

The Geodome Series

Available in LED

Bieber Illumination Group



Left: Geodome GloTop fixed arm mount.

Right: Geodome MB spider mount.

Center: Geodome AD fixed arm mount.

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

HOUSING – The housing is a weathertight unit fabricated from one-piece spun aluminum .080" thick, continuous heliarc welded at all seams. It features stainless steel external hardware. The decorative reveal is a standard feature. The Geodome is also available without the reveal; please see the Options table. All models feature a .125" ballast plate and a .250" reinforcing plate for arm attachment.

THE AD MODEL – Solid aluminum dome.

THE GLOTOP MODEL – The opal acrylic "GloTop" adds a touch of upscale design elegance.

THE MB MODEL – Has a heavy-duty cast aluminum "basket" over the translucent dome. The "GloTop" is opal acrylic. The standard GloTop color is white. Colored GloTops are available; please consult factory.

OPTICS – Segmented reflector with specular aluminum finish. Available in Types II, III, Front Throw and V, as well as factory-set rotatable Perimeter Throw; see the Optics table. The standard lamp mounting position is horizontal. Vertical lamp mounting position (with convex lens) is available; please see the Options table.

LENS AND DOOR FRAME – Standard lens is high-impact 1/8" clear, tempered, flat glass. Options include convex tempered glass lens or convex polycarbonate lens. The door frame is spun from .080" thick aluminum. It is secured by two stainless steel captive screws for easy maintenance, and is fully gasketed. The door opens on heavy-duty radius hinges.

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.

FIXTURE ARM – Offered in three mounting styles: yoke mount (two legs), spider mount (four legs), and fixed arm mount.

– **YOKE & SPIDER MOUNT** – Heavy-duty aluminum shafts are welded to the door frame and to the slip fitter. A safety cable, to tether the top when open for servicing, is standard equipment.

– **FIXED ARM** – The standard fixed arm style is bolt-on, a one piece rectangular extrusion 6" high x 2" wide x 10" long x .120" thick. Two 3/8" bolts with nuts and washers are provided. Available with the super-fast Easy Mount slip-fit hanger arm (see page 3); see the Options table, and please specify the OD of your pole or tenon.

ELECTRICAL COMPONENTS – All ballasts are CWA/HPF regulating auto-transformers, available in HPS and MH. The starting temperature for HPS is -40°F, and MH starts at -20°F. Maximum wattage is 1000W (reduced envelope). If no specific voltage is specified and multi-tap is given, Bieber will wire fixture(s) at 277V as the default.

SOCKET – Glazed porcelain, mogul base, rated to 600V.

PHOTOMETRICS – See pages 54 and 55: use Figures M, O, and Q for Size 30 1000W with horizontal lamp; use Figures G and D for Size 30 1000W with vertical lamp; use Figures L, N, and P for all other sizes with horizontal lamp; use Figures C and F for all other sizes with vertical lamp.

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

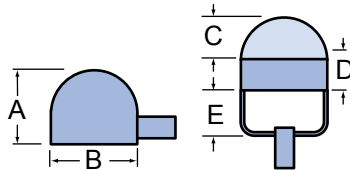
The Geodome Series

	1	2	3	4	5	6	7	8	9
FIXTURE	SIZE	MODEL	SOURCE	VOLTS	LAMP	OPTICS	MOUNT	COLOR	OPTIONS
GEO	20	AD	P2	2	L	3	A	DB	SC, VL, PC

Create a catalog number from the tables below. Example number: GEO – 20 – AD – P2 – 2 – L – 3 – A – DB – SC, VL, PC

1 SIZE

Left: Fixed arm mount
Right: GloTop model, yoke mount



MODEL AD ONLY

MODELS GT & MB ONLY

	Size = 10	Size = 20	Size = 30	Size = 40	Size = 50	Size = 60
A	18"	20"	20-1/2"			
B	18"	26"	29"	18"	26"	28"
C				9"	12"	14"
D				6"	9-1/2"	10"
E	9"	9"	9"	9"	9"	9"
EPA	1.2	2.0	2.0	3.2	2.2	2.5
Max Watts	175MH 150HPS	400	1000	175MH 150HPS	250	400

2 MODEL

AD = solid aluminum dome

GT = "Glo-Top" white opal translucent dome

MB = aluminum basket over "Glo-Top"

3 SOURCE

	HPS	MH	
70W	E1	E2	pulse start also available; consult factory
100W	H1	H2	
150W	J1	J2	
175W	•	K2	
250W	N1	N2	
400W	P1	P2	
1000W	T1*	T2*	*reduced envelope

4 VOLTAGE

120V = **2**
208V = **0**
240V = **4**
277V = **7**

Available in Multi-Tap: see Options table

480V = **8** *Not available in Multi-Tap*

5 LAMP

L = with lamp
N = no lamp
L/MS = with Super Metal Halide lamp

6 OPTICS

8H2 = Perimeter Throw, horizontal lamp, rotated for Type II distribution.
8H3 = Perimeter Throw, horizontal lamp, rotated for Type III distribution.
8H4 = Perimeter Throw, horizontal lamp, rotated for Front Throw distribution.

7 MOUNTING ARRANGEMENT*

NOTE: EXCEPT FOR POST-TOP, THE FIXTURE WILL BE FIXED-ARM STYLE UNLESS SPIDER MOUNT IS SPECIFIED.

A = **E** = **H** = Other (consult factory)
B = **I** = Post-top (Always spider or yoke mount; see Options table.)
C = **F** =
D = **G** = (wall mount)

8 COLOR

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

9 OPTIONS

VL = vertical lamp (with GC or PL)
GC = glass convex lens
PL = polycarbonate convex lens
SM = spider mount (4 legs)
YM = yoke mount (2 legs)
SF = single in-line fuse
DF = double in-line fuse
MT = multi-tap transformer
PC = photo cell
QR = quartz restrrike
SC = safety cable
EM = Easy Mount arm
FV = international ballast; specify voltage & cycles

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* 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 transmitted 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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