TLX Family

Intelligent Troffer Luminaires

Date: _____

Quantity: _____

Company: _____

Project: _____

The TLX troffer family from Digital Lumens offers unparalleled performance and reliability across a broad range of commercial applications. Featuring modern styling for high visual comfort. For use with indoor applications where low-glare, high-quality and ease of installation are required.

Key Features & Benefits

- Shallow design
- Uniform lighting delivers a balanced amount of light to walls, cubicles, work surfaces and people
- Available in 2 x 2 and 2 x 4 configurations
- Flexible control options
- For use in insulated ceilings

Maximize Energy Savings

With SiteWorx Tune, customize and apply industry-leading lighting control strategies — including daylight harvesting and off-hour setback — to achieve up to 90% energy savings. Accessible via web and mobile applications, intuitive software provides easy management of lighting system settings and comprehensive reporting tools to maximize energy savings, safety, and visual comfort.

Instrument for the IIoT

With Digital Lumens intelligent LED luminaires and Digital Light Agent (DLA) lighting controls, your facility is immediately instrumented with SiteWorx, an easily expandable Industrial IoT solution that enables rapid deployment of additional sensor-based applications that extend beyond lighting to deliver even greater operational insight and create new value streams.

Quality and Reliability

Digital Lumens products are designed and manufactured to satisfy the highest standards of customers worldwide and deliver performance, reliability, and long life.
As an OSRAM business, Digital Lumens solutions are supported by a global network of partners and product specialists.

Specifications

SENSING AND CONTROL

Wireless Networking
- IEEE 802.15.4 Wireless Mesh

Onboard Intelligence
- Energy and fault monitoring
- Protective temperature monitoring and control

Control Options
- Integrated Digital Light Agent Micro (DLA-M-E)
- Integrated Connected Lighting Module (CLM)

Control Capabilities
- On-demand adjustments via mobile and web applications
- kWh and occupancy logging
- Daylight harvesting

Dimming
- 0% – 100%

PERFORMANCE

Power Factor
- 0.9 minimum

Wiring
- Direct wiring with 0.5 inch (13 mm) trade-size knockout

ENVIRONMENTAL

Location Rating
- UL Damp Location

Operating Temperature
- -14° – 104°F (-10° – 40°C)

Maximum Storage Temperature
- 104°F (40°C)

Operating Humidity
- 0% – 95% non-condensing

PHYSICAL

Mounting Options
- T-bar applications

Luminaire Frame
- Die-formed, steel housing

Optic Material
- Wide Round Ribbed Frosted Acrylic (diffuse optic)
- Frosted Polycarbonate Square Lens (P95 optic)

Optic Options
- Round diffuse, Square P95

WARRANTY
- 5-Year Limited Warranty

CERTIFICATIONS
- UL/cUL, Design Lights Consortium (DLC) Premium

TLX-D1

Specifications

PERFORMANCE

Form Factor
- 2 x 2

Color Temperature[1]
- 5,000 K
- 4,000 K
- 3,500 K

Lumen Output (nominal)[2]
- 3,732 lm

Power Consumption
- 30 W

Efficacy[3]
- 125 lm/W

CRI
- 80 minimum, 82 typical

Input Ratings
- 120 – 277 VAC, 50/60 Hz

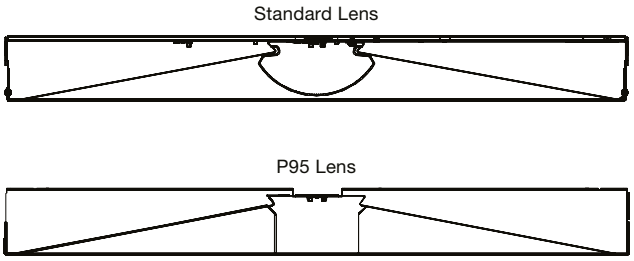
PHYSICAL

Dimensions (H x W x D)
- 23.8 x 23.75 x 2.5 inch (604 x 603 x 63.5 mm)

LUMEN MAINTENANCE & DRIVER LIFETIME[4,5]

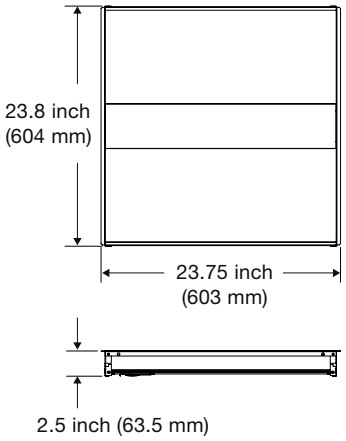
	25˚C	40˚C
L_{90}	71,000	71,000
L_{80}	149,000	149,000
L_{70}	238,000	238,000

Lens Options

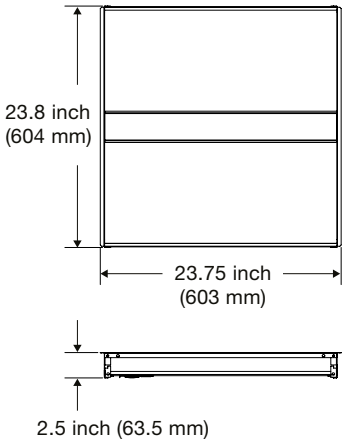


Dimensions

Standard

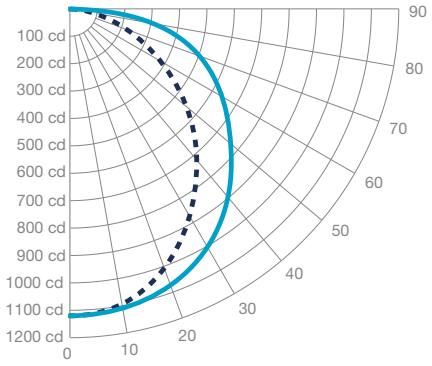


P95



Polar Candela Distribution

Diffuse



TLX-H1

Specifications

PERFORMANCE

Form Factor
- 2 x 4

Color Temperature[1]
- 5,000 K
- 4,000 K
- 3,500 K

Lumen Output (nominal)[2]
- 4,939 lm

Power Consumption
- 36 W

Efficacy[3]
- 137 lm/W

CRI
- 80 minimum, 82 typical

Input Ratings
- 120 – 277 VAC, 50/60 Hz

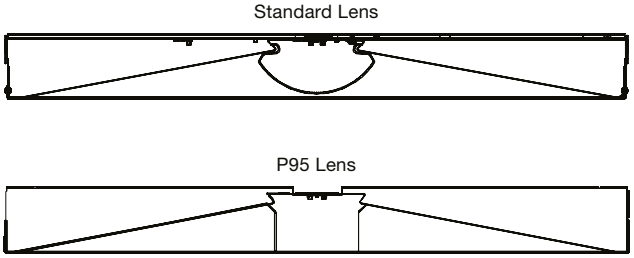
PHYSICAL

Dimensions (H x W x D)
- 23.8x 47.75 x 2.5 inch (604 x 1,213 x 63.5 mm)

LUMEN MAINTENANCE & DRIVER LIFETIME[4, 5]

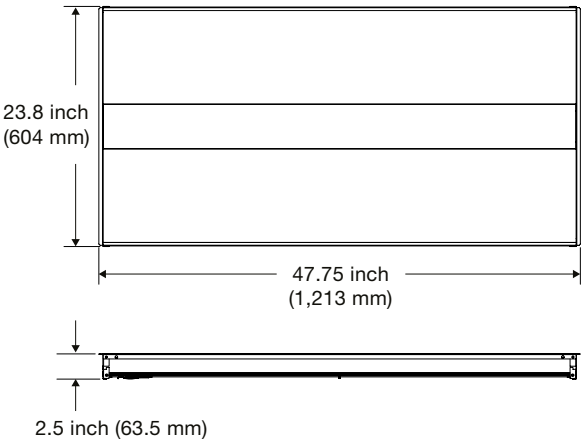
	25˚C	40˚C
L_{90}	– 71,000	– 71,000
L_{80}	– 149,000	– 149,000
L_{70}	– 238,000	– 238,000

Lens Options



Dimensions

Standard



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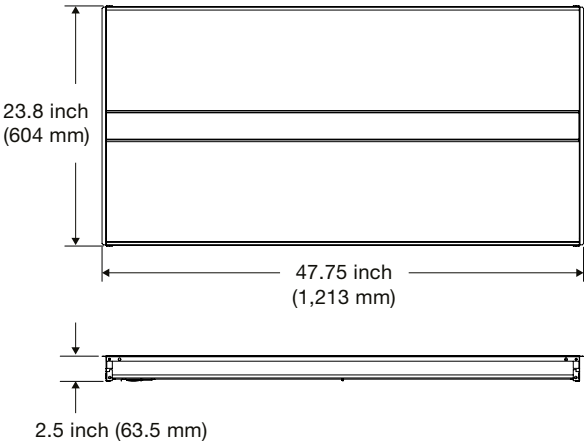
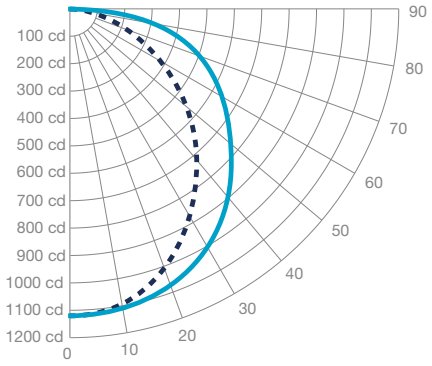


Polar Candela Distribution

Diffuse



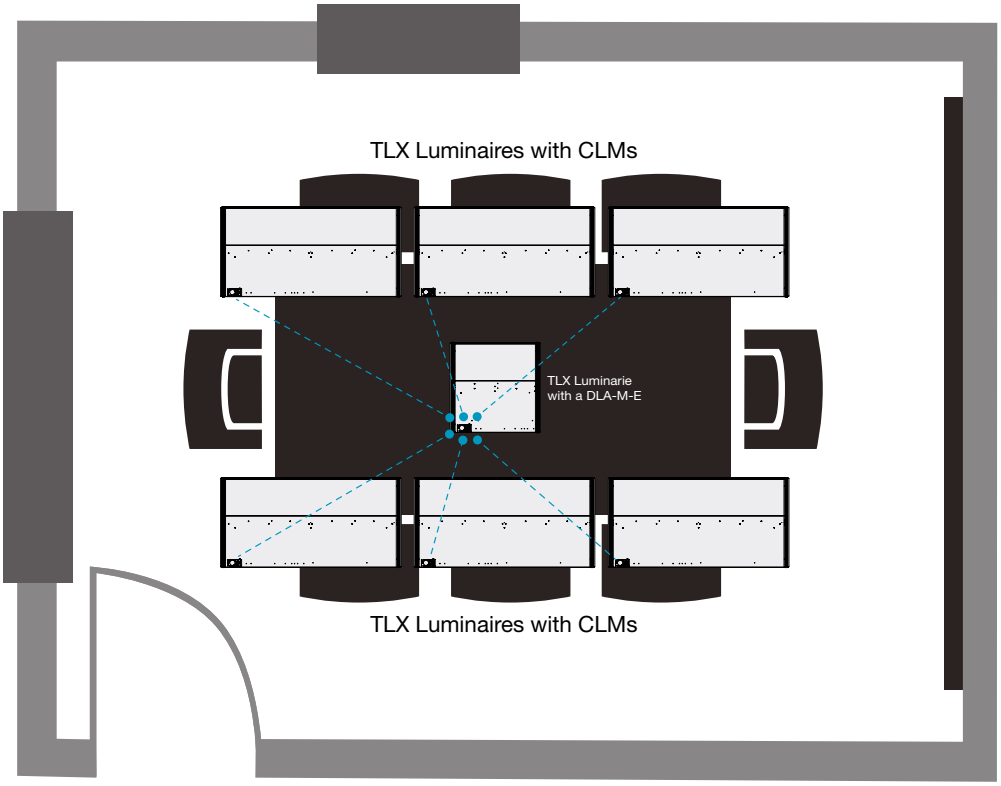
Control Options

Digital Light Agent Micro

DLA-M-E enabled versions of the TLX family are designed for applications where a 1:1 sensor to luminaire ratio is preferred. This solution is optimized for data collection and granular control.

Connected Lighting Module (CLM)

CLM enabled versions of the TLX family are designed for applications where a 1:N sensor to luminaire ratio is needed. This solution is optimized for flexible control options through cooperative control via the SiteWorx® Tune Application.



Conference room with TLX luminaires using a CLM option.

Ordering Information

The table below provides guidelines for encoding item numbers when ordering TLX luminaires. Select a luminaire type (lumen output), control option, voltage, optic, and CRI/CCT, and then use the hyphenated character codes to build a part number.

North America

Luminaire	Type	Control	Voltage	Optic	CRI/CCT
TLX	-D1	-CLM	-ST Standard Voltage 100 – 277 VAC	-D (wide round diffuse)	-835 80 CRI/82 TYP 3,500 K
	-H1	-DLA		-P (square P95)	-840 80 CRI/82 TYP 4,000 K
					-850 80 CRI/82 TYP 5,000 K

Footnotes:

[1] Nominal CCT, as defined by ANSI C78.377-2008.
[2] Diffuse optic.
[3] Efficacy values vary with optic option. See DLC QPL for variant details.
[4] LEDs are driven below current rated current limit to enhance efficiency and increase lifetime of the LEDs. Drivers are tested at ambient (25˚C), 100% continuous duty. Driver design target is always minimum > 50,000 hours at 25˚C.
[5] LM-79, LM-80 tests and reports are performed in accordance to IESNA standards, per TM-21. Lumen maintenance calculated in hours (L70 via TM-21) based on continuous operation.

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OSRAM