

## Application Brief

### LIFI<sup>®</sup> for General Lighting



#### Key Benefits of LIFI<sup>®</sup> in General Lighting:

- Energy efficiency (120 lm/W)
- Low maintenance (30,000 hr Lifetime)
- Daylight spectrum (5600K) with 96 CRI
- Dimmable and Digitally controlled

#### Other benefits:

- Compact & rugged fixtures
- Improved fixture efficiency and illuminance uniformity
- Full cutoff
- 5X faster ignition and re-strike
- Reduced environmental costs (small source & fixture)

*Recommended Products:*

*LIFI-STA-40-01*

*LIFI-STA-40-02*

## LIFI® in General Lighting

Improves performance of fixture types:

- Direct and Indirect Street Lights
- Parking Lots
- Industrial High-Bay
- Architectural Downlight
- Façade Lighting

Value Proposition – Operating Cost:

Fixture Technology Lamp Model	Industrial Highbay	
	PS Metal Halide	Solid-State High Intensity
	MH-400-HOR-PS	LIFI-STA-40-01
Lamp Power (W)	400	187
Ballast/Driver Eff. (%)	87%	75%
AC/DC Eff. (%)	100%	90%
Tot. Power (W)	460	277
Source Lumens/Watt	90	120
Initial Source Lumens	36000	22440
Mean Source Lumens	25200	19074
Fixture Eff. (%)	70%	92%
<b>Mean Fixture Lumens</b>	<b>17640</b>	<b>17548</b>
Daily Usage (hrs)	16	16
Dimming Level	1	1
Dimming (hrs)	0	0
Annual KW-Hr (Full Power)	2685	1618
Annual KW-Hr (Dim)	0	0
\$/KW-Hr	0.13	0.13
<b>Annual Operating Cost (\$)</b>	<b>\$ 349</b>	<b>\$ 210</b>
Lifetime (Hrs)	15000	30000
Replacement Lumen Level	70%	70%
Replacement Cycle (Hrs)	10500	21000
#Lamps/Yr	0.56	0.28
Replacement Cost/Lamp (\$)	150	150
<b>Annual Maint Cost (\$)</b>	<b>\$ 83</b>	<b>\$ 42</b>
<b>Total Annual Cost (\$)</b>	<b>\$ 432</b>	<b>\$ 252</b>
<b>Savings/Fixture (\$)</b>		<b>\$ 180</b>
<b>Savings/Installation (\$)</b>	<b>2,000 units</b>	<b>\$ 360,890</b>

Light fixture data based on commercially available products.

[www.LUXIM.com](http://www.LUXIM.com) • [www.LIFI.com](http://www.LIFI.com)