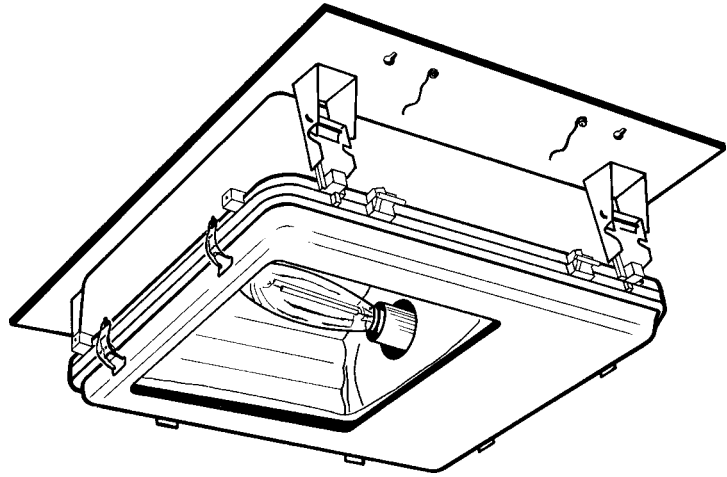




Tunnel Guard™ Luminaire

SUGGESTED APPLICATIONS

Tunnels, underpasses



FEATURES

- Enclosed and gasketed
- Specialized photometric distributions
- Utilizes 70 through 400 watt high pressure sodium (HPS) and 400 watt metal halide lamps
- Flat surface or semi-recessed ceiling mountings
- Fixture attaches to mounting plate with hinges and latches (surface mount)
- Door assembly hinged and latched
- Will withstand 100 psi hosedown
- Heavy-duty die-cast aluminum two-piece housing
- Severe-duty, zinc-rich polyester powder charcoal gray paint finish on housing
- Stainless steel external hardware
- Tempered glass lens
- ALGLAS® finish on aluminum reflector
- Ballast on tray secured in place with wire bail latch
- Choice of ballast types
- Replaceable ignitor plugs into place
- UL1572 Listed **SUITABLE FOR WET LOCATIONS**
- CSA Certified

BENEFITS

- **Helps keep inside optical surfaces clean for best performance**
- **Counterbeam lighting concept, easy eye adaptation, low glare, good visibility**
- **Meets varying light level requirements for tunnel entrances and interiors**
- **Match mounting to job requirements**
- **Easy removal for quick maintenance**
- **No-tool easy installation, relamping and maintenance**
- **Durability during cleaning**
- **Corrosion resistance and long life**
- **Added corrosion resistance**
- **Durability and corrosion resistance**
- **Thermal and impact resistant**
- **Minimizes corrosion, maintenance, easy to clean when needed**
- **Easy installation and removal**
- **Versatility for differing applications**
- **Easy installation and replacement**
- **Meets outdoor requirements**
- **Meets Canadian electrical standards**



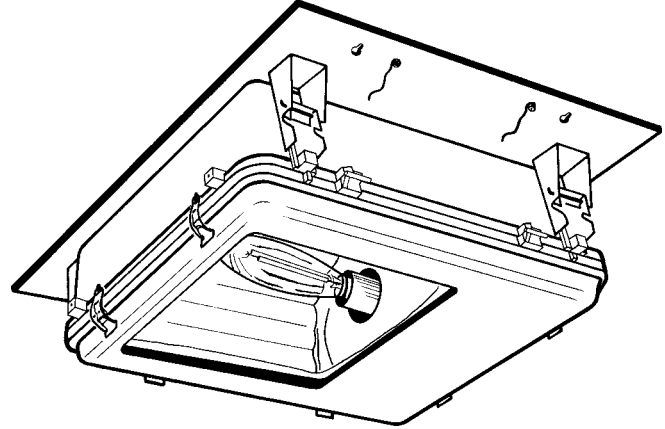
TUNNEL GUARD™ LUMINAIRE

APPLICATIONS

Tunnels, underpasses

SPECIFICATION FEATURES

- UL1572 Listed SUITABLE FOR WET LOCATIONS
- CSA Certified
- Low-glare, specialized photometrics
- Flat surface for semi-recessed ceiling mounting
- No-tool fixture removal for quick maintenance (surface mounted only)
- Heavy-duty die-cast aluminum housing
- Severe duty, zinc-rich polyester powder charcoal gray paint finish on housing
- Stainless steel external hardware
- Door assembly hinged and latched for no-tool installation and removal
- Tempered glass lens
- ALGLAS® finish on aluminum reflector
- No-tool lamp replacement
- Plug-in no-tool replaceable ignitor
- Luminaire normally shipped with hinges and latches. **CEILING MOUNTING PLATE (CMPxxx) IS REQUIRED AND MUST BE ORDERED SEPARATELY.** (See Mounting Accessory Selection Table listing.)
- Standard construction is IP65
- Magnapack packaging available - See Technical Section



ORDERING NUMBER LOGIC



TUN 40 S 4 A 2 CBM 09 CG F

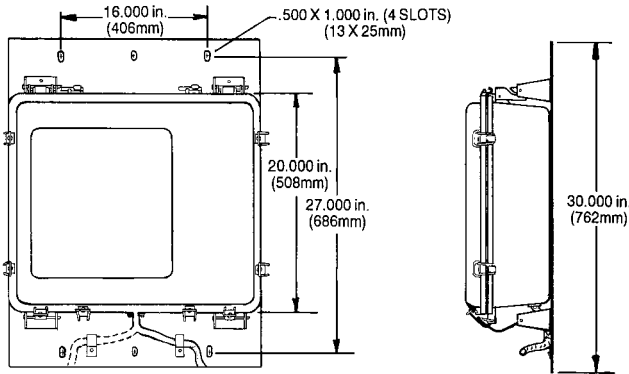
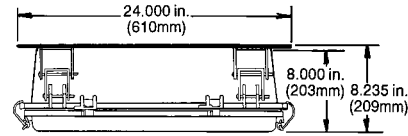
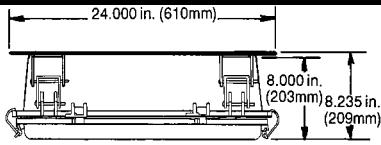
PRODUCT ID XXX	WATTAGE XX	LIGHT SOURCE X	VOLTAGE X	BALLAST TYPE X	AMBIENT °C X	IES DISTRIBUTION TYPE XXX	BEAM ROTATION XX	COLOR XX	OPTIONS XXX
TUN = Tunnel Guard Luminaire	07 = 70 10 = 100 15 = 150 (55V) 20 = 200 25 = 250 31 = 310 40 = 400	S = HPS M = MH Standard: Lamp not included	1 = 120 2 = 208 3 = 240 4 = 277 5 = 480 D = 347	See Ballast and Photometric Selection Table A = Autoreg G = Mag-Reg with Grounded Socket Shell H = HPF Reactor or Lag K = Hot Restart L = Super Low Loss Autoreg M = Mag-Reg N = NPF Reactor or Lag P = CWI with Grounded Socket Shell	2 = 25 4 = 40	See Ballast and Photometric Selection Table CBM = Counter- Beam HTV = Horizontal Type V SYM = Symmetrical (Medium Base Lamp) STM = Symmetrical (Mogul Base Lamp) MC3 = Medium, Cutoff, Type III MC4 = Medium, Cutoff, Type IV	00 = 0° 09 = 90° 18 = 180° 27 = 270° NOTE: Determined by the orientation of luminaire on tunnel ceiling.	CG = Charcoal Gray	F = Fusing

UL The catalog numbers, options and modifications on this page are UL Listed unless otherwise noted.
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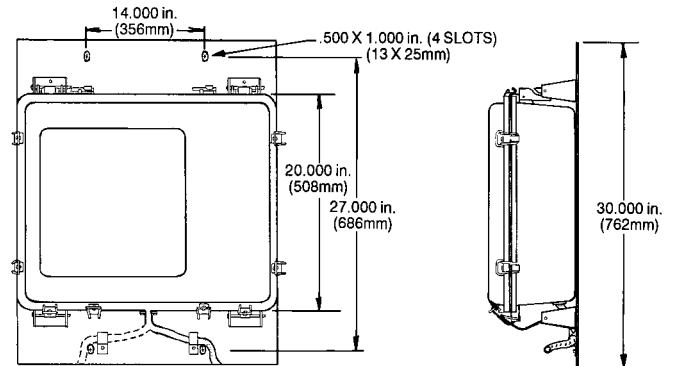


TUNNEL GUARD™ LUMINAIRE

DIMENSIONS

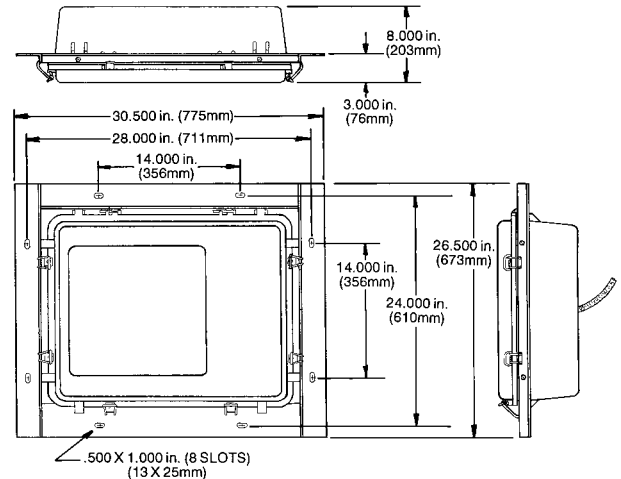


CMP001 - Ceiling Mounting Plate



CMP002 - Ceiling Mounting Plate

Semi-Recessed Mounting
(Contact Factory)



MOUNTING ACCESSORY SELECTION TABLE

ONE REQUIRED PER LUMINAIRE

- CMP001** = Ceiling Mounting Plate (with six bolts)
- CMP002** = Ceiling Mounting Plate (with four bolts)

BALLAST AND PHOTOMETRIC SELECTION TABLE

All light sources are clear unless otherwise indicated.

Wattage	Light Source	Socket Base Size	Ballast Type/Voltage		Photometric Distribution	Photometric Curve Number
			60Hz			
70, 100, 150 (55V)	HPS	Medium	120, 208, 240	347, 120X347V	SYM/STM MC4	7701
70, 100, 150 (55V)	HPS	Medium	277, 480			8045
200, 310	HPS	Mogul	A, M	N/A	CBM MC3	7734
200, 310	HPS	Mogul	A, M	N/A		8044
250, 400	HPS	Mogul	A, G, K**	A, G, M	CBM MC3	7734
250, 400	HPS	Mogul	A, G, K**	A, G, M		8044
400	MH***	Mogul	A	A	CBM HTV	8581
400	MH***	Mogul	A	A		9162

NOTE: N/A = Not Available. * Not available in 120X347V. **400 watt only. ***Lamp for 400 watt MH fixture must be E-18 or ED-28 only.

DATA

Approximate Net Weight	60 lbs (27 kgs)
Suggested Mounting Height	16 ft (5 M)

REFERENCES

See Page 324 for start of Accessories

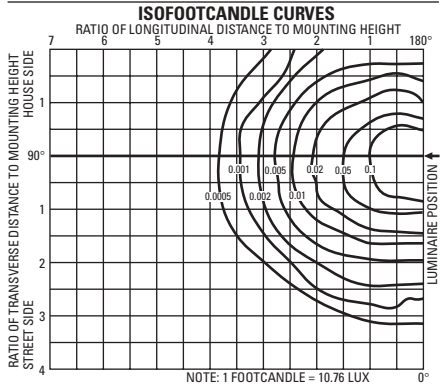
See Page 328 for Explanation of Options and Other Terms Used

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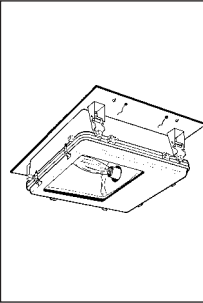
PHOTOMETRIC DATA TUNNEL GUARD™ LUMINAIRE

PHOTOMETRIC DATA 35-177701-02



General Electric TUNNEL GUARD Luminaire
Reflector 35-232903-01, Refractor
Clear Flat Glass, Socket Position Fixed House Side
LAMP- 70 TO 150 WATT HIGH PRESSURE SODIUM

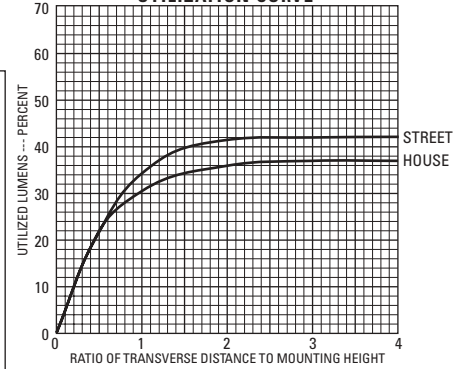
ANSI/IES TYPE CUTOFF
MOUNTING HEIGHT 30 FT.
MAX CANDELA 310.5
MAX CONE 35.0°
MAX VERTICAL PLANE 35.0/325.0°
MAX CANDELA AT 90° 1.2
MAX CANDELA AT 80° 10.2
NADIR FOOTCANDLES 0.1472
DIR CANDELA 132.5
MULTIPLY ALL LUMEN, CANDELA AND FOOTCANDLE VALUES BY THIS RATIO: RATIO = ACTUAL LAMP LUMENS ÷ 1000



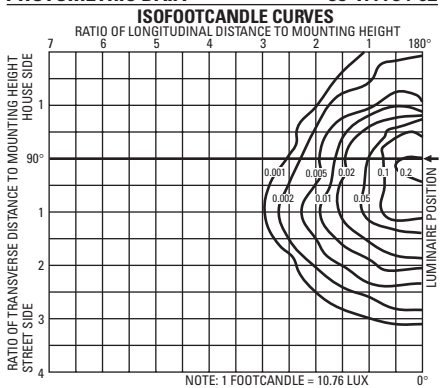
LIGHT FLUX VALUES		
	LUMENS	% OF LAMP
DOWNWARD STREET SIDE	418	41.8
UPWARD STREET SIDE	2	0.2
DOWNWARD HOUSE SIDE	362	36.2
UPWARD HOUSE SIDE	2	0.2
TOTAL	783	78.3

PER 1000 LAMP LUMENS

UTILIZATION CURVE

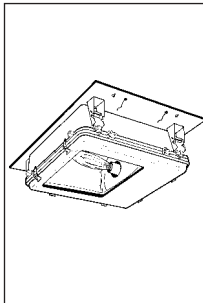


PHOTOMETRIC DATA 35-177734-02



General Electric TUNNEL GUARD Luminaire
Reflector 35-232888-01, Refractor
Clear Flat Glass, Socket Position Fixed
LAMP- 200 TO 400 WATT HIGH PRESSURE SODIUM

ANSI/IES TYPE COUNTERBEAM
MOUNTING HEIGHT 25 FT.
MAX CANDELA 475.7
MAX CONE 45.0°
MAX VERTICAL PLANE 5.0/365.0°
MAX CANDELA AT 90° 2.8
MAX CANDELA AT 80° 7.7
NADIR FOOTCANDLES 0.2172
DIR CANDELA 136.5
MULTIPLY ALL LUMEN, CANDELA AND FOOTCANDLE VALUES BY THIS RATIO: RATIO = ACTUAL LAMP LUMENS ÷ 1000



LIGHT FLUX VALUES		
	LUMENS	% OF LAMP
DOWNWARD STREET SIDE	514	51.4
UPWARD STREET SIDE	4	0.4
DOWNWARD HOUSE SIDE	211	21.1
UPWARD HOUSE SIDE	3	0.3
TOTAL	733	73.3

PER 1000 LAMP LUMENS

UTILIZATION CURVE

