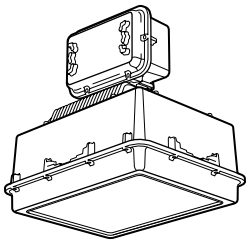
INDUCTION AREA LIGHT – VERTICAL BALLAST

ICEAL4

SUBMITTAL:

JOB:

TYPE: **VOLTAGE:**



EXAMPLE: **ICEAL4 - 150S - 41K - FLD/CG1 - PH - OPTIONS - GRAY - UNV**

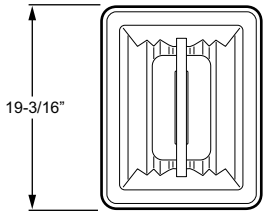
SERIES	LAMP	COLOR TEMPERATURE	DISTRIBUTION/ LENS	MOUNTING	OPTIONS	FINISH OPTIONS	VOLTAGE

SERIES

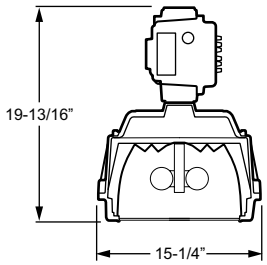
SYLVANIA ICETRON™

- 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.
- 80 color rendering index (CRI).
- 55°C/131°F maximum operating ambient temperature.[1]
- 100W and 150W systems operate in ambient temperatures as low as -40°C/-40°F (-25°C/-13°F with 70W system).[1]
- All-aluminum components dissipate heat for cooler operation.
- IDA Approved™ Dark-Sky Friendly.
- Low EMI–complies with FCC non-consumer limits.
- This fixture is proudly made in the USA.

Note: Component failure due to contaminant intrusion through the primary entry is not covered under warranty. Please see footnote on back for more details.



Bottom View



Weight: 38 Lbs.

[1] Data is lamp specific. Ambient temperature ratings vary with lamp and voltage–consult factory. Extremely low temperatures may result in reduced light output.

LAMP (Must specify)

SYSTEM	WATTAGE	LUMENS
70	70-watt	6500
100	100-watt	8000
150S[2]	150-watt	11000

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

LAMP COLOR TEMPERATURE (Must specify)

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

DISTRIBUTION (Must specify with Lens)

BAT/	Batwing	**FLD/**	Flood 6 x 6

LENS (Must specify with Distribution)

CG1	Clear tempered glass, 3/16" thick (standard)	**DPL**	Drop polycarbonate (BAT distribution only)
C73	Clear prismatic tempered glass (FLD distribution only)	**MPG**	Micro-prismatic tempered glass
CPL	Clear polycarbonate	**PPL**	Prismatic polycarbonate (FLD distribution only)

ICEAL4 SERIES

HOUSING — Fully enclosed, .125" thick, 100% recycled, die-cast aluminum fixture and ballast housing with premium silicone gasketing standard.

REFLECTOR — 95% reflective highly specular aluminum.

ELECTRICAL

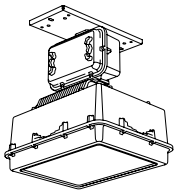
Electronic 120-277V ballast standard. Prewired at factory for easy field installation. 480V available with integral stepdown transformer.

SHIELDING

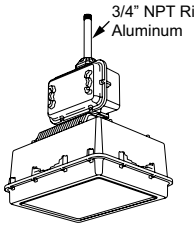
Clear tempered glass lens (CG1).

MOUNTING
Surface or pendant mount.

MOUNTING (Must specify)

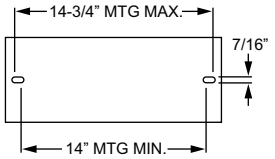


SM
Surface mount plate

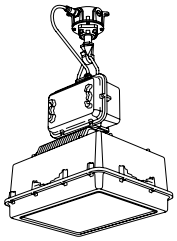


PM/__
Pendant mount/specify length in inches

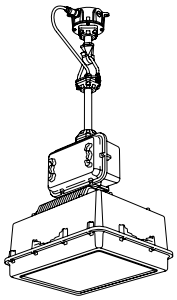
BOLT PATTERN DETAILS



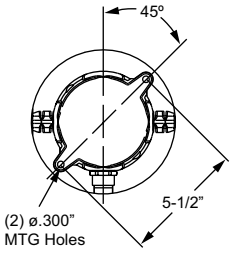
SM DETAIL



PH
Power hook

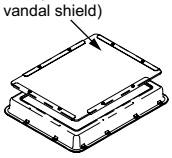


PPH/__
Power hook with pendant mount/
specify length in inches

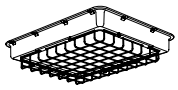


PH and PPH DETAIL

OPTIONS[3]



FVS Flush vandal shield[4]



WG Wireguard

TB Terminal block[5]

[3] All options shown attached to face of fixture.
[4] Not available with DPL.
[5] Not available with PH, PPH, or PM mounting options.

FINISH
Super durable polyester powder coat bonded to phosphate-free, multi-stage pretreated metal, meets and exceeds AAMA 2604 specifications for outdoor durability. All parts painted after fabrication to inhibit corrosion.

FINISH OPTIONS (Must specify)

BLK	Black (RAL #9004)
DBR	Dark bronze (Protech #PC21462)
GRAY	Standard gray (Protech #PC18367)
GRN	Green (RAL #6005)
SLV	Satin aluminum (RAL #9006)
WHT	White (RAL #9003)
RAL#____	Specify custom color

VOLTAGE (Must specify)

UNV	120-277V (standard)
480	480V (integral stepdown transformer)

LABELS & CERTIFICATIONS
UL listed as suitable for wet locations and Marine Outside Type.

NEMA 4X.

IP66 certified.[6]

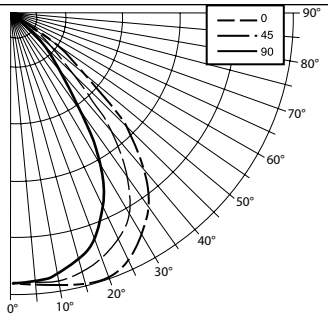
[6] **Door and ballast housing must be torqued to manufacturer's specifications. IP66 rated fixtures provide total dust protection and protection from high-pressure water jets from all directions. The primary electrical conduit system is a potential point of entry for contaminants into any fixture. Component failure due to contaminant intrusion through the primary entry is not covered under warranty. It is the installer's responsibility to ensure contaminants do not intrude into the fixture during any phase of the installation process. It is recommended that a seal-off fitting and compound, similar to Appleton EY fittings with Kwiko sealing compound, be employed at this point of penetration to insure system integrity.**

PHOTOMETRY INFORMATION

Catalog #: **ICEAL4-150S-FLD/CG1**

CANDLEPOWER DISTRIBUTION

Vertical Angle	Horizontal Angle 0°	45°	90°	Zonal Lumens
0°	5122.	5122.	5122.	
5°	5161.	5134.	5113.	489.9
15°	5337.	5118.	4843.	1444.2
25°	5211.	4781.	4130.	2194.6
35°	4510.	3831.	2374.	2272.0
45°	3056.	1851.	1017.	1519.2
55°	1153.	685.	293.	680.9
65°	139.	85.	27.	91.8
75°	15.	13.	6.	10.7
85°	0.	1.	1.	1.0
90°	0.	0.	0.	



LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixture
0 - 30	4129.	37.5	47.4
0 - 40	6401.	58.2	73.5
0 - 60	8601.	78.2	98.8
0 - 90	8704.	79.1	100.0
Total Luminaire:			
0 - 180	8704.	79.1	100.0

IES Spacing Criteria: End = 1.4
Diagonal = 1.3
Across = 1.1

ZONAL CAVITY COEFFICIENTS

	Ceiling	.80			.70			.50		
	Wall	.70	.50	.30	.70	.50	.30	.50	.30	.10
Room Cavity Ratio	0	.94	.94	.94	.92	.92	.92	.88	.88	.88
	1	.89	.87	.85	.87	.85	.83	.82	.80	.79
	2	.84	.80	.76	.82	.79	.75	.76	.73	.71
	3	.79	.73	.69	.78	.72	.68	.70	.67	.64
	4	.74	.67	.62	.73	.66	.62	.65	.61	.58
	5	.69	.62	.56	.68	.61	.56	.59	.55	.52
	6	.65	.57	.51	.64	.56	.51	.55	.50	.47
	7	.61	.52	.47	.59	.52	.46	.50	.46	.42
	8	.56	.47	.42	.55	.47	.42	.46	.41	.38
	9	.52	.43	.38	.51	.43	.37	.42	.37	.34
	10	.49	.39	.34	.48	.39	.34	.38	.33	.30

Effective Floor Cavity Reflectance = .20

LIGHT CONE QUICK CALCULATOR TABLES

Mounting Height (Ft)	FC at Edge of Cone	FC at Nadir	Cone Dia. (Feet) End	Across	Diag.
8	14.3	28.6	11.2	14.4	15.2
10	9.2	18.3	14.0	18.0	19.0
12	6.4	12.7	16.8	21.6	22.8
14	4.7	9.4	19.6	25.2	26.6
16	3.6	7.2	22.4	28.8	30.4
18	2.8	5.7	25.2	32.4	34.2
20	2.3	4.6	28.0	36.0	38.0

LUMINANCE DATA (cd/sq.m)

Vertical Angle	Horizontal Angle 0°	45°	90°
45°	38906.	23565.	12948.
55°	18096.	10751.	4599.
65°	2961.	1811.	575.
75°	522.	452.	209.
85°	0.	103.	103.
MAXIMUM BRIGHTNESS NOT MEASURED			

QUANTITY ESTIMATOR

Room Size	±50 fc.	±75 fc.	±100 fc.
30' x 30' (900 sq. ft.)	4	6	7
40' x 40' (1,600 sq. ft.)	7	11	15
50' x 50' (2,500 sq. ft.)	12	18	24

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

TEST REPORT INFORMATION

- Test Report#: 12447.0
- Date: 11/11/04
- Lamp Type: ICETRON 100-2P/QT150
- Lamp Quantity: 1
- Rated Lumens: 11000.

DESCRIPTION

- 1/100W Icetron Induction Lamp
- Sylvania Ballast #QT 1x150ICE/UNV-T
- 20" x 15" Area Light Luminaire
- Highly Specular Flood Optics with Clear Flat Glass Lens

Williams OUTDOOR LIGHTING
H.E. Williams, Inc. ■ Carthage, Missouri ■ www.**hewilliams**.com ■ 417-358-4065 ■ Fax: 417-358-6015

Information contained herein is subject to change without notice.