PRECISION PARAGON
EFFICIENCY, ECONOMY, SUSTAINABILITY.
www.P-2.com
(714) 386-5550 CA
(715) 381-2971 WI
(352) 692-5900 FL

IST – Induction Area Lighter

Seeking an Ultra-long Life Energy Efficient Lighting Solution?

- Induction is a mid-priced option, typically more costly than linear fluorescent, but lower cost than LED, and P2 can tailor it to your needs.
- Philips QL and Sylvania Icetron systems are rated for 100,000 hour system life dramatically reducing long term maintenance costs.

Why P2? It's Simple, Our Relighting Experience.

- Properly deployed, Induction is a valuable niche light source.
- Improperly deployed on your project, it can be a nightmare.
- We understand what it takes to successfully deploy the latest energy efficient, long life lighting technologies and tailor them to your application.
- Our engineers have the tools and expertise to thermally and photometrically model your system to ensure that the long life and performance promised by induction light sources is delivered.

IST – Long Life Area Lighter (1x2 Nominal Shown)

Application

- 1x2 for 8-15' Pedestrian Scale applications.
- 1x4 ICF for 18-30' area lighting applications.
- General area lighting applications where maintenance costs are compounded by inaccessibility and prescribed lengthy service intervals.
- Applications where routine outages can not be tolerated.
- Full cutoff fixture meets Dark Sky requirements.

IST – ICF – 41K – 1x4 – UL – NA

IST	ICF	41K	1x4	UL	NA		
Model	Induction System	Lamp Color	Fixture Size	Voltage	Icetron Other	Other	Other

Fixture Series
IST = Induction Pole Top

Induction System
QLA = Philips, 55 Watt, 3500 Lumen System
QLB = Philips, 85 Watt, 6000 Lumen System
QLC = Philips, 165 Watt, 12000 Lumen System
ICA = Osram, 77 Watt, 6500 Lumen System
ICB = Osram, 103 Watt, 8000 Lumen System
ICD = Osram, 149 Watt, 11000 Lumen System
ICE = Osram, 156 Watt, 12000 Lumen System
ICF = Osram, 312 Watt, 24000 Lumen System

Lamp Color
35K = 3500 Kelvin (Osram Only)
41K = 4100 Kelvin (Osram Only)
50K = 5000 Kelvin (Osram Only)
30K = 3000 Kelvin (Philips Only)
40K = 4000 Kelvin (Philips Only)

Fixture Size
1x2 = 1x2 Nominal (ICA, ICB, ICD, ICE only)
1x4 = 1x4 Nominal (ICF only)

Voltage
120 = Dedicated Voltage 120v (Philips Only)
277 = Dedicated Voltage 277v (Philips Only)
UL = Universal Low 120 through 277volt (Osram Only)

Icetron Other Options
NA = None Selected
TC = Amalgam Tip Covers for Extreme Cold

Other Options
See EST, ESTE, and ESW Cutsheet for details, options, and mounting hardware.

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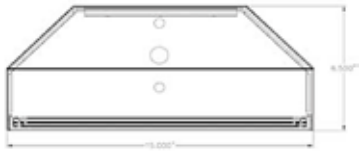
IST – Induction Area Lighter

Fixture Construction

- Bronze Powder coat Finish.
- Welded aluminum housing.
- Tempered Glass Lens.
- Osram Sylvania Icetron or Philips QL induction technology.
- Amalgam controlled Hg vapor provides stable light output.
- Assembled and engineered in the USA. Hudson WI, Gainesville FL, Orange County CA.

IST - Cross Section



IST - Long Life Area Lighter
(1x4 Nominal for ICF System Shown)

Existing Systems

Existing HID System	Lamp Qty & Type		Initial Lamp Lumens	Mean Lumens Per Lamp	S/P (1) Ratio	S/P(2) Adjusted Lumens	System Input Watts	Lumens (3) Per Watt	Rated Life (Hours)
HPS-150 Standard	1	HPS150	15,000	13,500	0.62	9,298	190	49	24,000
MH-175 Standard	1	MH175	13,500	8,775	1.49	11,977	210	57	10,000
HPS-250 Standard	1	HPS250	27,000	24,300	0.62	16,737	295	57	24,000
MH-250 Standard	1	MH250	20,500	13,500	1.49	18,425	295	62	10,000

Re-Lighting Option

Proposed Induction System	Lamp Qty & Type		Initial Lamp Lumens	Mean Lumens Per Lamp	S/P (1) Ratio	S/P(2) Adjusted Lumens	System Input Watts	Lumens (3) Per Watt	Rated Life (Hours)
QLA - QL55 System	1	QL55/840	3,500	2,800	1.62	4,079	55	74	100,000
QLB - QL85 System	1	QL85/840	6,000	4,800	1.62	6,993	85	82	100,000
QLC - QL165 System	1	QL165/840	12,000	9,600	1.62	13,986	165	85	100,000
ICA - ICE70 & QT100 Ballast	1	ICE70/841	6,500	4,830	1.62	7,037	77	91	100,000
ICB - ICE100 & QT100 Ballast	1	ICE100/841	8,000	5,945	1.62	8,661	103	84	100,000
ICD - ICE100 & QT150 Ballast	1	ICE100/841	11,000	8,175	1.62	11,910	149	80	100,000
ICE - ICE150 & QT150 Ballast	1	ICE150/841	12,000	8,915	1.62	12,988	156	83	100,000
ICF - (2) ICE150 & QT150 Ballasts	2	ICE150/841	24,000	17,830	1.62	25,976	312	83	100,000

Numeric Footnotes
(1) S/P Ratio = Scotopic to Photopic Lumens
(2) SP Adjusted Lumens = Mean Lumens x (S/P).78 [.78 exponent]
(3) Lumens Per Watt = S/P Adjusted Lumens / Fixture Input Watts

General Notes
- There are many operating and thermal variables that affect Induction system output Consult factory for assistance in modeling your Induction system.
- Values shown are based on design operating temperatures and at 277 volts.
- Fixture efficiencies and system layout are not comprehended in the table, but will also affect the usefulness of the system.