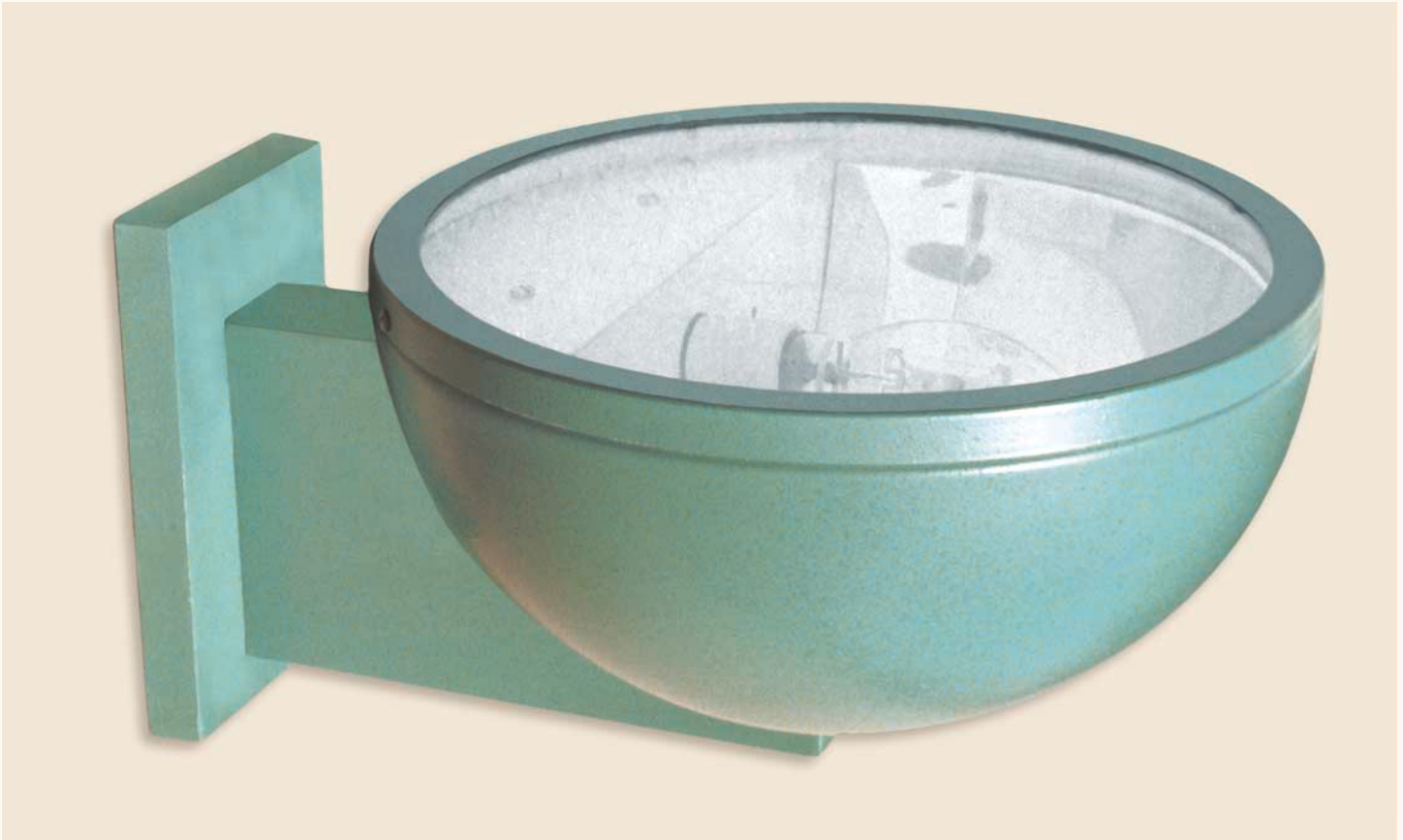


The Geonado

Available in LED

Bieber Illumination Group



**UL & CSA LISTED FOR WET LOCATIONS.
FACTORY TESTED BEFORE SHIPMENT.**

APPLICATION – The Geonado provides state-of-the-art indirect lighting or downlighting. It can be wall or column mounted.

HOUSING – Designer-quality heavy gauge spun aluminum .080" thick.

LENS – Impact-resistant flat tempered glass 1/8" thick.

OPTICS – Highly polished specular aluminum reflector.

SOURCES – The Geonado is available in incandescent up to 200W, in MH up to 175W, and in HPS up to 150W. Fluorescent is available up to single PL 42 or dual PL 13. Fluorescent, and HID sources 50W or less, are available only at 120V or 277V. Incandescent is available only at 120V.

ELECTRICAL COMPONENTS – All HID ballasts are CWA/HPF regulating auto-transformers, available in MH and HPS. All fluorescent ballasts are electronic type. Starting temperature for MH and fluorescent is -20°F, and HPS starts at -40°F. Maximum wattage is

175W MH, 150W HPS, 42W fluorescent, or 200W incandescent.

SOCKET – All HID sockets are glazed porcelain, medium base, with 600V nickel-coated contacts. Incandescent sockets are glazed porcelain, medium base, with 600V nickel-coated contacts. Fluorescent sockets are standard PL type.

ARM – Extruded aluminum construction. The back box is cast aluminum with a steel mounting plate. Custom arm lengths are available; please consult factory.

MOUNTING – The bracket system provided is suitable for either wall or column mount. Mounts on standard flush junction box (by others). Bieber can configure the Geonado for weatherproof mount in either uplight or downlight position; please see the Mount table.

FINISH – Thermoset polyester oven-baked powder coat, in any standard Bieber Lighting color. Custom colors are available to your specifications; consult factory.

LED information:

EncapLED, an IP66-rated and DLC listed LED module, combines optics and heat sink into one configurable unit which give precise light distribution. It allows us to do 10w., 30w. & 40w. increment adjustment on light output. The module has 115lm/W efficacy with LUXEON LUMILEDS TX CHIPS. Beside maximizing heat dissipation surface, we also utilize convection-based heat management which creates additional air flow around each chip. Unlike a big metal heat sink, where the temperature for the chips in the middle is higher than the rest, the heat of each EncapLED chip gets dissipated evenly. A better heat dissipation design keeps the junction temperature low and ultimately prolongs the life of the LED chips. Our modules are available in any of our fixtures designs, as well as in a simple retro-fit kit form for existing fixtures.


Bieber Illumination Group

Corporate, A/P & A/R office:
3455 Military Ave.
Los Angeles, CA. 90034
310-836-0621

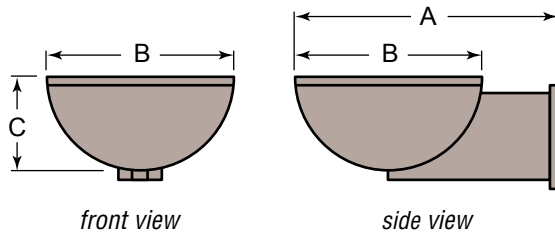
Sales & customer support
office: 310-451-5589
garybieber@yahoo.com

The Geonado

	1	2	3	4	5	6	7
FIXTURE	SIZE	SOURCE	VOLTS	LAMP	MOUNT	COLOR	OPTIONS
GDO	10	H2	4	L	2	DB	MT

Create a catalog number from the tables below. Example number: GDO – 10 – H2 – 4 – L – 2 – DB – MT

1 SIZE



	Size = 10
A	18"
B	14" diameter
C	7"
Maximum Wattage	175W MH 150W HPS 42W single PL fluorescent 13W dual PL fluorescent 200W incandescent

2 LIGHT SOURCE

	HPS	MH
35W	B1*	B2*
50W	C1*	C2*
70W	E1	E2
100W	H1	H2
150W	J1	J2
175W	•	K2

*see note in Voltage table
Pulse start also available; consult factory.

FLUORESCENT
X = single PL **Y** = dual PL
 (please specify wattage)
 EXAMPLE: Y13 = dual PL 13.

Z = INCANDESCENT
 Up to 200 W, medium base only.
 Lamps by others.

3 VOLTAGE

120V = 2	240V = 4	} Also available in Multi-Tap; see Options table
208V = 0	277V = 7	
480V = 8		Not available in Multi-Tap

NOTE:

- INCANDESCENT IN 120V ONLY.
- FLUORESCENT IN 120V OR 277V ONLY.
- 35W AND 50W HID SOURCES IN 120V OR 277V ONLY.

4 LAMP

L = with lamp
N = no lamp
L/MS = with Super Metal Halide lamp
 (available in 175W MH only)

NOTE: BIEBER DOES NOT FURNISH INCANDESCENT LAMPS.

5 MOUNT

1 = factory prepared for uplight.
2 = factory prepared for downlight.

6 COLOR

BK = Black
GR = Green
WH = White
DB = Dark Bronze
SL = Silver
GY = Gray
BU = Blue
VP = Verde Patina
CC = Custom Color

7 OPTIONS

MT = multi-tap transformer
 (HID sources 70W or greater only)
QR = quartz restrike
FV = international ballast;
 specify cycles & voltage

Bieber Illumination Group

* For more detailed information on mounting arrangements, and for wall mount, please see Pole/Arm section of catalog. For pole ordering information, please see Pole/Arm Section of catalog. If poles are not ordered along with fixtures, please specify mounting requirements when ordering fixtures. This document contains proprietary information of the Bieber Illumination Group and is trans-mitted in confidence. Any reproduction, disclosure or use of this document is expressly prohibited except as Bieber Illumination Group may agree in writing. Because of ongoing product refinement, Bieber Illumination Group reserves the right to change specifications without notice. For customized requirements, please consult factory.
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