

ICETRON™ 12" SQUARE INDUCTION DOWNLIGHT

ICESQ12

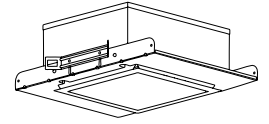
SUBMITTAL:

INDUCTION

JOB:

TYPE:

VOLTAGE:



EXAMPLE

ICESQ12 - 100 - 35K - OPTIONS - UNV

SERIES

LAMP
WATTAGE

COLOR
TEMPERATURE

OPTIONS

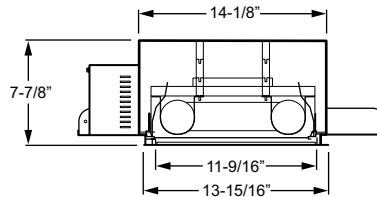
VOLTAGE



FEATURES

- ▶ 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).
- ▶ 55°C/131°F maximum operating temperature.
- ▶ 100W and 150W systems operate in ambient temperatures as low as -40°C/-40°F (-25°C/-13°F for 70W systems).
- ▶ Instant-on/instant re-strike.
- ▶ Integral pan throat field-adjusts to accommodate ceilings up to 2" thick.
- ▶ Sturdy one-piece pan construction.
- ▶ Adjustable hanger brackets with bar hangers standard.
- ▶ This fixture is proudly made in the USA.

Note: Ambient temperature ratings vary with lamp and voltage—consult factory.



SPECIFICATIONS

Housing – 20-gauge die-formed galvanized steel pan/plaster frame.

Door Frame – Die-cast aluminum with neoprene gasket and textured matte white polyester TGIC powder coat.

Reflective Surfaces – Highly reflective white polyester powder coat bonded to phosphate-free, multi-stage pretreated metal.

Shielding – Clear prismatic tempered glass lens standard.

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

Mounting – Recessed. Pan size: 17" x 23" Ceiling cutout: 13-1/4" sq.

Labels – UL/CUL listed for through-branch circuit wiring and dry or damp locations.

ORDERING INFORMATION

SERIES

ICESQ12 ICETRON™ 12" Square Induction Downlight

LAMP WATTAGE

70 70-watt
100 100-watt
150S¹ 150-watt¹

COLOR TEMPERATURE

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

OPTIONS

DAL Drop acrylic prismatic lens
DPL Drop polycarbonate prismatic lens
PB4C 4-cell, 1-1/2" parabolic louver
PB9C 9-cell, 1-1/2" parabolic louver
F Fuse (must specify voltage)
WG Wireguard
TP² Tamper-resistant²

VOLTAGE

UNV 120-277V

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

² This option requires a tamper-resistant tool (must be ordered separately). Please specify quantity required per project.



INDUCTION

PHOTOMETRY INFORMATION

Catalog #: ICESQ12-100/12-C73

TEST REPORT INFORMATION

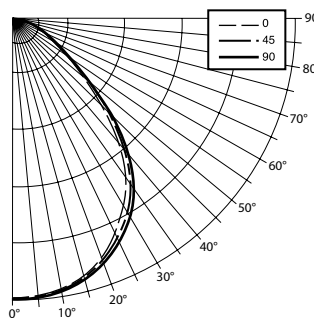
- ▶ Test Report #: 10619.0
- ▶ Date: 03/09/00
- ▶ Lamp Type: ICETRON 100/QT100
- ▶ Lamp Quantity: 1
- ▶ Rated Lumens: 8000.

DESCRIPTION

- ▶ 1/100W Icetron Lamp
- ▶ 12" Square Recessed Mounted Luminaire
- ▶ Specular Reflector with C73 Prismatic Glass Lens—Prisms Down
- ▶ Sylvania Ballast #QT 1x100/1220-240-ICE

CANDLEPOWER DISTRIBUTION

Vertical Angle	Horizontal Angle			Zonal Lumens
	0°	45°	90°	
0°	2290.	2290.	2290.	
5°	2293.	2276.	2273.	217.7
15°	2192.	2204.	2220.	623.4
25°	1975.	2013.	2049.	924.5
35°	1627.	1698.	1742.	1047.3
45°	1104.	1173.	1199.	883.3
55°	577.	591.	617.	510.3
65°	298.	298.	306.	289.1
75°	170.	165.	167.	173.4
85°	45.	44.	41.	44.7
90°	0.	0.	0.	



LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixture
0 - 30	1766.	22.1	37.5
0 - 40	2813.	35.2	59.7
0 - 60	4206.	52.6	89.2
0 - 90	4714.	58.9	100.0
Total Luminaire:			
0 - 180	4714.	58.9	100.0
IES Spacing Criteria: End = 1.2 Diagonal = 1.2 Across = 1.2			

ZONAL CAVITY COEFFICIENTS

Room Cavity Ratio	Ceiling	.80			.70			.50		
	Wall	.70	.50	.30	.70	.50	.30	.50	.30	.10
	0	.70	.70	.70	.69	.69	.69	.65	.65	.65
1	.66	.63	.61	.64	.62	.60	.60	.58	.57	
2	.61	.57	.54	.60	.56	.53	.54	.52	.49	
3	.57	.52	.48	.55	.51	.47	.49	.46	.43	
4	.53	.47	.42	.51	.46	.42	.45	.41	.38	
5	.49	.42	.38	.48	.42	.37	.40	.37	.34	
6	.45	.38	.34	.44	.38	.33	.37	.33	.30	
7	.42	.35	.30	.41	.34	.30	.34	.30	.27	
8	.39	.31	.27	.38	.31	.27	.30	.26	.24	
9	.36	.28	.24	.35	.28	.24	.27	.23	.21	
10	.33	.26	.22	.33	.26	.21	.25	.21	.18	

Effective Floor Cavity Reflectance = .20

QUANTITY ESTIMATOR

Room Size	±50 fc.	±75 fc.	±100 fc.
20' x 20' (400 sq. ft.)	7	10	13
30' x 30' (900 sq. ft.)	15	23	30
40' x 40' (1,600 sq. ft.)	27	40	54

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