

## Application Brief

### LIFI® for Indirect Luminaires



#### Key Benefits of LIFI® in Walkway Lighting:

- 50% reduction in power consumption by fixture
- Glare Free
- Single source with highest lumen density (430 lumens/mm<sup>2</sup>)
- High CRI for city beautification
- Compact fixture
- Low maintenance (30,000 hrs lifetime)

#### Other benefits:

- Improved illuminance uniformity
- 5X faster ignition and re-strike
- Rugged and impact resistant
- Reduced environmental costs (small source & fixture)
- Dimmable

*Recommended Product:*

*LIFI-STA-40-01  
LIFI-STA-40-02*

LIFI® in Walkway Lighting

Proposed Example Light Fixture Types:

- Indirect walkway
- Direct walkway
- Full cutoff

Value Proposition – Operating Cost:

Fixture Technology Lamp Model	Walkway Indirect Pulse Start Metal Halide MH-400-BU-PS	Walkway Indirect Solid State High Intensity LIFI-STA-40-01
Lamp Power (W)	400	187
Ballast/Driver Eff. (%)	92%	75%
AC/DC Eff. (%)	100%	90%
Tot. Power (W)	435	277
Source Lumens/Watt	92	120
Initial Source Lumens	36800	22440
Mean Source Lumens	25760	19074
Fixture Eff. (%)	50%	87%
<b>Mean Fixture Lumens</b>	<b>12880</b>	<b>16594</b>
Daily Usage (hrs)	12	12
Dimming Level	1	1
Dimming (hrs)	0	0
Annual KW-Hr (Full Power)	1904	1213
Annual KW-Hr (Dim)	0	0
\$/KW-Hr	0.13	0.13
<b>Annual Operating Cost (\$)</b>	<b>\$ 248</b>	<b>\$ 158</b>
Lifetime (Hrs)	15000	30000
Replacement Lumen Level	70%	70%
Replacement Cycle (Hrs)	10500	21000
#Lamps/Yr	0.42	0.21
Replacement Cost/Lamp (\$)	250	250
<b>Annual Maint Cost (\$)</b>	<b>\$ 104</b>	<b>\$ 52</b>
<b>Total Annual Cost (\$)</b>	<b>\$ 352</b>	<b>\$ 210</b>
<b>Annual Savings/Fixture (\$)</b>		<b>\$ 142</b>
<b>Savings/Installation (\$)</b>	<b>10,000 Units</b>	<b>\$ 1,419,632</b>

*Light fixture data based on commercially available products.*

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