

SIDEVIEW 2x2 LED

RECESSED



LUMENWERX
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Shown with CPO optics

DESCRIPTION

The Sideview 2x2 incorporates the innovative Lumenwerx Compression Planar Optic. This luminaire will deliver visually comfortable, and notably uniform, task illumination, while minimizing lighting power density.

The LED flux side-coupled directly on the optical panel, provides the Sideview with a shallow housing, while including the onboard driver and electrical options. Sideview's concave optic provides an uncommonly even luminous surface. Despite its minimal depth, it seems to disappear deep into the ceiling.

PROJECT: _____

APPROVED BY: _____
SIGNATURE: _____

TYPE	QTY
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IC RATED

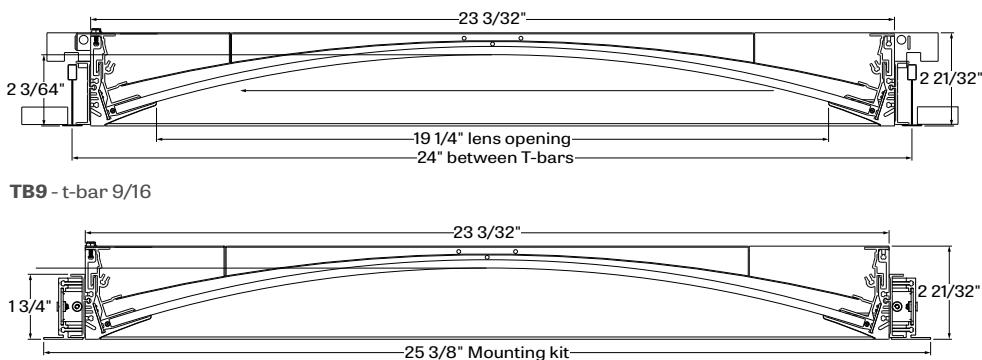
ORDER GUIDE

SIDVR	22	CPO	LED			
LUMINAIRE ID	SIZE	OPTICS	LIGHT SOURCE	CRI	LUMEN PACKAGES	COLOR TEMP.
SIDVR - Sideview recessed	22 - 2'x2'	CPO - Compression Planar Optic	LED - high performance LED	80 - 80CRI 90 - 90CRI 95 - 95CRI min. 75 R9	2000 - min. low output 2000lm 3000 - medium output 3000lm 4000 - max. high output 4000lm #### - other required lm	27 - 2700K 30 - 3000K 35 - 3500K 40 - 4000K

VOLTAGE	DRIVER	ELECTRICAL	MOUNTING	FINISH	OPTIONS
120 - 120V 277 - 277V UNV - 120V-277V 347 - 347V (not available with Lutron)	D1 - 1% 0-10V DA - DALI LTEA2W - Lutron 1% - 2 wire FP 120V LDE1 - Lutron Hi-lume 1% Eco LDE5 - Lutron 5% EcoSystem	1 - 1 circuit +EB - emergency battery pack +GTD - generator transfer device	TG9 - tegular 9/16" TG15 - tegular 15/16" TB9 - t-bar 9/16" TB15 - t-bar 15/16" ST - screw slot t-bar DF - drywall kit	W - matte white CF# - custom finish specify RAL#	FU - fuse FWC - flexible whip cable (6' std) CP - Chicago Plenum CU - custom

See page 4 for ordering code detailed information

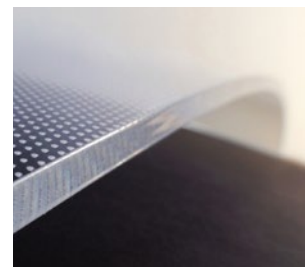
CROSS SECTION



TB9 - t-bar 9/16

DF - drywall kit

OPTICS

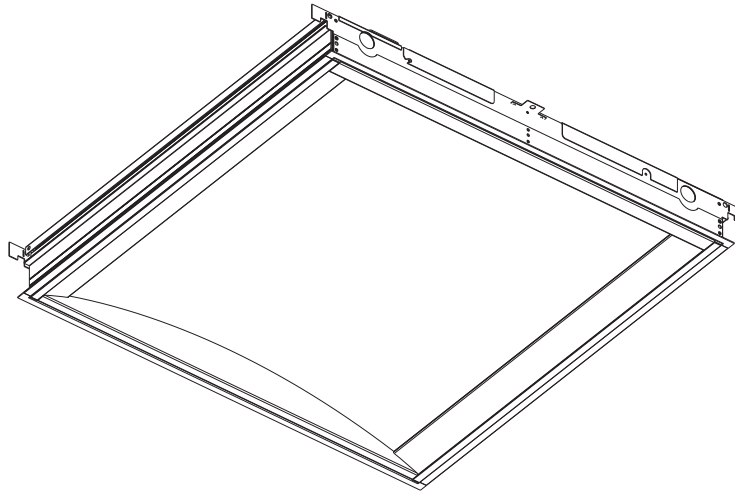


CPO - Compression Planar Optic

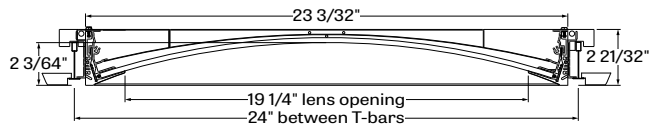
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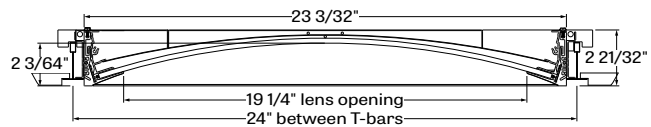
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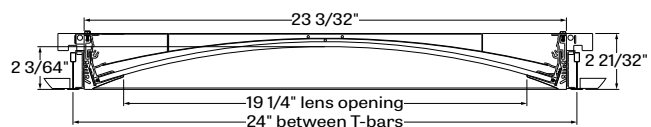
SIDEVIEW - TG9 - tegular 9/16"



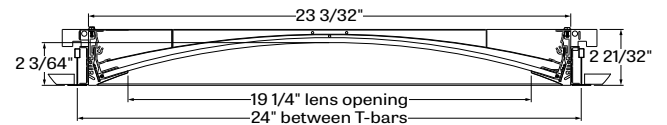
SIDEVIEW - TG15 - tegular 15/16"



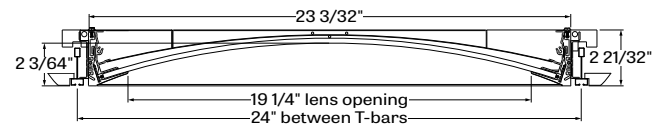
SIDEVIEW - TB9 - t-bar 9/16"



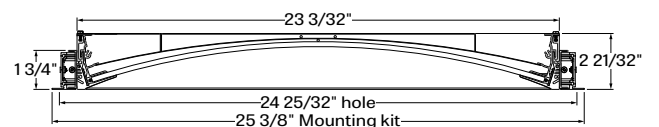
SIDEVIEW - TB15 - t-bar 15/16"



SIDEVIEW - ST- screw slot t-bar



SIDEVIEW - DW- drywall kit



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ELECTRICAL CIRCUITS

DIMMING 0-10V -

1 Circuit

1 CIRCUIT	BLK	HOT (CIRCUIT-1)
	WHT	NEUTRAL (CIRCUIT -1)
	GRN	GROUND
	PPL	DIM(+) 0-10V
	GRY	DIM(-) 0-10V

NOTE: MUST FOLLOW WIRE SIZE AND MAXIMUM LENGTH FOR DIMMING APPLICATIONS.

LUTRON 1% 2-wire FP 120V -

1 Circuit

1 CIRCUIT	BLK	HOT
	WHT	NEUTRAL
	GRN	GROUND

NOTE: MUST FOLLOW WIRE SIZE AND MAXIMUM LENGTH FOR DIMMING APPLICATIONS.

LUTRON LDE1 1%/LDE5 5% EcoSystem -

1 Circuit

1 CIRCUIT	BLK	HOT
	WHT	NEUTRAL
	GRN	GROUND
	PPL	E1 To EcoSystem
	GRY	E2 Digital Link

NOTE: MUST FOLLOW WIRE SIZE AND MAXIMUM LENGTH FOR DIMMING APPLICATIONS.

DIMMING 0-10V -

1 Circuit + Emergency Battery

1 CIRCUIT+EB	BLK	HOT (CIRCUIT-1)
	WHT	NEUTRAL (CIRCUIT -1)
	GRN	GROUND
	RED	UNSWITCHED HOT
	PPL	DIM(+) 0-10V
	GRY	DIM(-) 0-10V

NOTE: MUST FOLLOW WIRE SIZE AND MAXIMUM LENGTH FOR DIMMING APPLICATIONS.

LUTRON 1% 2-wire FP 120V -

1 Circuit + Emergency Battery

1 CIRCUIT+EB	BLK	HOT
	WHT	NEUTRAL
	GRN	GROUND
	RED	UNSWITCHED HOT

NOTE: MUST FOLLOW WIRE SIZE AND MAXIMUM LENGTH FOR DIMMING APPLICATIONS.

LUTRON LDE1 1%/LDE5 5% EcoSystem -

1 Circuit + Emergency Battery

1 CIRCUIT+EB	BLK	HOT
	WHT	NEUTRAL
	GRN	GROUND
	RED	UNSWITCHED HOT
	PPL	E1 To EcoSystem
	GRY	E2 Digital Link

NOTE: MUST FOLLOW WIRE SIZE AND MAXIMUM LENGTH FOR DIMMING APPLICATIONS.

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OPTICS

COMPRESSION PLANAR OPTICS (CPO) - To create the new Lumenwerx Compression Planar Optic (CPO), an edge-lighted luminous plane is held into a soft curve with a precise radius. Combined with a finely textured, extractive microstructure and a contoured reflector, the specific width and curvature of the optical plane redirect light coupled in from the outboard LED arrays into a soft-shoulder distribution with reduced intensity at nadir. The result is a comfortable, high-efficiency optical system with superior luminous uniformity.

LIGHT SOURCE - LED

Custom linear array of mid-flux LEDs are aluminum-mounted for optimal thermal performance. Available in 2700K, 3000K, 3500K and 4000K with a minimum 80 CRI, and options for 90 CRI and 95 CRI with elevated R9 values (min. 50 for 90CRI and min. 75 for 95CRI). Color consistency maintained to within 3 SDCM. LEDs operated 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.

LED output	Color Temp	Watts	Nominal Delivered Lumens	Efficacy LPW
low output	4000K	23	2000	87
medium output	4000K	36	3000	83
high output	4000K	49	4000	82

ELECTRICAL

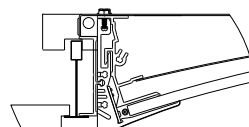
Factory-set, adjustable output current LED driver with universal (120-277VAC) input. Dimmable from 100% to 1% with 0-10V dimming control. Rated life (90% survivorship) of 50,000 hours at 50°C max. ambient (and 70°C max. case) temperature. At maximum driver load: Efficiency>84%, PF>0.9, THD<20%. Other 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.

EMERGENCY

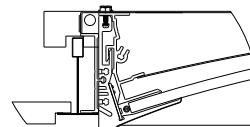
Factory installed long life high temperature recyclable Ni-Cad or Lithium-ion battery pack with test switch and charge indicator, and minimum of 90 minutes operation. Recharge time of 24 hours.

MOUNTING OPTIONS

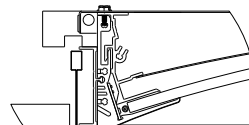
Recess mount into exposed or concealed T-Bar or Tegular grid ceiling



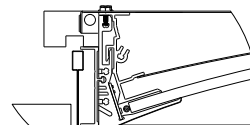
TG9 - tegular 9/16"



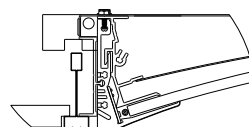
TG15 - tegular 15/16"



TB9 - t-bar 9/16"

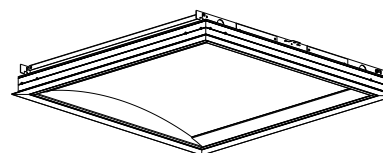
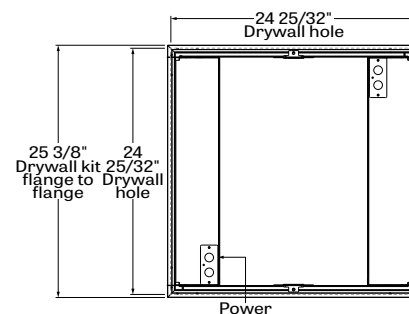


TB15 - t-bar 15/16"



ST - screw slot t-bar

A separate kit for mounting fixtures into drywall ceilings



DF - drywall kit

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FINISH

Interior - 95% reflective, matte white powder coating

Exterior - matte white powder coating

CONSTRUCTION

Housing - Endcaps are made of die formed cold rolled sheet steel 20 gauge thick, matte white powder coated, and sides are produced of aluminum extrusions, high reflective white powder coated

Reflectors - Curved cold rolled steel 24 gauge thick spanning across both side of the housing

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

WEIGHT

Sideview 2x2 Grid - 22.76 lbs. - 10.32kg

Sideview 2x2 Drywall - 24.86 lbs - 11.46kg

CERTIFICATIONS

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

Chicago plenum - City of Chicago Approved (CCEA)

IC rated - suitable for direct contact with insulation

WARRANTY

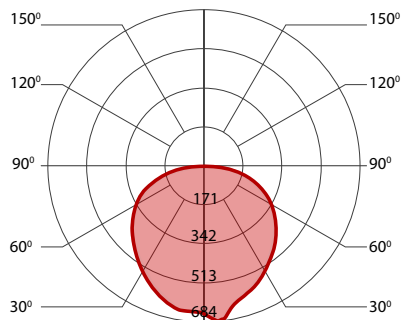
Lumenwerx provides a five-year limited warranty of electrical and mechanical performance of the luminaires, including the LED boards, drivers, and auxiliary electronics. Lumenwerx will repair or replace defective luminaires or components at our discretion, provided they have been installed and operated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

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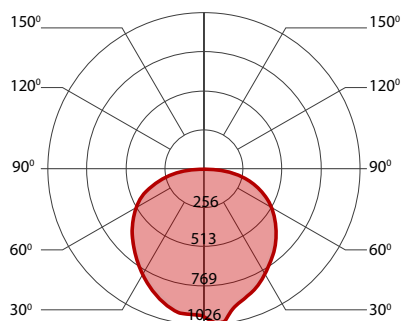
2000 LUMEN AT 80CRI - LOW OUTPUT



PERFORMANCE

LED output	Color Temp	Watts	Nominal Delivered Lumens	Efficacy LPW
low output	3000K	25	2000	81
low output	3500K	24	2000	84
low output	4000K	23	2000	87

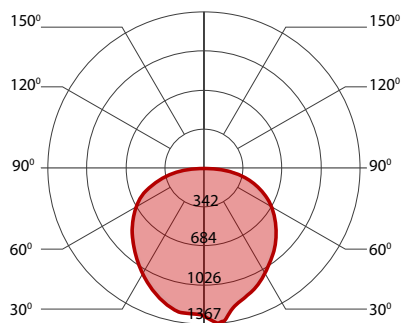
3000 LUMEN AT 80CRI - MEDIUM OUTPUT



PERFORMANCE

LED output	Color Temp	Watts	Nominal Delivered Lumens	Efficacy LPW
medium output	3000K	38	3000	78
medium output	3500K	37.5	3000	80
medium output	4000K	36	3000	83

4000 LUMEN AT 80CRI - HIGH OUTPUT



PERFORMANCE

LED output	Color Temp	Watts	Nominal Delivered Lumens	Efficacy LPW
high output	3000K	52	4000	77
high output	3500K	51	4000	79
high output	4000K	49	4000	82