



GAS STATION GUIDE 1

LED RETROFIT

GAS STATION



SPACE CHARACTERISTICS

Length: 50'
Width: 54'
Height: 18' Hard Ceiling
Reflectivity: Ceiling = 80%
Walls = n.a.
Floor = n.a.

PRODUCT SPECIFICATIONS

Dimensions: Varies
Optics: Symmetric & Asymmetric
Light Source: LED
CCT: 5700K
CRI: 70
Lumen: 6497 delivered
Depreciation: 0.95 @ 60,000 hrs.
Rated Life: 100,000 hrs.
Watts: 72

THE OPPORTUNITY

Retrofit existing metal halide system with LED fixtures providing high quality lighting that illuminates the pump island area to recognized standards and meet or beat the local energy codes. The precise optical control enabled by using an LED fixture ensures that light is directed where needed. The long life cycle of LEDs saves energy and reduces required maintenance of fixtures that are difficult to access.

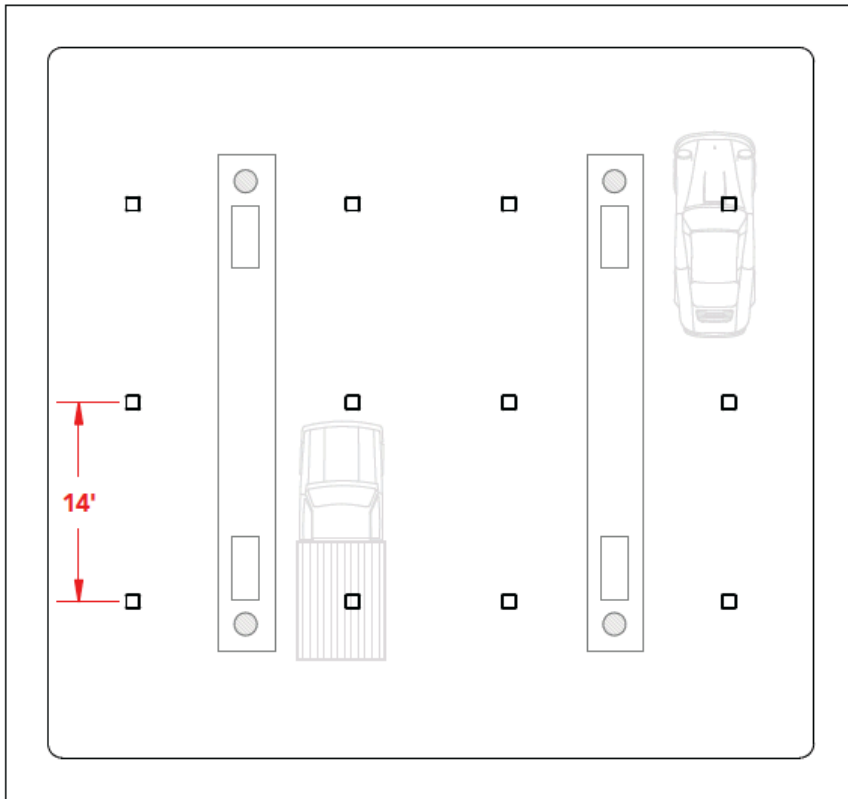
THE SOLUTION

Install LED luminaires specifically designed for use in gas station canopies with an existing spacing of 14' x 14' in the center, which is within the suggested spacing-to-mounting height criteria of 1.2 to 1.0. The fixtures are also sealed and gasketed for damp or wet location rating. LED fixtures offer a variety of beam patterns to ensure that the light is directed where needed.

DESIGN CONSIDERATIONS

Though vertical illumination is important, in this application the emphasis is on appropriate horizontal illumination.

Gas Station LED Retrofit | 14' On Center Spacing, Centered Within Driving Lane



INSTALLATION SPECS

- Number of Luminaires:** 12
- Luminaire Spacing:** 14' on center within driving lane
- Mounting Condition:** Surface
- Mounting Height:** 18'
- Average Illumination:** ~15 fc
- Watts/sq. ft.:** ~0.32
- IES Recommended Footcandles (fc):** 10 - 15 fc

CONTROLS STRATEGY

Significant energy savings can be gained by using an astronomical time clock to turn lights OFF automatically after hours.

ENERGY SAVING STRATEGIES

STRATEGY	BENEFIT	TECH NOTE
Lighting panel with astronomical time clock function set dusk-to-dawn	Lights can be OFF for a number of hours, saving energy and prolonging system life	Consider adjusting the ON-OFF time to an hour after dusk and an hour before dawn