

DESCRIPTION

GRW is a recessed wet location listed lensed troffer. GRV is a vandal resistant lensed troffer. Both are offered in 2x2, 2x4, and 1x4 sizes. Available with a flush white painted aluminum extruded door, several lumen packages, emergency battery packs, and either 1% or 10% continuous dimming. The shallow depth GRW and GRV are a superb functional and practical LED recessed luminaire.

Typical applications include: schools, lockers rooms, closets, kitchens, cafeterias, restrooms, storage areas, stock rooms, garages, and break rooms.

| Catalog # | | Type |
|-------------|--|------|
| Project | | |
| Comments | | Date |
| Prepared by | | |

SPECIFICATION FEATURES

Construction

Housing is die formed of cold rolled steel and features full length die-formed stiffeners and unibody endplate for added strength. Side flanges are hemmed. Design provides superior lens brightness uniformity and visual comfort. Unibody endplates are securely attached with interlocking tabs and screws. Four auxiliary fixture end suspension points provided. Endplates have integral Grid-lock feature for safety and convenience. Designed for exposed 15/16" or 9/16" wide inverted T-grid. Not compatible with 1 1/2" inverted T-grid ceiling system.

Finish

Multi-stage, iron phosphate pre-treatment ensures maximum bonding and corrosion inhibition. Housing and driver cover finished with 90% reflective white enamel. Painted After Fabrication option available.

Hinging/Latching

Positive spring loaded steel latches with baked white enamel finish. Safety-lock T-hinges allow hinging and latching either side. GRV incorporates tamper resistant screws that secure the latch in place.

Door Frame/Lens/Gasket

Door Frame is constructed of flat aluminum extruded sides and ends, painted gloss white powder coat. GRW lens is available with either Pattern 12 acrylic, 0.125" thick, or prismatic polycarbonate, 0.125" thick.. GRV is offered with prismatic polycarbonate lenses ranging from 0.125" to 0.187" thick. GRW incorporates closed cell gasket between housing and grid, between housing and door frame, and between lens and door frame.

Compliance

Modules are UL recognized components and indoor luminaires are cULus listed for 25°C ambient environments, RoHS compliant, and LED modules comply with IESNA LM-79 and LM-80 standards. Fixtures are suitable for direct insulation contact. GRW is UL wet location listed under covered ceilings. GRV is damp location listed.

Electrical/Controls

LED system coupled with electrical driver delivers optimal performance. LED's available in 3000K, 3500K, 4000K or 5000K with minimum 80 CRI. Projected life is 60,000 hours at 90% lumen output. cULus listed. Electronic drivers for 120-277V applications. 0-10V dimming available for 1% and 10%.

Emergency Battery Pack Option

120V-277V integral emergency battery pack is available in 7-watt or 14-watt to meet critical life-safety lighting requirements. The 90-minute battery provides constant power to the LED system, ensuring code-compliance.



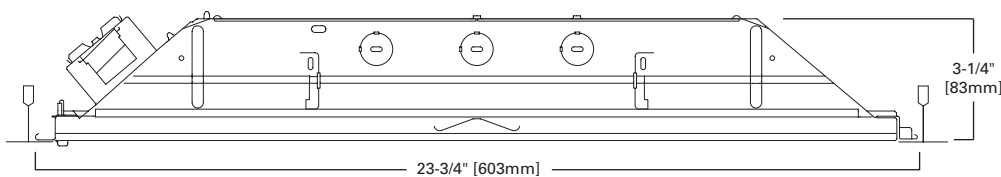
GRW GRV

Wet Location
Vandal Resistant
LED

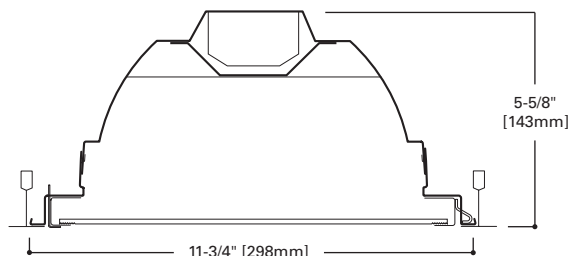
1'x4'
2'x2'
2'x4'

RECESSED LENSED TROFFER

2x2/2x4 cross-section



1x4 cross-section



ORDERING INFORMATION

SAMPLE NUMBERS: GRV-24-2-FA-LD4-43-40-P125-UNV-ED1D1-GSK
GRW-12-4-FA-LD4-32-50-A12125-UNV-EDC1-SL

| GR | Width | Length | Door | LD4 | Lumens | Color Temperature | Lens | Voltage | Driver Type/# of Circuits | Options |
|--|-------|--------|------|--|--------|---|---|---------|---|--|
| GR= GR Troffer | | | | LED Type LD4=LED 4.0 | | 30=3000K 35=3500K 40=4000K 50=5000K | UNV=Universal 120=120V 277=277V 347=347V | | EDC1=Electronic Driver, non-dimming, 1 circuit EDC2=Electronic Driver, 5 non-dimming, 2 circuit EDD1=Electronic Driver, Dimming, 10%, 1 circuit EDD2=Electronic Driver, 5 Dimming, 10%, 2 circuit ED1D1=Electronic Driver, 0-10v Dimming 1%, 1 circuit ED1D2=Electronic Driver, 0-10v Dimming 1%, 2 circuits | PAF=Painted After Fabrication (gloss white finish) GL=Single Element Fuse GM=Double Element Fuse EL7W=7-watt, 120V-277V emergency ³ battery pack installed EL14W=14-watt 120V-277V emergency ³ battery pack installed GTR2=Bodine Generator Transfer Relay ⁶ specify voltage 120 or 277 ETRD=Iota Emergency Transfer Relay ⁶ with dimming control, specify voltage 120 or 277 GSK/GRD=Closed cell gasket on housing flange, that rests on ceiling grid (Standard GRW) SL=Security Latch, (2) phillips pan-head, white painted screws SLTP=Security Latch, (2) tamper proof Torx T20, white painted screws (Standard GRV) INV= Inverted Lens (prisms up, smooth side down) AM=Anti-microbial exposed surfaces only (door) 90=90 CRI |
| Style W=Wet Location V=Vandal | | | | 1x4 Lumens ⁴ 24=2400 32=3200 43=4300 | | GRW A12125=#12 Pattern, 0.125" thick clear prismatic acrylic P125=0.125" thick, clear prismatic polycarbonate | | | | |
| 12=12" 24=24" | | | | 2x2 Lumens ⁴ 24=2400 32=3200 43=4300 50=5000 70=7000 90=9000 | | GRV ACTF140=Acry-Tuf® impact resistant prismatic, 0.140" thick P125=0.125" thick, clear prismatic polycarbonate P156=0.156" thick, clear prismatic polycarbonate P187=0.187" thick, clear prismatic polycarbonate | | | | |
| 2=2' (not available 12" wide) 4=4' | | | | 2x4 Lumens ⁴ 48=4800 64=6400 72=7200 90=9000 120=12000 150=15000 180=18000 | | | | | | |
| Door Frame FA=Flush White Extruded Aluminum | | | | | | | | | | |

Notes:

1.) An EQ Grid Clip is recommended for all 9/16" ceiling systems. 2.) na 3.) With integral test switch/indicator/laser test. For approximate delivered lumens multiply the lumens per watt of the desired fixture by the wattage of the emergency battery pack (100 lm/W x 7=700 lumens). IES-format photometry for luminaire under emergency operation available. 4.) Nominal lumen output with A125 lens. 5.) 2 circuit options, EDC2, EDD2, ED1D2 are ONLY available with 10,000 lumens and up, and 2 circuit option is only available on the 4' length. 6.) Used to bypass local control during outage. Must be used in conjunction with UL 1008 device (provided by others). GTR2 option includes (2) relays on fixtures with dimming drivers. ETRD option only requires (1) relay when used on a dimming fixture. Must specify voltage as 120V or 277V when ordering these devices. 7.) DFCL (gasketed drywall framing kit) is used to install the GRW in hard-ceiling applications. The DFVR/GRV (vandal gasketed drywall framing kit) is required for the GRV in hard ceiling applications. For anti-microbial matte white finish, replace the W with AMW in ordering logic. *

Specification & dimensions subject to change without notice. Consult your Cooper Lighting Solutions Representative for availability and ordering information.

ACCESSORIES (ordered separately)

EQ-CLIP-U=T-BAR Safety Earthquake Clips¹
DFCL-1248W-U=1' x 4' Drywall Frame Kit⁷
DFCL-2424W-U=2' x 2' Drywall Frame Kit⁷
DFCL-2448W-U=2' x 4' Drywall Frame Kit⁷
DFVR/GRV-1248W-U=1' x 4' Drywall Frame Kit⁷
DFVR/GRV-2424W-U=2' x 2' Drywall Frame Kit⁷
DFVR/GRV-2448W-U=2' x 4' Drywall Frame Kit⁷

Approximate Lumen Multiplier

| | |
|---------|-------|
| A125 | 1.0 |
| A19/156 | 0.975 |
| P125 | 0.950 |
| P156 | 0.925 |
| P187 | 0.900 |
| ACTF140 | 0.940 |

Approximate Color Temperature Multiplier

| | |
|-------|-------|
| 5000K | 1.016 |
| 4000K | 1.016 |
| 3500K | 1 |
| 3000K | 0.982 |
| 2700K | 0.930 |

Ceiling Compatibility

G
Grid/Lay-in
Standard



FA
Flat, Extruded
White Aluminum



Ceiling
Type

Exposed Grid
Concealed T
Slot Grid

Trim
Type

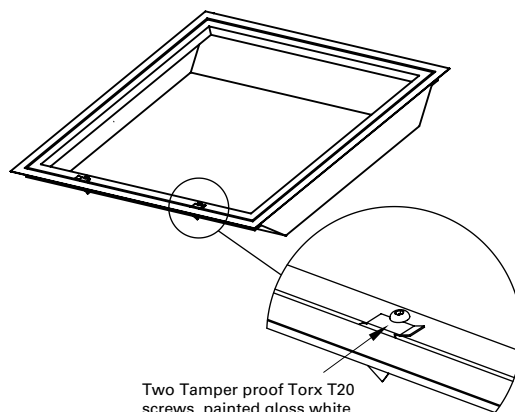
G
G
G

(Verify compatibility/ consult factory.)

Lumens/Wattages

| Size | Lumens | Wattage |
|------|--------|---------|
| 1x4 | 2400 | 21.0 |
| | 3200 | 29.8 |
| | 4300 | 42.0 |
| 2x2 | 2400 | 19.2 |
| | 3200 | 29.9 |
| | 4300 | 40.1 |
| | 5000 | 40.4 |
| | 7000 | 64.2 |
| 2x4 | 9000 | 86.0 |
| | 4800 | 37.4 |
| | 6400 | 48.1 |
| | 7200 | 56.0 |
| | 9000 | 69.1 |
| | 12000 | 90.1 |
| | 15000 | 120.3 |
| | 18000 | 144.2 |

Vandal Resistant Security Latch Detail



Two Tamper proof Torx T20 screws, painted gloss white to match the door frame. Available non-tamper proof screw, optional (SL).