

ICETRON™ 24" MULTI-PURPOSE PARABOLIC TROFFER

ICEPBSQ24

SUBMITTAL:

INDUCTION

JOB:

TYPE:

VOLTAGE:

EXAMPLE

ICEPBSQ24 - 150L - 35K - OPTIONS - UNV

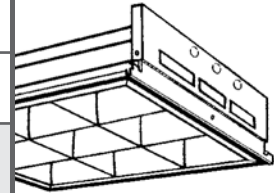
SERIES

LAMP
WATTAGE

COLOR
TEMPERATURE

OPTIONS/
ACCESSORIES

VOLTAGE

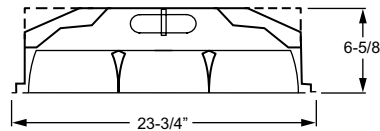


LOUVER
Patented
Inverted



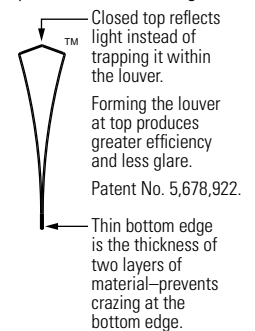
FEATURES

- ▶ Perfect for applications that are difficult to access or expensive to maintain such as over escalators or areas with high ceilings.
- ▶ 100,000-hour lamp life significantly reduces maintenance where re-lamping is inconvenient or expensive.
- ▶ Induction lamps provide excellent lumen maintenance—70% at 60,000 hours.
- ▶ Lamps are available in 3500K, 4100K, and 5000K.
- ▶ 80 color rendering index (CRI).
- ▶ 100W and 150W systems operate in ambient temperatures as low as -40°C/-40°F.
- ▶ Full 3" patented inverted louver design reduces glare, provides greater efficiency, crisp lines, and eliminates crazing at bottom edge of louver.
- ▶ Precision highly specular reflector system provides superior optical performance.
- ▶ Instant-on/instant re-strike.
- ▶ All-aluminum components dissipate heat for cooler operation.
- ▶ This fixture is proudly made in the USA.



SPECIFICATIONS

Housing – .040" thick die-formed aluminum.
Parabolic Louver – Semi-specular low-iridescent aluminum standard with tab-and-slot construction. Patented (No. 5,678,922) inverted parabolic louver design.



Door Frame – Concealed 22-gauge C.R.S. frame riveted to louver.

Reflector – 95% reflective highly specular aluminum reflector system.

Finish – 92% minimum average reflective white polyester powder coat bonded to phosphate-free, multi-stage pretreated metal. All parts painted after fabrication to facilitate installation, increase efficiency, and inhibit corrosion.

Electrical – Electronic 120-277V ballast standard. Prewired at factory for easy field installation.

Mounting – NEMA Type "G" standard. For flange installations use the Drywall Kit (DFK), ordered separately, see Information section.

Labels – UL/CUL listed for dry or damp locations.

ORDERING INFORMATION

SERIES

ICEPBSQ24 ICETRON™ 24" Multi-Purpose Parabolic Troffer

LAMP WATTAGE

100 100-watt
150S¹ 150-watt (11,000 lumens)¹
150L² 150-watt (12,000 lumens)²

LAMP COLOR TEMPERATURE

35K 3500K
41K 4100K
50K 5000K

ACCESSORIES

For flange installations use the Drywall Kit (DFK), ordered separately, see Information section.

VOLTAGE

UNV 120-277V

¹ 150S system consists of an ICETRON 100/2P/ECO lamp and a QT 1x150 ICE/UNV-T ballast.

² 150L system consists of an ICETRON 150/2P/ECO lamp and a QT 1x150 ICE/UNV-T ballast.

INDUCTION

PHOTOMETRY INFORMATION

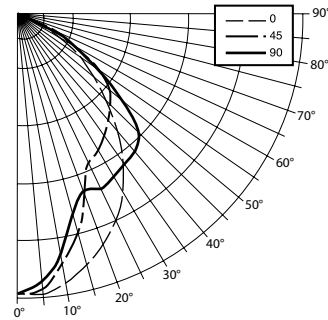
Catalog #: ICEPBSQ24-150

TEST REPORT INFORMATION

- ▶ Test Report #: 10308.0
- ▶ Date: 06/03/99
- ▶ Lamp Type: ICE150/835
- ▶ Lamp Quantity: 1

CANDLEPOWER DISTRIBUTION

Vertical Angle	Horizontal Angle			Zonal Lumens
	0°	45°	90°	
0°	4892.	4892.	4892.	
5°	4907.	4816.	4707.	458.9
15°	4542.	3981.	3630.	1137.4
25°	4016.	2866.	3330.	1527.1
35°	3202.	2600.	3208.	1768.5
45°	2207.	2267.	2982.	1840.2
55°	1256.	1702.	1633.	1349.0
65°	303.	588.	467.	464.3
75°	41.	59.	69.	60.0
85°	8.	6.	7.	7.0
90°	0.	0.	0.	



LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixture
0 - 30	3123.	26.0	36.3
0 - 40	4892.	40.8	56.8
0 - 60	8081.	67.3	93.8
0 - 90	8612.	71.8	100.0
Total Luminaire:			
0 - 180	8612.	71.8	100.0
Total Luminaire Optical Efficiency: 71.8%			
IES Spacing Criteria: End = 1.1			
Diagonal = 1.1			
Across = 1.2			

ZONAL CAVITY COEFFICIENTS

	Ceiling			Wall			Floor		
	.80	.70	.50	.70	.50	.30	.50	.30	.10
Room Cavity Ratio 0	.85	.85	.85	.83	.83	.83	.80	.80	.80
1	.80	.78	.75	.78	.76	.74	.73	.72	.70
2	.75	.70	.67	.73	.69	.66	.67	.64	.62
3	.70	.64	.59	.68	.63	.59	.61	.57	.54
4	.65	.58	.53	.63	.57	.52	.55	.51	.48
5	.60	.52	.46	.58	.51	.46	.50	.45	.42
6	.55	.47	.41	.54	.46	.41	.45	.40	.37
7	.51	.42	.37	.50	.42	.37	.41	.36	.33
8	.47	.38	.33	.46	.38	.32	.37	.32	.28
9	.43	.34	.29	.42	.34	.29	.33	.28	.25
10	.40	.31	.26	.39	.31	.26	.30	.25	.22

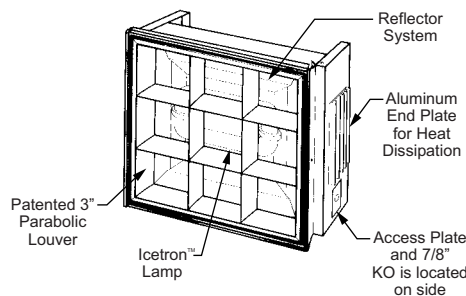
Effective Floor Cavity Reflectance = .20

QUANTITY ESTIMATOR

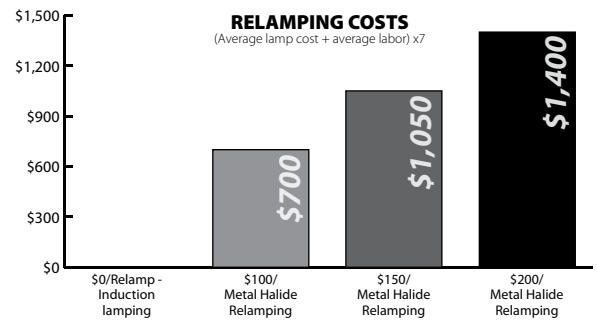
Room Size	±50 fc.	±75 fc.	±100 fc.
20' x 20' (400 sq. ft.)	4	5	7
30' x 30' (900 sq. ft.)	8	12	16
40' x 40' (1,600 sq. ft.)	15	22	29

Calculations based on standard reflectance of 80/50/20 and a light loss factor of 1.0 with a 15'-0" ceiling height.

FIXTURE DETAILS



Featured Components



Re-Lamp Savings Over 100,000 Hours¹

¹ ICETRON™ (100,000-hour life) systems are ideal for lighting fixtures where replacement costs are high. Look at how much it costs to replace HID (15,000-hour life) or standard fluorescent lamps in hard-to-reach areas. When you factor in labor costs, equipment rental and lost time, ICETRON can pay for itself over and over again. Labor costs may vary from \$50 to \$200 depending on city, type of work, and number of fixtures. Resource: Osram Sylvania's Update, August 1999.