CANOPY FINISH	POWER	MOUNTING POINTS	HEIGHT												
D1 - 1% 0-10V DA* - DALI LTEA2W - Lutron 1% - 2 wire FP 120V LDE1* - Lutron Hi-lume 1% Eco LDES* - Lutron 5% EcoSystem *On-site commissioning is required.	1 - 1 circuit	RCD* - Round canopy driver box RDB - Remote driver box * RCD is NOT available for lumen packages over 6000lm (3500lm for Lutron drivers).	AL - Aluminum B - Matte black W - Matte white CF# - Custom finish specify RAL#	POC - Integrated suspension power-over-aircraft cable BAC - Black power cord + aircraft cable WAC - White power cord + aircraft cable For more information see page 3.	1C - 1 canopy 3C* - 3 canopies 4C* - 4 canopies *Not available with POC power option.	##IN* - Distance from the canopy to the fixture in inches * For 1 canopy option, the minimum mounting heights are: <table border="1"> <tr> <th>Fixture size</th> <th>Round canopy driver box</th> <th>Remote driver box</th> </tr> <tr> <td>Ø 24"</td> <td>min 17.5"</td> <td>min 18.5"</td> </tr> <tr> <td>Ø 36"</td> <td>min 26.75"</td> <td>min 29"</td> </tr> <tr> <td>Ø 48"</td> <td>min 37"</td> <td>min 39.25"</td> </tr> </table>	Fixture size	Round canopy driver box	Remote driver box	Ø 24"	min 17.5"	min 18.5"	Ø 36"	min 26.75"	min 29"	Ø 48"	min 37"	min 39.25"
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FIXTURE FINISH	FELT COLOR																															
A - Aluminum W - Matte white BK - Black RAL 1028 - Yellow RAL 2004 - Orange RAL 3020 - Red RAL 4010 - Magenta RAL 5002 - Blue RAL 6018 - Green CF# - Custom finish, specify RAL#	STANDARD COLORS <table border="1"> <tr> <td>FWN</td> <td>LVN</td> </tr> <tr> <td>FON</td> <td>LEN</td> </tr> <tr> <td>ION</td> <td>CYN</td> </tr> <tr> <td>TBN</td> <td>PMN</td> </tr> <tr> <td>MDN</td> <td>FGN</td> </tr> </table>	FWN	LVN	FON	LEN	ION	CYN	TBN	PMN	MDN	FGN	PREMIUM COLORS* <table border="1"> <tr> <td>PKN</td> <td>CDN</td> <td>IVN</td> <td>BHN</td> </tr> <tr> <td>OGN</td> <td>LCN</td> <td>SLN</td> <td>CFN</td> </tr> <tr> <td>LNN</td> <td>SYN</td> <td>CNN</td> <td>GRN</td> </tr> <tr> <td>LMN</td> <td>BLN</td> <td>GHN</td> <td>MON</td> </tr> <tr> <td>EGN</td> <td>NVN</td> <td>CLN</td> <td>ESN</td> </tr> </table> * Please consult factory for more color options. * Lead time may vary.	PKN	CDN	IVN	BHN	OGN	LCN	SLN	CFN	LNN	SYN	CNN	GRN	LMN	BLN	GHN	MON	EGN	NVN	CLN	ESN
FWN	LVN																															
FON	LEN																															
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OGN	LCN	SLN	CFN																													
LNN	SYN	CNN	GRN																													
LMN	BLN	GHN	MON																													
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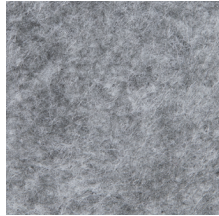
Project: _____

Type: _____

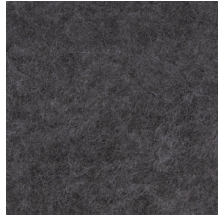
Standard Color Options



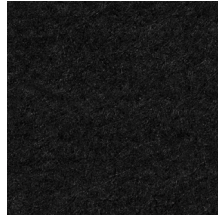
FWN - FROST WHITE



FON - FOG



ION - IRON



TBN - TRUE BLACK



MDN - MIDNIGHT BLUE



LVN - LAVENDER



LEN - LATTE



CYN - CHERRY



PMN - PLUM



FGN - FOREST GREEN

Premium Color Options*



PKN - PAPRIKA



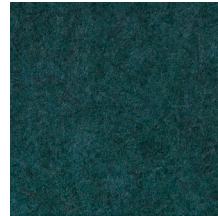
OGN - ORANGE



LNN - LEMON



LMN - LIME



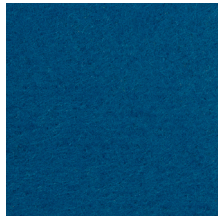
EGN - EVERGREEN



CDN - CLOUDY



LCN - LICHEN



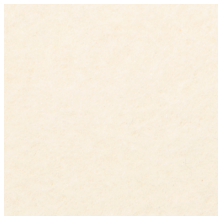
SYN - SKY



BLN - BLUEBERRY



NVN - NAVY



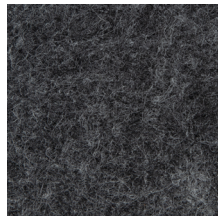
IVN - IVORY



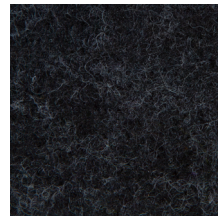
SLN - STEEL



CNN - CARBON



GHN - GRAPHITE



CLN - CHARCOAL



BHN - BLUSH



CFN - CAFÉ



GRN - GREIGE



MON - MOCHA



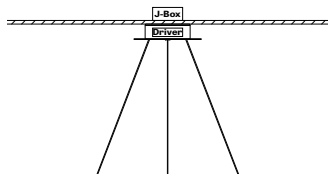
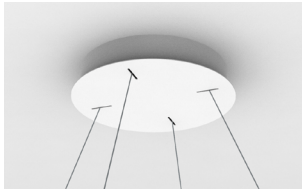
ESN - ESPRESSO

*Please consult factory for more color options.
*Lead time may vary.

Mounting Options

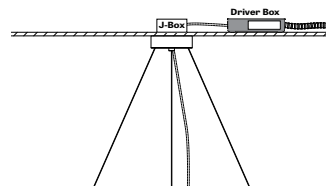
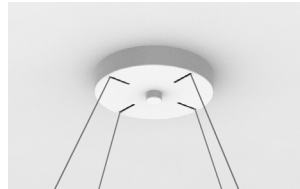
All examples below are also available with aircraft cable.

ROUND CANOPY DRIVER BOX



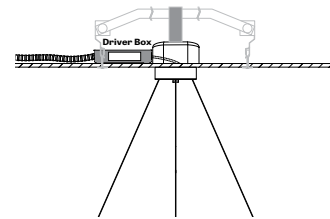
RCD - Round canopy driver box - driver is furnished in a 6" or 9" diameter, 2" deep enclosure that also supports suspension and power cables. Enclosure is available in standard finishes (see ordering code).

REMOTE DRIVER BOX IN DRYWALL



RDB - Remote driver box for drywall - driver is in a 26"x4"x5.5" enclosure with brackets for mounting to ceiling joists or other supporting members. The 5 1/2" diameter x 1 5/8" deep wiring compartment canopy conceals and supports suspension and power cables. It is available in standard finishes (see ordering code).

REMOTE DRIVER BOX IN GRID



RDB* - Remote driver box for grid ceiling - driver is in a 26"x4"x5.5" enclosure with brackets for mounting to ceiling runners. The 5 1/2" diameter x 1 5/8" deep wiring compartment conceals and supports suspension and power cables. ***Additional anchor support(s) not included.**

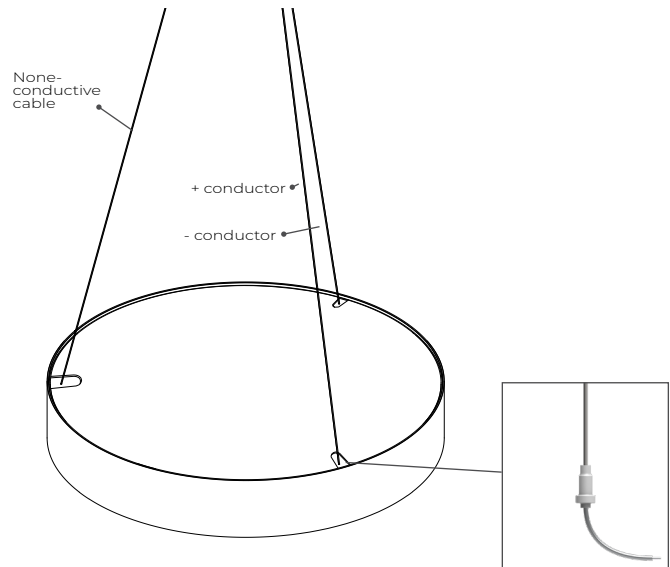
INTEGRATED SUSPENSION AND POWER-OVER-CABLE (POC)

The integrated suspension and power-over-cable option provides an elegant mounting option without the familiar jacketed power cord.

Current from the driver to the LED arrays flows through seven-strand galvanized copper conductors. A dielectric polymer coating insulates the cable, which is supported by insulated holders at the ceiling and luminaire mounting plate. Our standard integrated power-over-cable supports all dimming and control protocols available through the driver options without additional conductors.



Seven-strand galvanized copper conductors. Cable diameter - 0.06" (1.55mm)



Color coded terminal block for ease of connection

ACOUSTIC CALCULATOR

Using the Lumenwerx Acoustix Value Calculator table, you can determine the number of acoustic luminaires required in a space by fixture type. We have three levels of recommended sound reduction: good, better, and best. Choosing one of these options will reduce the sound accordingly. The best option indicates the best acoustic improvement. Calculations are based on a standard ceiling height of 9 feet.



① Calculate the square feet of your room (L x W).

② Choose the level of acoustical improvement you are looking for, and find the corresponding value based on your room dimension and luminaire configuration.

% in reduction in reverberation time		
😊	GOOD	25%
😊😊	BETTER	40%
😊😊😊	BEST	50%

SIZE	Room dimensions under 300 sq ft			Room dimensions over 300 sq ft		
	GOOD 😊	BETTER 😊😊	BEST 😊😊😊	GOOD 😊	BETTER 😊😊	BEST 😊😊😊
24"	18	9	6	28	14	9
36"	42	20	14	65	32	22
48"	75	38	25	120	59	41

③ Use the Lumenwerx Acoustix Value Formula to determine the number of luminaires needed in the room.

$$\text{Square feet} \div \text{Value} = \text{Number of luminaires}$$

Example:

Luminaires: Togo Acoustix, 48" diameter
Room square feet: L: 20 ft x W: 18 ft = 360 sq ft
Desired acoustical improvement: Better = 59
Number of luminaires needed in the room: 360 ÷ 59 = **7 luminaires**

NOTES:

- You can mix lit and blank fixtures.
- Lumenwerx acoustic calculators were developed to act as a guide. For precise acoustic performance in a space, please consult an acoustician.

Project: _____

Type: _____

Technical Specifications

OPTICS

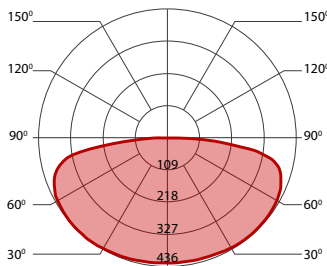
Uniform Lambertian Optic (ULO) - thermoformed from impact-modified white PMMA, the ULO optic provides even luminosity, with up to 88% transmission.

Combined with the LED array running around the inside of the supporting band, the annular form and ULO optic create a widespread 67% direct light distribution with spacing criteria of 1.6.

LIGHT SOURCE - LED

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

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



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), Lutron 5-Series (5% Ecosystem), and DALI protocol drivers. All of our standard 0-10V drivers are NEMA 410 compliant.

WEIGHT

Togo Acoustix 24 - 8.05lbs - 3.65kg
 Togo Acoustix 36 - 12.08lbs - 5.48kg
 Togo Acoustix 48 - 16.1lbs - 7.30kg

CONSTRUCTION

Housing - Rolled and seamlessly welded aluminum extrusion, wide variety of colored powder coating

Diffuser - Uniform Lambertian optic, co-extruded flexible polycarbonate satine finished lens

FINISH

Interior - 95% reflective, matte white powder coating

Exterior - side trim is offered in a range of vibrant color powder coatings

ACOUSTIC FINISH

Material is 100% polyester containing up to 50% of recycled plastic bottles (PET) with an ASTM E-84 Class A fire rating and is moisture resistant.

CARE

Remove dust and debris with a clean, dry, soft, lint-free cloth, or vacuum.

ENVIRONMENT

Ambient temperature at fixture location shall not exceed 30°C/86°F. For indoor use only.

CERTIFICATIONS

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

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.

Project: _____

Type: _____



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 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 Sound - This luminaire is recommended for use as an acoustical absorption surface to limit reverberation times (RT) in a given space. This luminaire contributes to noise reduction and vibration dampening to promote focus and concentration. Reverberation needs to be calculated in each space based on the materials used.



WELL for Mind - This luminaire meets WELL for mind as it is a human centric luminaire offering quality light, excellent color, smooth optics, and a sound diminishing element. 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.