

Application Brief

LIFI® for Petroleum Retail Lighting



Key Benefits of LIFI® in Petroleum Retail:

- 22000 lumens from a single compact source
- Highest white light source efficiency (120 Lumens/Watt)
- Low maintenance (30,000 hrs lifetime)
- High CRI
- Low glare

Other benefits:

- 5X faster ignition and re-strike
- Improved safety (low voltage and no hot filaments)
- Rugged and impact resistant
- Reduced environmental costs (smaller source & fixture)

Recommended Product:

LIFI-STA-40-01

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Proposed Example Light Fixture Types:

- Canopy
- Recessed canopy
- Walkway

Value Proposition - Operating Cost:

Fixture Technology	Canopy PS Metal Halide	Canopy LED	Canopy Solid State High Intensity
Lamp Model	MH-400-HOR-PS	White LED	LIFI-STA-40-01
Lamp Power (W)	400	350	187
Ballast/Driver Eff. (%)	90%	90%	75%
AC/DC Eff. (%)	100%	90%	90%
Tot. Power (W)	444	389	277
Source Lumens/Watt	92	70	120
Initial Source Lumens	36800	24500	22440
Mean Source Lumens	25760	20825	19074
Fixture Eff. (%)	65%	85%	93%
Mean Fixture Lumens	16744	17701	17739
Daily Usage (hrs)	12	12	12
Dimming Level	1	1	1
Dimming (hrs)	0	0	0
Annual KW-Hr (Full Power)	1947	1703	1213
Annual KW-Hr (Dim)	0	0	0
\$/KW-Hr	0.13	0.13	0.13
Annual Operating Cost (\$)	253	221	158
Lifetime (hrs)	15000	50000	30000
Replacement Lumen Level	70%	70%	70%
Replacement Cycle (Hrs)	10500	50000	30000
#Lamps/Yr	0.42	0.09	0.15
Replacement Cost/Lamp (\$)	200	400	200
Annual Maint Cost (\$)	83	35	29
Total Annual Cost (\$)	336	256	187
LIFI Annual Savings (\$)	150	70	

Light fixture data based on commercially available products.

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