

## QCF-LED Gas Canopy Fixture

- ▶ **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 and PS320 with 135 Watts of LED.
  - How? We put the light where you need it.
- ▶ **Fuel Retailers Want**
  - High Color Rendering
  - No Color Shift
  - Excellent Uniformity
  - Low Energy and Maintenance Costs
- ▶ **Applications**
  - C-Store Fuel Centers
  - Big Box Retail Fuel Centers
  - Truck Stops
  - Any Outdoor Canopy
- ▶ **Why [P2]? It's Simple, Our Experience.**
  - We've excelled at skillfully deploying the most energy-efficient light sources and luminaire technology since 1992.
  - Some Configurations DLC listed, see below or consult factory.

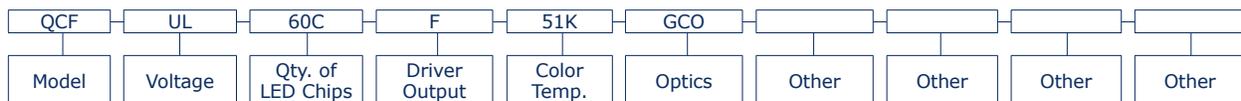
### ▶ QCF - Energy-Efficient LED Gas Canopy Luminaire



### ▶ Application



### QCF - UL - 60C - F - 51K - GCO



**Model**  
QCF = LED Canopy Fixture

**Voltage**  
UL = 120 through 277 volt  
347 = 347 Volt  
480 = 480 Volt

**Qty. of LED Chips**  
24C = 24 Chip Board (60W)  
36C = 36 Chip Board (89W)  
48C = 48 Chip Board (115W)  
60C = 60 Chip Board (141W)

**Drive Output**  
F = Fixed  
DM = 0-10V Dimming (1)

**Color Temperature**  
51K = 5100 Kelvin

**Optics**  
GCO = Gas Canopy Optic  
WAO = Wide Area Optics  
WQO = Wide Square Optics

**Mounting Options**  
SMB = Surface Mount Box

**Sensor**  
WL = Wet Location Low Bay (2)

**Numerical Notes**  
1. Use with lighting controls. Contact factory for assistance.  
2. Available with SMB option only.



## QCF-LED Gas Canopy Fixture

### Replacement Chart

Existing HID System	Replace With QCF
MH175	QCF-24C
MH250	QCF-36C
MH320PS	QCF-48C
MH400	QCF-60C
HPS400	QCF-60C



### Energy Usage – QCF Systems

System	New LED System	Typical Wattage	Annual Hours	Annual kWh	Typical Site kWh (24 Fixt)
A	QCF-60C	141	4,380	618	14,822
B	QCF-48C	115	4,380	504	12,089
C	QCF-36C	89	4,380	390	9,356
D	QCF-24C	60	4,381	263	6,309

### Energy Savings

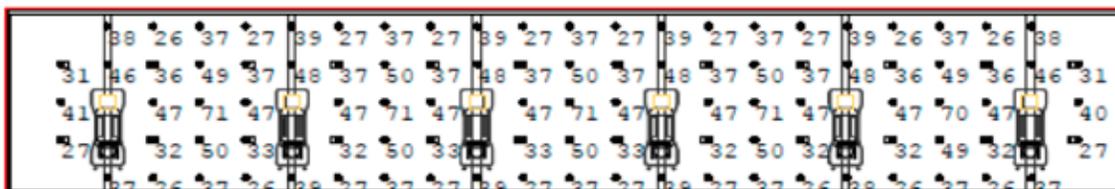
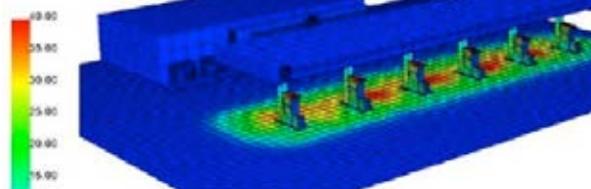
System Comparison	kWh Savings Total Site	Annual \$ Savings \$0.095 kWh	Annual \$ Savings \$0.125 kWh	Annual \$ Savings \$0.155 kWh
A vs. Y	33,323	\$3,165.69	\$4,165.38	\$5,165.07
B vs. X	26,595	\$2,526.56	\$3,324.42	\$4,122.28
C vs. W	21,655	\$2,057.20	\$2,706.84	\$3,356.48
D vs. V	15,767	\$1,497.82	\$1,970.82	\$2,443.82

### Energy Usage – HID Systems

System	Existing HID System	Typical Wattage	Annual Hours	Annual kWh	Typical Site kWh (24 Fixt)
Z	HPS400	464	4,380	2,032	48,776
Y	MH400	458	4,380	2,006	48,145
X	MH320PS	368	4,380	1,612	38,684
W	MH250	295	4,380	1,292	31,010
V	MH175	210	4,380	920	22,075

### Actual one-for-one replacement

- 17' mounting height, 6 pump islands, 24 fixtures
- Average Maintained FC MH400 = 21
- Average Initial FC QCF-60C-GCO = 55 FC
- Excellent Uniformity



### QCF Performance

LED System	Initial Lumens	Wattage	Efficacy	CCT (K)	CRI	Power Factor	THD %
QCF-60C-GCO	15,169	141	108	5,000	67	>.90	<20%
QCF-48C-GCO	12,032	114	106	5,000	67	>.90	<20%
QCF-36C-GCO	8,982	87	103	5,000	67	>.90	<20%
QCF-24C-GCO	5,750	60	96	5,000	67	>.90	<20%

(1) CCT = Correlated Color Temperature, Efficacy = Lumens per Watt, CRI = Color rendering Index, THD = Total Harmonic Distortion

### General Notes

- System values shown are a general reference intended to supply a quick comparison of several common HID systems and the associated energy consumption.
- QCF Performance values shown are based on LM-79 testing in a 25°C ambient.
- Dollar Savings are based on several average power consumption rates and a total site consisting of 24 fixtures.

## QCF-LED Gas Canopy Fixture

