rev (11/21/2007) JA

PIE31 (LED) (formerly AL-08531)

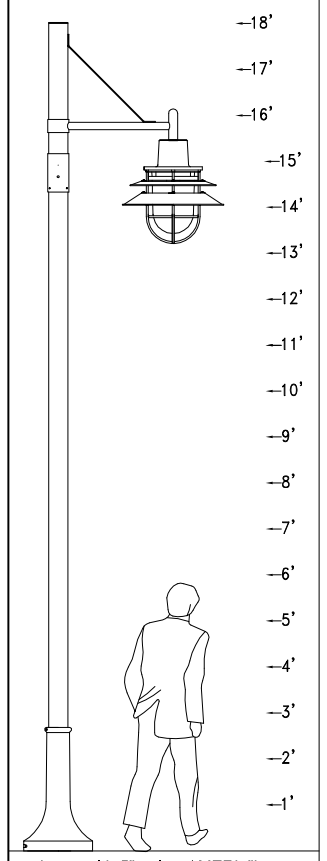
Large Pierwalk Luminaire

Weight: 50.0 lbs | **EPA**: 1.77 sqft

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

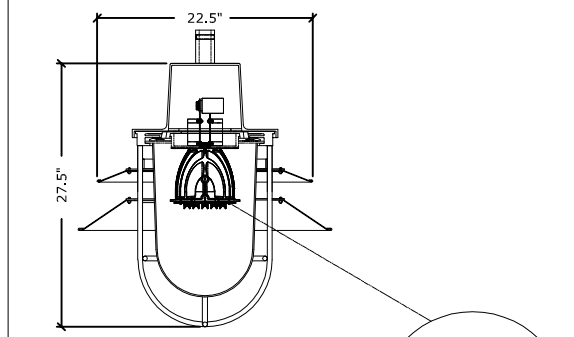
Approvals

Perspective

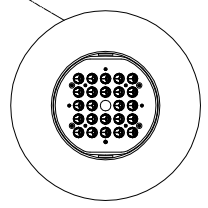


shown with 5" pole w/ MERL "Large Meridian" cover & Strut arm

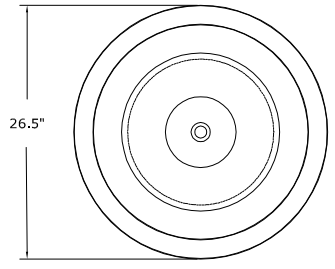
Luminaire Details



Internal Details

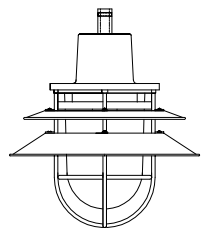


LED Engine

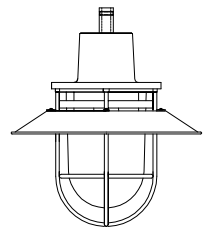


Top View

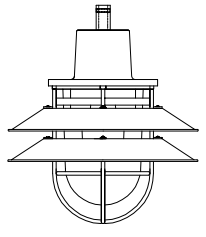
Style Options



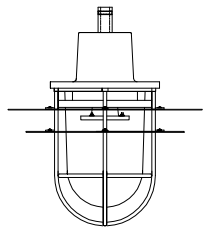
UQS [2]



SS



EQS [2]



UQD

Definitions:
UQS - Unequal Shades
EQS - Equal Shades
SS - Single Shade
UQD - Unequal Discs

Ordering Example:

PIE31 / PBC / 24G-60 / UNV / PEC / PM / UQS / BB

PIE31 ___ / ___ / ____ / ___ / ___ / ____ / _____ / ____

Lens Material	
P	Polycarbonate

Lens Profile	
B	Bullet

Lens Finish	
C	Clear
F	Frosted
W	White

engine-watts	
24G-30	30w LED array
24G-60	60w LED array
24G-80	80w LED array
OTHER	

Voltage	
UNV	120-277V
347V	
480V	

Electrical Options	
PEC	photocell
1PF	single power feed
2PF	dual power feed
DD	0-10V dimming drivers

Mount Options	
PT	post top
PM	pendant mount

Style Options	
UQS	Unequal Shades[2]
EQS	Equal Shades[2]
SS	Single Shade
UQD	Unequal Discs

Finish	
BB	Basic Black
BZ	Basic Bronze
BG	Basic Green
BW	Basic White
BY	Basic Gray
PRE	Premium (Specify)
RAL	RAL color

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

Notes:
1: Consult Factory
2: UQS and EQS shades, not reconmended to be used with LED engines.

2041 58th Avenue Circle East | Bradenton, FL 34203 | PH: 941.755.6694 | FX: 941.751.5535 | www.beaconproducts.com

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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 fixture ballast housing shall be a one piece casting. The decorative shade and disc elements shall be mechanically fastened to the cage assembly. The interior shall be sealed for weathertight operation.

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 80 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 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.

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.

Installation:
When mounted to an arm supplied by Beacon Products, the fixture shall be permanently attached to the arm assembly with a stainless steel through pin and three stainless steel set screws.

Service:
Access to the optical and electrical components shall be made possible though a twist-lock globe (lens) and optical assembly.

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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