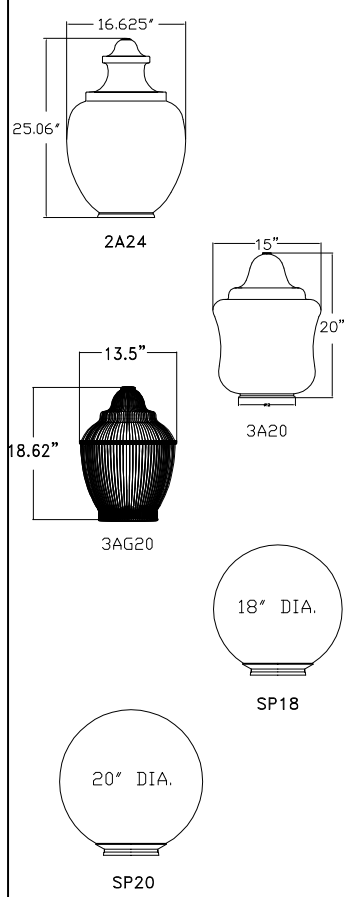
BEACON PRODUCTS

Acorn & Spheres (LED)

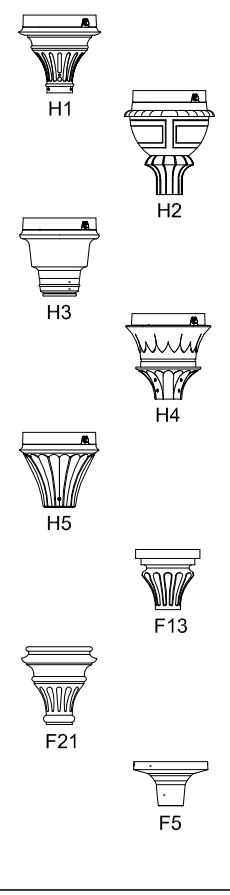
Project Information	
Name / Location:	/
Type / Quantity:	/
Sold to:	
PO#:	

Approvals

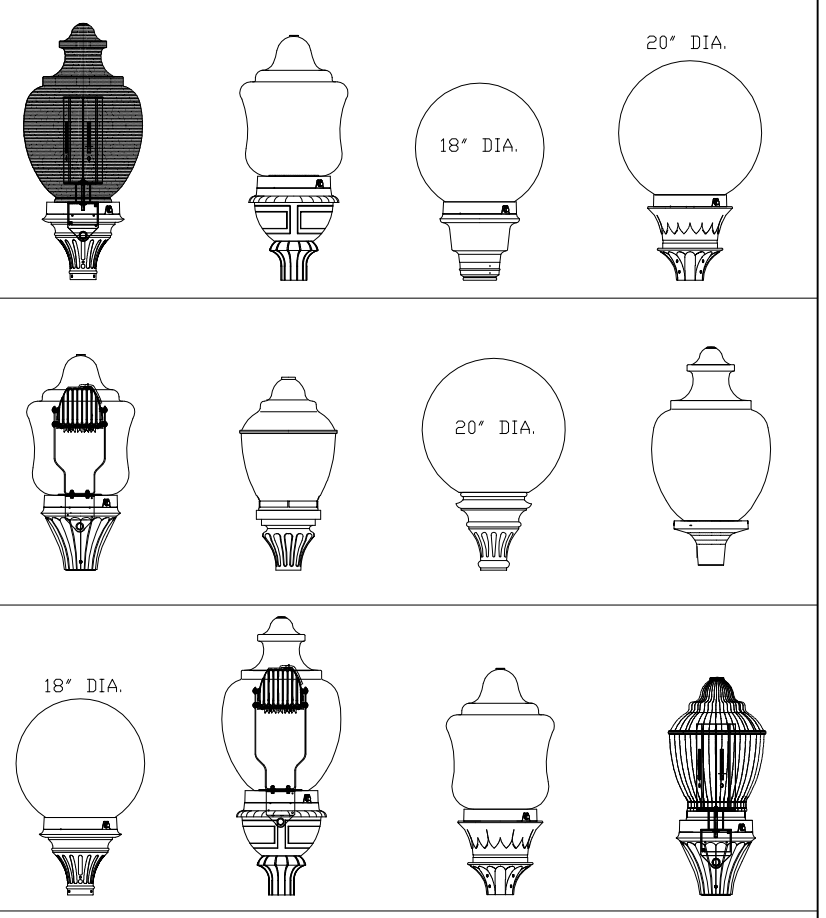
Model



Fitter



Example Configurations



Ordering Example:

3A20 /P / CT / H3 / LED / UNV / IND5 / BB / PEC / PT / BZ

___ /___ /___ /___ /___ /___ /___ /___ /___ /___ /___

model	
2A24	
3A20	
3AG20	
SP18	
SP20	

Lens material	
A	Acrylic (Impact Resistant)
P	polycarbonate
G	glass 3AG20 only

Lens finish	
C	clear
W	white
CT	clear textured
FT	frosted textured
WT	white textured
R3	refractive type III
R5	refractive type V

Source	
LED30	30W LED
LED60	60W LED
LED35	35W LED
LED55	55W LED

Fitter	
H1	mediterranean
H2	london
H3	monaco
H4	park lane
H5	piedmont
F5	f5
F13	f13
F21	f21

Optics	
DIR	direct type II, III,
DIR	IV & V

Voltage	
UNV	120-277V
347V	
480V	

style options	
FIN	finial
BB	brass band
FBB	finial and brass band

Electrical Options	
PEC	photocell, button style
LSP	lightning surge Protec.

Finish	
BB	black
BZ	bronze
BG	green
BW	white
BY	gray
RAL	RAL-
OTHER	

Consult factory for premium and verde finishes. Custom colors available.

mounting	
PT	post top
PT	pendant mount

rev (11/21/2011) / JA

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Specifications

CONSTRUCTION:
All cast aluminum parts shall be low copper alloy A356. All extruded aluminum parts shall be alloy 6061-T6, 6063-T5 or equal.
The decorative globe shall be one piece and made from molded acrylic, polycabonate and glass (3AG20only). The prismatic decorative globe shall be a one piece borosilicare glass casting and topped with an optional decorative cast aluminum finial. The globe shall be gasketed underneath and be attached to the fitter by means of three equally spaced and concealed set screws. With the "H" fitters, the globe does not need to be removed to access lamp or electrical assembly.

Housing / Fitter:
The bottom housing / fitter shall be a cast aluminum, decorative fitter designed to accommodate the LED driver assembly and shall mount to 3"OD x 3"H tenon and secured with stainless steel set screws. For the "H" type fitters, the housing hinges open to allow access to the trayed electrical assemblyand removable optical plug.

Electrical Assembly:

Color Rendering Index (CRI): Luminaire shall have a minimum CRI of 70.

Off State Power Comsumption: The power draw of the luminare including PE devices must be zero watts when the off state.

Operating Environment: Shall be able to operate normally in temperatures from -20ºC to 25ºC.

Cooling System: Shall not consist of any fan, pump or liquids and must be resistant to debris buildup.

LED heat sink: The LED module and heat sink shall be removable and up-gradable. The drivers shall be mounted on a removable plate and protected by a 10,000 Amp transient surge protector. The heat sink shall be 356 cast aluminumand be fitted with 24 Cree XPG / 130 lumens LEDs.

LED Array: The 24 LED Array shall be 60 watts maximum and be provided with Type II, III, IV or V distributions. Each LED shall have one optical lens. The Heat Sink and LED Array shall be mounted on a mounting plate and pointed downward. Aiming of individual LEDs will not be accepted.

LED Array (Tower): The 28 LED Array shall be 55 watts maximum and be provided with 120 degrees lenses. The total absolute lumens shall be a minimum of 2397 lumens..

LED Array board: Board will mounted to the heat sink using 12-#4-40 screws to ensure contact to the thermal padand heat sink. Use of thermal greasewill not be allowed. The board will be provided with two circuits of 12 LEDs each. Each circuit will be supplied with one driver for a total of two drivers for two circuits. If one drive fails the other driver shall still light up one circuit of 12-LEDs.

Lumen Depreciation of LED leght: Must comply with IESNA LM-80.

Source: Led module shall deliver at least 70% of initial lumens, when installed for a minimum of 70,000 hours.

Light Distribution Shall be: Street ClassificationLighting Distribution Pattern Roadway / AreaType II, III, IV & V.

Power Supply/Power Requirements: U.L. UL1310, Class 2 and UL48 compliant.

Power factor: Shall have a power factor not less than 90% at full load.

Operating Voltage: 120 - 277 Volts. 347V & 480V.

Driver Operating temperature: Shall operate between -30ºC and 60ºC.

Driver frequency: Output operating frequency 47 to 63 Hz.

Interference: Shall meet FCC 47 CFR Part 2, part 15 and Cispr PUB, Class B.

Noise: Shall have a Class A sound rating.

Protection: Over-voltage, Over-current and Short-circuit protection: Auto-recovery.

Startup: Must be instant restart.

Surge Protector:
Transient over voltage protection shall be provided and rated at 10,000 Amps using the industry standard 8/20 pSec wave.

File/Test Requirements: Provide copy of UL or CSA certification as recognized component

Warranty:
Beacon luminaires feature a 5 year limited warranty on all components of the retro-fit unit. The warranty period shall start at the date of shipment. The manufacturer shall supply contact information to the owner for replacements as well as a written confirmation from the manufacturer confirming the warranty terms. Warranty components must be readily available within normal lead times. Warranty must include parts, labor and shipping.

Fasteners:
All fasteners shall be stainless steel. When tamper resistant fasteners are required, spanner HD (snake eye) style shall be provided (special tool required, consult factory).

Finish:
Finish shall be Beacote III polyester powdercoat electrostatically applied and thermocured. Luminaires shall be subjected to iron phosphate chemical pre-treatment prior to painting by immersion process.

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