

## GCS - Surface Mount Gas Canopy T5HO

- ▶ **Retail Lighting Fashions Constantly Evolve, Fuel Retail is No Different.**
  - Energy efficient, dark sky compliant, cost effective lighting solutions never go out of style.
  - Replace MH400, MH250, and PS320 with 3-lamp F54 T5HO, 6-lamp F24 T5HO or 4-lamp F24 T5HO.
  - How? We put the light where you need it.
- ▶ **Fuel Retailers Want**
  - High Color Rendering
  - No Color Shift
  - Excellent Uniformity
  - 90%+ Lumen Maintenance
  - Low Energy and Maintenance Costs
- ▶ **Applications**
  - C-Store Fuel Centers
  - Big Box Retail Fuel Centers
  - Truck Stops
  - Drive Through Canopies
- ▶ **Recessed or Surface Mount?**
  - In 2007 we introduced the industry's first recessed T5HO luminaire tailored to recess into standard interlocking steel canopy panels.
  - In 2009 we added the GCS surface mount option.
  - Recessed is often the preferred approach, however congestion above deck or existing 2x2 paint footprints can present costly barriers to a recessed retrofit.
  - The GCS allows the fuel retailer to take advantage of T5HO technology where recessed is not practical.

### ▶ GCS - Energy Efficient Gas Canopy Luminaire



### ▶ Application



### GCS - 2x2 - 6L - T5HO - UL - MN - PSH - ST - EA - PPC - C4 - SHP

GCS	2x2	6L	T5HO	UL	MN	PSH	ST	EA	PPC	C4	SHP	
Model	Fixt Size	Lamp Qty	Lamp Type	Voltage	Ballast Factor	Ballast Starting	Ballast Grade	Reflector	Body Finish	Other	Other	Other

Fixture Series  
GCS Surface Mount

Fixture Size  
1X4 = 1x4 Nominal  
2X2 = 2x2 Nominal

Lamp Qty  
2L = 2L F54T5HO  
3L = 3L F54T5HO  
4L = 4L F24T5HO  
5L = 5L F24T5HO  
6L = 6L F24T5HO

Lamp Type  
T5HO = Linear T5HO Lamps

Voltage  
UH = Universal 347-480  
UL = Universal 120-277

Ballast Factor (2)  
MN = Neutral Power (.97 - 1.04)

Ballast Starting  
PS = Programmed Start  
PSH = Program Start Hi-Lo

Ballast Grade  
ST = Standard Grade

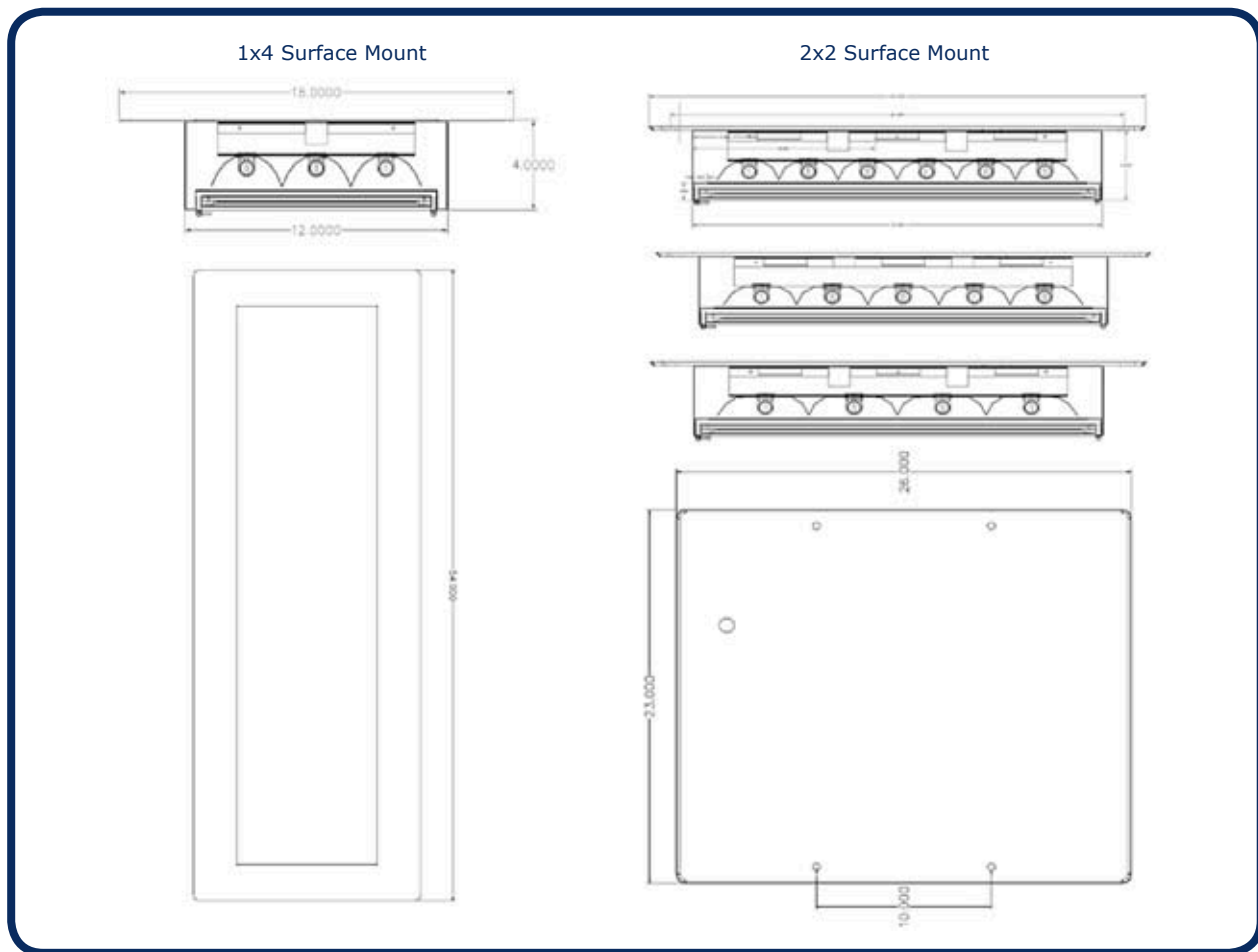
Reflector Material  
EA = Enhanced Aluminum 93-94%  
MM = Micro Matte 91-93%  
WA = White Aluminum Reflector 90-91%

Body/Flange Finish  
PPC = Post Production Powdercoat White  
RAL = RALxxxx (RAL Specification)

Primary Wiring  
C4 = 4' Cord, Liquid Tight Connector, Top Center  
NKO = None, No KO, to be field drilled  
CKO = Top Center KO for field install

Other  
SHP = Standard Hardware Pack

## GCS - Surface Mount Gas Canopy T5HO



### Existing Systems

HID System	Lamp Qty & Type	Initial Lamp Lumens	Lumen Maintenance	EOL(1) Lumens per Lamps	Total Fixture Lumens	Ballast Factor	EOL(1) Lumens Per Fixt	S/P (2) Ratio	Net (3) EOL Lumens	Fixt Input Watts	Net (4) EOL LPW
MH250	1 Std MH250	20,500	58%	11,890	11,890	1.00	11,890	1.49	16,228	295	55
MH320PS	1 PS MH320	31,700	62%	19,654	19,654	1.00	19,654	1.49	26,825	368	73
MH400	1 Std MH400	38,000	58%	22,040	22,040	1.00	22,040	1.49	30,081	458	66

### Re-Lighting Option

T5HO System	Lamp Qty & Type	Initial Lamp Lumens	Lumen Maintenance	EOL(1) Lumens per Lamps	Total Fixture Lumens	Ballast Factor	EOL(1) Lumens Per Fixt	S/P (2) Ratio	Net (3) EOL Lumens	Fixt Input Watts	Net (4) EOL LPW
2L-T5HO	2 FP54T5HO	5,000	93%	4,650	9,300	1.00	9,300	1.62	13,549	117	116
3L-T5HO	3 FP54T5HO	5,000	93%	4,650	13,950	1.00	13,950	1.62	20,323	176	115
4L-T5HO	4 FP24T5HO	2,000	93%	1,860	7,440	1.00	7,440	1.62	10,839	108	100
6L-T5HO	6 FP24T5HO	2,000	93%	1,860	11,160	1.00	11,160	1.62	16,259	162	100

(1) EOL = End of Life (2) S/P Ratio = Scotopic to Photopic Lumens (3) Net EOL Lumens = EOL Lumens Per Fixture x (S/P)<sup>.78</sup> [.78 exponent]

(4) LPW = Efficacy, Lumens per Watt, based on (3) Net EOL Lumens = EOL Lumens Per Fixture x (S/P)<sup>.78</sup> [.78 exponent]

### General Notes

- Lamp/ballast system values shown are a general reference intended to supply a quick comparison of several common lamp/ballast systems, the associated energy consumption, and net lumen output.
- Values shown are based on T5HO lamps operating at 35c ambient. Consult the GCR or GCS Relative Light Output curve from -30f to +150f ambient when designing your system.
- There are many operating variables that affect system output, in addition to rating variances from brand to brand.
- In addition to those shown there are a wide variety of systems to choose from, each with distinct features and cost points.
- Please consult the lamp/ballast manufacturer's catalogs for the detailed information required to model your system.
- Lumen maintenance percentages shown are at EOL (End of Life).