



Transmittal

Swaney Lighting Associates
 15 Pleasant Hill Rd
 Scarborough ME 04074
 Phone: (207) 883-7100
From: DAVE CHARRON

Project Maine Verterans Home
Quote# SLA14-25041
Location Augusta ME
 Contact:

ATTACHED WE ARE SENDING YOU 0 COPIES OF THE FOLLOWING ITEMS:

- | | | |
|-----------------------------------|---|--------|
| <input type="checkbox"/> Drawings | <input type="checkbox"/> Specifications | Other: |
| <input type="checkbox"/> Prints | <input type="checkbox"/> Information | |
| <input type="checkbox"/> Plans | <input type="checkbox"/> Submittals | |

THESE ARE TRANSMITTED FOR:

- | | | |
|--|---|---------------------------------|
| <input type="checkbox"/> Prior Approval | <input type="checkbox"/> Resubmittal for Approval | <input type="checkbox"/> Record |
| <input type="checkbox"/> Approval | <input type="checkbox"/> Corrections | Bids due on: |
| <input type="checkbox"/> Approval as Submitted | <input type="checkbox"/> Your Use | Other: |
| <input type="checkbox"/> Approval as Noted | <input type="checkbox"/> Review and Comment | |

Type	MFG	Part
SL21S	BEACON PRODUCTS	CAP-21-24NB-55-T2-UNV-3RNW-5K-CXX
SL51L	BEACON PRODUCTS	CAP-26-60NB-136-T5QW-UNV-3RNW-5K-CXX
SL31L	BEACON PRODUCTS	CAP-26-36NB-80-T3-UNV-3RNW-5K-CXX
SL31S	BEACON PRODUCTS	CAP-21-24NB-55-T3-UNV-3RNW-5K-CXX
SL41S	BEACON PRODUCTS	CAP-21-24NB-55-T4-UNV-3RNW-5K-CXX
ARM	BEACON PRODUCTS	AA39-S-5-B-P-CXX
P20	BEACON PRODUCTS	SHO5-S-20-5M-OT-DOMU5-CXX
P16	BEACON PRODUCTS	SHO5-S-16-5M-OT-DOMU5-CXX



Job Name:
Maine Veterans Home

Catalog Number:
CAP-21-24NB-55-T2-UNV-3RNW-5K-CXX

Notes:

Type:

SL21S

SLA14-25041



Ordering
rev 07.19.2012

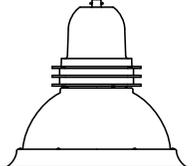
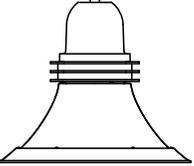
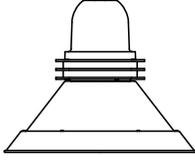
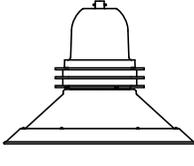
Type:

Ordering Code:

Job Name:

Notes:

URBAN high performance area light

Dimensions	
<p>CAP</p>  <p>21" - CAP 26" - CAP H: 18.75" H: 21.75" EPA: 1.04 ft² EPA: 1.39 ft² 35 lbs 40 lbs</p> <p><i>shown with 3RNW rings</i></p>	<p>MAR</p>  <p>21" - MAR 26" - MAR H: 18.9" H: 21.3" EPA: 1.00 ft² EPA: 1.25 ft² 35 lbs 40 lbs</p> <p><i>shown with 3RNW rings</i></p>
<p>MRDS</p>  <p>21" - MRDS 26" - MRDS H: 17.9" H: 21" EPA: 1.00 ft² EPA: 1.25 ft² 35 lbs 40 lbs</p> <p><i>shown with 3RNW rings</i></p>	<p>MRSS</p>  <p>26" - MRSS H: 18" EPA: 1.17 ft² 40 lbs</p> <p><i>shown with 3RNW rings</i></p>

ORDERING EXAMPLE: CAP-21 / 36NB-80 / T2 / UNV / PEC / 3RNW / MT

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model size	engine-watts	optics	voltage	electrical options	style options	color
CAP-21	24NB-27	T2 type II	UNV 120-277V	PEC button photocell <i>(specify voltage)</i>	3RNW three cast rings	BB black
MRSS-21	24NB-55	T3 type III	347V			BZ bronze
MRDS-21	36NB-80	T4 type IV	480V	2PF dual power feed		BW white
MAR-21		T5R rectangular T5QW square wide	12VDC <i>(consult factory)</i>	standard electrical options LifeShield™ thermal protection		BG green
CAP-26	24NB-27	T5QM square medium		20K - surge protection		BY gray
MRSS-26	24NB-55	T5W round wide		dimming drivers		MB metallic bronze
MRDS-26	36NB-80					___ RAL
MAR-26	48NB-110					___ other
	60NB-136					

Power/Lumens & Distributions

Engine	nominal wattage	lumen output (5k) varies by optic	delivered LPW	TM21 reported L95/85C	TM21 calculated L70/85C
24NB	27	2752-3014	105-115	60,000	215,000
24NB	55	5125-5615	93-103	60,000	215,000
36NB	80	7680-8215	93-103	60,000	215,000
48NB	110	10240-10950	93-103	60,000	215,000
60NB	136	12800-14100	93-103	60,000	215,000

TM21 is the framework for taking LM-80 data and making useful LED lifetime projections. Reported and calculated lifetimes shown are based on hours at the time of this printing. For current Reported and Calculated hours please contact factory of Beacon's web site.



Amber LEDs available (consult factory for watts and lumens)

**URBAN** high performance area light**Specification**

rev 07.19.2012

HOUSING & LED THERMAL MANAGEMENT: The drivers shall be located in the top cast housing and shall be accessible without tools by hinging the lower shade assembly. The driver and all electrical components shall be on a tray. The lower shade shall be made from a one-piece aluminum spinning. The LED bezel assembly shall be attached to a one piece aluminum heat sink to provide direct-heat exchange between the LED light engine and the cool outdoor air. The Housing is designed for LED thermal management without the use of metallic screens, cages, or fans. The top casting shall be able to be pendent mounted in place with a stainless steel safety pin and then permanently held in place with four stainless steel bolts.

BEZEL OPTICAL SYSTEM: Each Beacon luminaire is supplied with an Optical one piece cartridge system consisting of an LED engine, LED lamps, optics, gasket and stainless steel bezel. The cartridge is held together with internal brass standoffs soldered to the board so that it can be field replaced as a one piece optical system. A two-piece die cut silicone and polycarbonate foam gasket ensures a weather-proof seal around each individual LED and allows the luminaire to be rated for high-pressure hose down applications.

The optical cartridge is secured to the aluminum heat sink with fasteners to ensure thermal conductivity. The optics are held in place without the use of adhesives and the complete assembly is gasketed for high pressure hose down cleaning. The cartridge assembly is available in various lighting distributions using TIR designed Acrylic optical lenses over each LED.

Printed Circuit Board (PCB): Aluminum thermal clad board with 0.062" thick aluminum base layer "high temperature" HT-06503 or equivalent (subject to change) dielectric (0.003" thick, thermal conductivity of 2.2 W/MK, UL RTI of 140°C) 0.0014" thick copper circuit layer Circuit layer designed with copper pours to minimize thermal impedance across dielectric. Board shall be supplied with QPAD-3 fiberglass reinforced thermal pad 0.005" thick thermal conductivity of 2.0 W/Mk. Continuous use temperature of 180°C UL94 V-0. Board will be mounted to the heat sink using 12 #4-40 screws to ensure contact with thermal pad and heat sink. Use of thermal grease will not be allowed.

LIFESHIELD™ CIRCUIT: Thermal circuit shall protect the luminaire from excessive temperature by interfacing with its 0-10V dimmable drivers to reduce drive current as necessary. The factory-preset temperature limits shall be designed to ensure maximum hours of operation to assure L70 rated lumen maintenance. The device shall activate at a specific, factory-preset temperature, and progressively reduce power over a finite temperature range in recognition of the effect of reduced current on the internal temperature and longevity of the LEDs and other components. A luminaire equipped with the device may be reliably operated in any ambient temperature up to 55°C (131°F).

The thermal circuit will allow higher maximum wattages than would be permissible on an unregulated luminaire (if some variation in light output is permissible), without risk of premature LED failure.

Operation shall be smooth and undetectable to the eye. Thermal circuit shall directly measure the temperature at the LED solder point.

Thermal circuit shall consist of surface mounted components mounted on the LED engine (printed circuit board). For maximum simplicity and reliability, the device shall have no dedicated enclosure, circuit board, wiring harness, gaskets, or hardware. Device shall have no moving parts, and shall operate entirely at low voltage (NEC Class 2). The device shall be located in an area of the luminaire that is protected from the elements.

Thermal circuit shall be designed to "fail on", allowing the luminaire to revert to full power in the event of an interruption of its power supply, or faulty wiring connection to the drivers.

Device shall be able to co-exist with other 0-10V control devices (occupancy sensors, external dimmers, etc.). The device will effectively control the solder point temperature as needed; otherwise it will allow the other control device(s) to function unimpeded.

Electrical: Luminaires are equipped with an LED driver that accepts 100V through 277V, 50 Hz to 60 Hz (UNIV), or a driver that accepts 347V or 480V input. Power factor is .92 at full load. All electrical components are rated at 50,000 hours at full load and 40°C ambient conditions per MIL-217F Notice 2. Optional 0 to 10 volt dimming drivers are available upon request. All driver components supplied are Component-to-component wiring within the luminaire will carry no more than 80% of rated current and is listed by UL for use at 600VAC at 50°C or higher. Plug disconnects are listed by UL for use at 600 VAC, 15A or higher.

SURGE PROTECTOR: The onboard surge protector shall be a UL recognized component for the United States and Canada and have a surge current rating of 10,000 Amps using the industry standard 8/20 pSec wave. The LSP shall have a clamping voltage of 320V and surge rating of 372J. The case shall be a high-temperature, flame resistant plastic enclosure.

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).

AGENCY CERTIFICATION: The luminaire shall bear a CSA label and be marked suitable for wet locations.

WARRANTY: Beacon luminaires feature a 5 year limited warranty. Beacon LED luminaires with LED arrays feature a 5 year limited warranty covering the LED arrays. LED drivers are covered by a 5 year limited warranty. PIR sensors carry a 5 year limited warranty from the sensor manufacturer. See Warranty Information on www.beaconproducts.com complete details and exclusions.



Job Name:
Maine Veterans Home

Catalog Number:
CAP-26-60NB-136-T5QW-UNV-3RNW-5K-CXX

Notes:

Type:

SL51L

SLA14-25041



Ordering
rev 07.19.2012

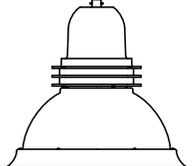
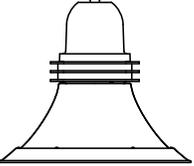
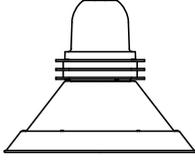
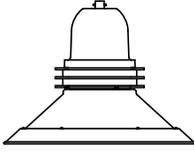
Type:

Ordering Code:

Job Name:

Notes:

URBAN high performance area light

Dimensions	
<p>CAP</p>  <p>21" - CAP 26" - CAP H: 18.75" H: 21.75" EPA: 1.04 ft² EPA: 1.39 ft² 35 lbs 40 lbs</p> <p><i>shown with 3RNW rings</i></p>	<p>MAR</p>  <p>21" - MAR 26" - MAR H: 18.9" H: 21.3" EPA: 1.00 ft² EPA: 1.25 ft² 35 lbs 40 lbs</p> <p><i>shown with 3RNW rings</i></p>
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ORDERING EXAMPLE: CAP-21 / 36NB-80 / T2 / UNV / PEC / 3RNW / MT

model size	engine-watts	optics	voltage	electrical options	style options	color
CAP-21	24NB-27	T2 type II	UNV 120-277V	PEC button photocell (specify voltage)	3RNW three cast rings	BB black
MRSS-21	24NB-55	T3 type III	347V	2PF dual power feed standard electrical options LifeShield™ thermal protection 20K - surge protection dimming drivers		BZ bronze
MRDS-21	36NB-80	T4 type IV	480V			BW white
MAR-21		T5R rectangular T5QW square wide	12VDC (consult factory)			BG green
CAP-26	24NB-27	T5QM square medium				BY gray
MRSS-26	24NB-55	T5W round wide				MB metallic bronze
MRDS-26	36NB-80					___ RAL
MAR-26	48NB-110 60NB-136					___ other

Power/Lumens & Distributions

Engine	nominal wattage	lumen output (5k) varies by optic	delivered LPW	TM21 reported L95/85C	TM21 calculated L70/85C
24NB	27	2752-3014	105-115	60,000	215,000
24NB	55	5125-5615	93-103	60,000	215,000
36NB	80	7680-8215	93-103	60,000	215,000
48NB	110	10240-10950	93-103	60,000	215,000
60NB	136	12800-14100	93-103	60,000	215,000

Amber LEDs available (consult factory for watts and lumens)

TM21 is the framework for taking LM-80 data and making useful LED lifetime projections. Reported and calculated lifetimes shown are based on hours at the time of this printing. For current Reported and Calculated hours please contact factory of Beacon's web site.

**URBAN** high performance area light**Specification**

rev 07.19.2012

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BEZEL OPTICAL SYSTEM: Each Beacon luminaire is supplied with an Optical one piece cartridge system consisting of an LED engine, LED lamps, optics, gasket and stainless steel bezel. The cartridge is held together with internal brass standoffs soldered to the board so that it can be field replaced as a one piece optical system. A two-piece die cut silicone and polycarbonate foam gasket ensures a weather-proof seal around each individual LED and allows the luminaire to be rated for high-pressure hose down applications.

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Printed Circuit Board (PCB): Aluminum thermal clad board with 0.062" thick aluminum base layer "high temperature" HT-06503 or equivalent (subject to change) dielectric (0.003" thick, thermal conductivity of 2.2 W/MK, UL RTI of 140°C) 0.0014" thick copper circuit layer Circuit layer designed with copper pours to minimize thermal impedance across dielectric. Board shall be supplied with QPAD-3 fiberglass reinforced thermal pad 0.005" thick thermal conductivity of 2.0 W/Mk. Continuous use temperature of 180°C UL94 V-0. Board will be mounted to the heat sink using 12 #4-40 screws to ensure contact with thermal pad and heat sink. Use of thermal grease will not be allowed.

LIFESHIELD™ CIRCUIT: Thermal circuit shall protect the luminaire from excessive temperature by interfacing with its 0-10V dimmable drivers to reduce drive current as necessary. The factory-preset temperature limits shall be designed to ensure maximum hours of operation to assure L70 rated lumen maintenance. The device shall activate at a specific, factory-preset temperature, and progressively reduce power over a finite temperature range in recognition of the effect of reduced current on the internal temperature and longevity of the LEDs and other components. A luminaire equipped with the device may be reliably operated in any ambient temperature up to 55°C (131°F).

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Device shall be able to co-exist with other 0-10V control devices (occupancy sensors, external dimmers, etc.). The device will effectively control the solder point temperature as needed; otherwise it will allow the other control device(s) to function unimpeded.

Electrical: Luminaires are equipped with an LED driver that accepts 100V through 277V, 50 Hz to 60 Hz (UNIV), or a driver that accepts 347V or 480V input. Power factor is .92 at full load. All electrical components are rated at 50,000 hours at full load and 40°C ambient conditions per MIL-217F Notice 2. Optional 0 to 10 volt dimming drivers are available upon request. All driver components supplied are Component-to-component wiring within the luminaire will carry no more than 80% of rated current and is listed by UL for use at 600VAC at 50°C or higher. Plug disconnects are listed by UL for use at 600 VAC, 15A or higher.

SURGE PROTECTOR: The onboard surge protector shall be a UL recognized component for the United States and Canada and have a surge current rating of 10,000 Amps using the industry standard 8/20 pSec wave. The LSP shall have a clamping voltage of 320V and surge rating of 372J. The case shall be a high-temperature, flame resistant plastic enclosure.

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).

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Job Name:
Maine Veterans Home

Catalog Number:
CAP-26-36NB-80-T3-UNV-3RNW-5K-CXX

Notes:

Type:

SL31L

SLA14-25041



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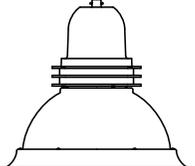
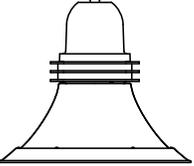
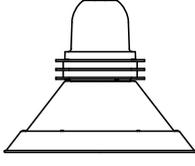
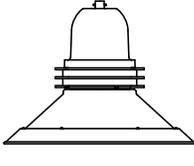
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URBAN high performance area light

Dimensions	
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MAR-26	48NB-110 60NB-136					___ RAL ___ other

Power/Lumens & Distributions

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WARRANTY: Beacon luminaires feature a 5 year limited warranty. Beacon LED luminaires with LED arrays feature a 5 year limited warranty covering the LED arrays. LED drivers are covered by a 5 year limited warranty. PIR sensors carry a 5 year limited warranty from the sensor manufacturer. See Warranty Information on www.beaconproducts.com complete details and exclusions.



Job Name:
Maine Veterans Home

Catalog Number:
CAP-21-24NB-55-T3-UNV-3RNW-5K-CXX

Notes:

Type:

SL31S

SLA14-25041



Ordering
rev 07.19.2012

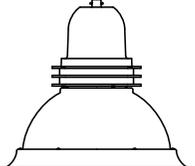
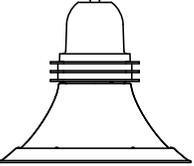
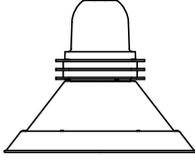
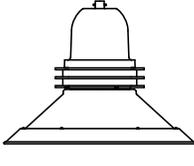
Type:

Ordering Code:

Job Name:

Notes:

URBAN high performance area light

Dimensions	
<p>CAP</p>  <p>21" - CAP 26" - CAP H: 18.75" H: 21.75" EPA: 1.04 ft² EPA: 1.39 ft² 35 lbs 40 lbs</p> <p><i>shown with 3RNW rings</i></p>	<p>MAR</p>  <p>21" - MAR 26" - MAR H: 18.9" H: 21.3" EPA: 1.00 ft² EPA: 1.25 ft² 35 lbs 40 lbs</p> <p><i>shown with 3RNW rings</i></p>
<p>MRDS</p>  <p>21" - MRDS 26" - MRDS H: 17.9" H: 21" EPA: 1.00 ft² EPA: 1.25 ft² 35 lbs 40 lbs</p> <p><i>shown with 3RNW rings</i></p>	<p>MRSS</p>  <p>26" - MRSS H: 18" EPA: 1.17 ft² 40 lbs</p> <p><i>shown with 3RNW rings</i></p>

ORDERING EXAMPLE: CAP-21 / 36NB-80 / T2 / UNV / PEC / 3RNW / MT

<input type="text"/>						
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model size	engine-watts	optics	voltage	electrical options	style options	color
CAP-21	24NB-27	T2 type II	UNV 120-277V	PEC button photocell <i>(specify voltage)</i>	3RNW three cast rings	BB black
MRSS-21	24NB-55	T3 type III	347V			BZ bronze
MRDS-21	36NB-80	T4 type IV	480V	2PF dual power feed		BW white
MAR-21		T5R rectangular T5QW square wide	12VDC <i>(consult factory)</i>	standard electrical options LifeShield™ thermal protection		BG green
CAP-26	24NB-27	T5QM square medium		20K - surge protection		BY gray
MRSS-26	24NB-55	T5W round wide		dimming drivers		MB metallic bronze
MRDS-26	36NB-80					MT metallic titanium
MAR-26	48NB-110 60NB-136					___ RAL ___ other

Power/Lumens & Distributions

Engine	nominal wattage	lumen output (5k) varies by optic	delivered LPW	TM21 reported L95/85C	TM21 calculated L70/85C
24NB	27	2752-3014	105-115	60,000	215,000
24NB	55	5125-5615	93-103	60,000	215,000
36NB	80	7680-8215	93-103	60,000	215,000
48NB	110	10240-10950	93-103	60,000	215,000
60NB	136	12800-14100	93-103	60,000	215,000

TM21 is the framework for taking LM-80 data and making useful LED lifetime projections. Reported and calculated lifetimes shown are based on hours at the time of this printing. For current Reported and Calculated hours please contact factory of Beacon's web site.



Amber LEDs available (consult factory for watts and lumens)

**URBAN** high performance area light**Specification**

rev 07.19.2012

HOUSING & LED THERMAL MANAGEMENT: The drivers shall be located in the top cast housing and shall be accessible without tools by hinging the lower shade assembly. The driver and all electrical components shall be on a tray. The lower shade shall be made from a one-piece aluminum spinning. The LED bezel assembly shall be attached to a one piece aluminum heat sink to provide direct-heat exchange between the LED light engine and the cool outdoor air. The Housing is designed for LED thermal management without the use of metallic screens, cages, or fans. The top casting shall be able to be pendent mounted in place with a stainless steel safety pin and then permanently held in place with four stainless steel bolts.

BEZEL OPTICAL SYSTEM: Each Beacon luminaire is supplied with an Optical one piece cartridge system consisting of an LED engine, LED lamps, optics, gasket and stainless steel bezel. The cartridge is held together with internal brass standoffs soldered to the board so that it can be field replaced as a one piece optical system. A two-piece die cut silicone and polycarbonate foam gasket ensures a weather-proof seal around each individual LED and allows the luminaire to be rated for high-pressure hose down applications.

The optical cartridge is secured to the aluminum heat sink with fasteners to ensure thermal conductivity. The optics are held in place without the use of adhesives and the complete assembly is gasketed for high pressure hose down cleaning. The cartridge assembly is available in various lighting distributions using TIR designed Acrylic optical lenses over each LED.

Printed Circuit Board (PCB): Aluminum thermal clad board with 0.062" thick aluminum base layer "high temperature" HT-06503 or equivalent (subject to change) dielectric (0.003" thick, thermal conductivity of 2.2 W/MK, UL RTI of 140°C) 0.0014" thick copper circuit layer Circuit layer designed with copper pours to minimize thermal impedance across dielectric. Board shall be supplied with QPAD-3 fiberglass reinforced thermal pad 0.005" thick thermal conductivity of 2.0 W/Mk. Continuous use temperature of 180°C UL94 V-0. Board will be mounted to the heat sink using 12 #4-40 screws to ensure contact with thermal pad and heat sink. Use of thermal grease will not be allowed.

LIFESHIELD™ CIRCUIT: Thermal circuit shall protect the luminaire from excessive temperature by interfacing with its 0-10V dimmable drivers to reduce drive current as necessary. The factory-preset temperature limits shall be designed to ensure maximum hours of operation to assure L70 rated lumen maintenance. The device shall activate at a specific, factory-preset temperature, and progressively reduce power over a finite temperature range in recognition of the effect of reduced current on the internal temperature and longevity of the LEDs and other components. A luminaire equipped with the device may be reliably operated in any ambient temperature up to 55°C (131°F).

The thermal circuit will allow higher maximum wattages than would be permissible on an unregulated luminaire (if some variation in light output is permissible), without risk of premature LED failure.

Operation shall be smooth and undetectable to the eye. Thermal circuit shall directly measure the temperature at the LED solder point.

Thermal circuit shall consist of surface mounted components mounted on the LED engine (printed circuit board). For maximum simplicity and reliability, the device shall have no dedicated enclosure, circuit board, wiring harness, gaskets, or hardware. Device shall have no moving parts, and shall operate entirely at low voltage (NEC Class 2). The device shall be located in an area of the luminaire that is protected from the elements.

Thermal circuit shall be designed to "fail on", allowing the luminaire to revert to full power in the event of an interruption of its power supply, or faulty wiring connection to the drivers.

Device shall be able to co-exist with other 0-10V control devices (occupancy sensors, external dimmers, etc.). The device will effectively control the solder point temperature as needed; otherwise it will allow the other control device(s) to function unimpeded.

Electrical: Luminaires are equipped with an LED driver that accepts 100V through 277V, 50 Hz to 60 Hz (UNIV), or a driver that accepts 347V or 480V input. Power factor is .92 at full load. All electrical components are rated at 50,000 hours at full load and 40°C ambient conditions per MIL-217F Notice 2. Optional 0 to 10 volt dimming drivers are available upon request. All driver components supplied are Component-to-component wiring within the luminaire will carry no more than 80% of rated current and is listed by UL for use at 600VAC at 50°C or higher. Plug disconnects are listed by UL for use at 600 VAC, 15A or higher.

SURGE PROTECTOR: The onboard surge protector shall be a UL recognized component for the United States and Canada and have a surge current rating of 10,000 Amps using the industry standard 8/20 pSec wave. The LSP shall have a clamping voltage of 320V and surge rating of 372J. The case shall be a high-temperature, flame resistant plastic enclosure.

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).

AGENCY CERTIFICATION: The luminaire shall bear a CSA label and be marked suitable for wet locations.

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Job Name:
Maine Veterans Home

Catalog Number:
CAP-21-24NB-55-T4-UNV-3RNW-5K-CXX

Notes:

Type:
SL41S

SLA14-25041



Ordering
rev 07.19.2012

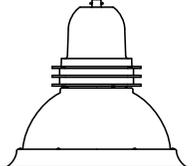
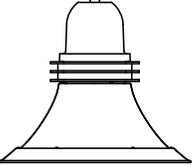
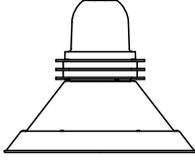
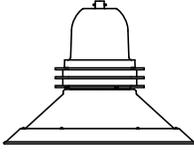
Type:

Ordering Code:

Job Name:

Notes:

URBAN high performance area light

Dimensions	
<p>CAP</p>  <p>21" - CAP 26" - CAP H: 18.75" H: 21.75" EPA: 1.04 ft² EPA: 1.39 ft² 35 lbs 40 lbs</p> <p><i>shown with 3RNW rings</i></p>	<p>MAR</p>  <p>21" - MAR 26" - MAR H: 18.9" H: 21.3" EPA: 1.00 ft² EPA: 1.25 ft² 35 lbs 40 lbs</p> <p><i>shown with 3RNW rings</i></p>
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ORDERING EXAMPLE: CAP-21 / 36NB-80 / T2 / UNV / PEC / 3RNW / MT

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MAR-26	48NB-110 60NB-136					___ other

Power/Lumens & Distributions

Engine	nominal wattage	lumen output (5k) varies by optic	delivered LPW	TM21 reported L95/85C	TM21 calculated L70/85C
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Amber LEDs available (consult factory for watts and lumens)

**URBAN** high performance area light**Specification**

rev 07.19.2012

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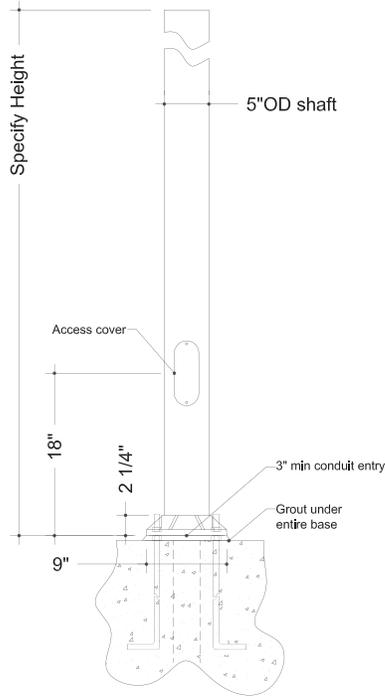
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SHO5

Posts & Arms | 5" Structural Post

post details

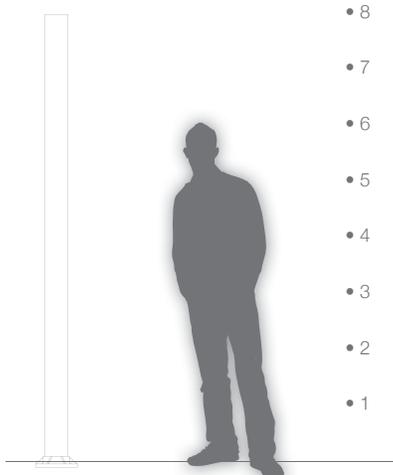


anchor base details

8.5" bolt circle



perspective



ordering logic

model

SHO5 5" Structural Post

profile

S smooth

F fluted (.188 only)

height

12 12'

14 14'

16 16'

18 18'

OTHER 20 20'

shaft

5G Ø5", .125" wall thickness (S)

5M Ø5", .188" wall thickness

5Q Ø5", .250" wall thickness (S)

pole top

OT open top (for post top arm)

TN tenon (standard 3"x3")

ARC acorn finial

BAL ball finial

OTHER _____

options

GFI-IU 20AMP GFCI receptacle with painted aluminum cover

CAST COVERS - Pg 192-195

OTHER _____

color

BB black

BZ bronze

GR green

WH white

BY gray

RAL RAL _____

specifications

construction

Post shall be made from a one-piece, seamless extruded aluminum shaft welded to a cast aluminum monolithic base. A welded ground lug is accessible through the hand hole, which shall be located on the post shaft (opposite of the opening) and concealed by a formed aluminum cover. All cast aluminum parts shall be low copper alloy A356. All extruded aluminum parts shall be alloy 6061-T6. Cast aluminum bolt covers, which are mechanically attached to the base plate, are optional for this post and should be considered when a base cover will not be used. Standard fluted shaft profile shall be 12-flat flutes.

anchor bolts

3/4"x24"x3" anchor bolts, double hex nuts and flat washers shall be hot dipped galvanized steel. A bolt circle template shall be provided for installation.

vibration dampeners

Vibration dampener pads shall be provided when required by customer or deemed necessary by Beacon products. Please consult factory for bridge mounted applications.

EPA (effective projected area)

EPA is defined as (surface area X drag factor) and measured in ft². Allowable post, luminaire arm, luminaire and accessory EPAs are derived from the most current published AASHTO (American Association of State Highway and Transportation Officials) standard, currently AASHTO 2001 (50yr design life). Customer assumes all responsibility for selecting the appropriate post for installation (consult factory for assistance). Luminaire arm, luminaire and accessory EPA must be equal to or less than allowable EPA of post. Consult a professional engineer for compliance with local codes and standards.

fasteners

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

finish

Finish shall be Beacote V polyester powdercoat paint, electrostatically applied and thermocured. All painted surfaces shall be subjected to chemical pre-treatment prior to painting by full immersion process. Finish shall meet or exceed AAMA 2604 standards.

ordering example

SHO5 / S / 14 / 5M / TN / GFI-IU / BB

available EPA index

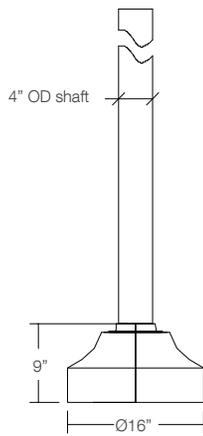
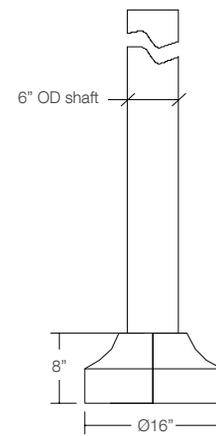
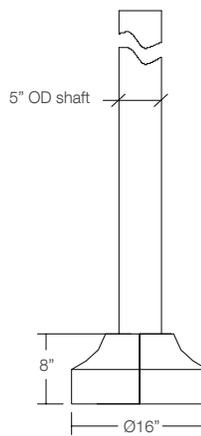
catalog #	wall thickness	nominal height	AASHTO 2001 wind zones (mph)						
			90	100	110	120	130	140	150
SHO5/S/10/5G	.125"	10'	12.3	9.7	7.9	6.5	5.5	4.6	4.0
SHO5/S/12/5G	.125"	12'	9.6	7.5	6.0	5.0	4.1	3.5	2.7
SHO5/S/14/5M	.188"	14'	12.3	9.7	7.8	6.4	5.3	4.5	2.9
SHO5/S/14/5Q	.250"	14'	16.0	12.7	10.3	8.6	7.2	6.1	5.3
SHO5/S/16/5M	.188"	16'	10.0	7.7	6.2	5.0	4.1	3.5	2.9
SHO5/S/16/5Q	.250"	16'	13.1	10.2	8.3	6.8	5.7	4.8	4.1
SHO5/S/18/5Q	.250"	18'	10.5	8.1	6.5	5.3	4.4	3.7	3.1
SHO5/F/10/5M	.188"	10'	18.6	14.6	11.7	9.4	7.7	6.3	5.1
SHO5/F/12/5M	.188"	12'	14.0	11.6	9.1	7.1	5.6	4.5	3.5
SHO5/F/14/5M	.188"	14'	12.1	9.2	7.0	5.3	4.0	3.0	2.2
SHO5/F/16/5M	.188"	16'	9.7	7.1	5.2	3.8	2.6	1.7	1.0

CAUTION: Consult factory for structural approval prior to attaching banners or other appendages. Warranty void if pole is cut, welded, drilled or otherwise modified outside Beacon factory.

**Job Name:**
Maine Veterans Home**Catalog Number:**
SHO5-S-20-5M-OT-DOMU5-CXX**Type:****P20**

Notes:

SLA14-25041

BEACON
PRODUCTS**Ordering**Type: Ordering Code: Job Name: Notes: **DOMUS** base**DOMU**Shown with reducing
collar for Ø4" shaft

ordering

specification

ORDERING EXAMPLE: DOMU / 4 / BB

model	diameter	color
DOMU	3 Ø3" OD	BB black
	4 Ø4" OD	BZ bronze
	5 Ø5" OD	BW white
	6 Ø6" OD	BG green
		BY gray
		MB metallic bronze
		MT metallic titanium
		___ RAL
		___ other

Construction: Post shall be made from a one-piece, seamless extruded aluminum shaft welded to a cast aluminum monolithic base. A welded ground lug is accessible through the hand hole, which shall be located on the post shaft (opposite of the opening) and concealed by a formed aluminum cover. All cast aluminum parts shall be low copper alloy A356. All extruded aluminum parts shall be alloy 6061-T6. Cast aluminum bolt covers, which are mechanically attached to the based plate, are optional for this post and should be considered when a base cover will not be used. Standard fluted shaft profile shall be 16-flat flutes for 3"OD and 12-flat flutes for 4", 5", & 6"OD.

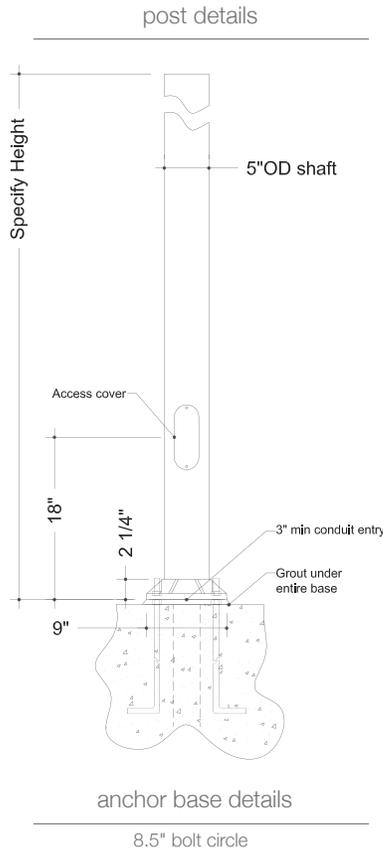
Fasteners: All fasteners shall be stainless steel. When tamper resistant fasteners are required, spanner HD (snake eye) style shall be provided (special tool required).

Finish: Finish shall be Beacote V polyester powdercoat paint, electrostatically applied and thermocured. All painted surfaces shall be subjected to chemical pre-treatment prior to painting by full immersion process. Finish shall meet or exceed AAMA 2604 standards.



SHO5

Posts & Arms | 5" Structural Post



ordering logic

model

SHO5 5" Structural Post

profile

S smooth

F fluted (.188 only)

height

12 12'

14 14'

16 16'

18 18'

OTHER _____

shaft

5G Ø5", .125" wall thickness (S)

5M Ø5", .188" wall thickness

5Q Ø5", .250" wall thickness (S)

pole top

OT open top (for post top arm)

TN tenon (standard 3"x3")

ARC acorn finial

BAL ball finial

OTHER _____

options

GFI-IU 20AMP GFCI receptacle with painted aluminum cover

CAST COVERS - Pg 192-195

OTHER _____

color

BB black

BZ bronze

GR green

WH white

BY gray

RAL RAL _____

specifications

construction

Post shall be made from a one-piece, seamless extruded aluminum shaft welded to a cast aluminum monolithic base. A welded ground lug is accessible through the hand hole, which shall be located on the post shaft (opposite of the opening) and concealed by a formed aluminum cover. All cast aluminum parts shall be low copper alloy A356. All extruded aluminum parts shall be alloy 6061-T6. Cast aluminum bolt covers, which are mechanically attached to the base plate, are optional for this post and should be considered when a base cover will not be used. Standard fluted shaft profile shall be 12-flat flutes.

anchor bolts

3/4"x24"x3" anchor bolts, double hex nuts and flat washers shall be hot dipped galvanized steel. A bolt circle template shall be provided for installation.

vibration dampeners

Vibration dampener pads shall be provided when required by customer or deemed necessary by Beacon products. Please consult factory for bridge mounted applications.

EPA (effective projected area)

EPA is defined as (surface area X drag factor) and measured in ft². Allowable post, luminaire arm, luminaire and accessory EPAs are derived from the most current published AASHTO (American Association of State Highway and Transportation Officials) standard, currently AASHTO 2001 (50yr design life). Customer assumes all responsibility for selecting the appropriate post for installation (consult factory for assistance). Luminaire arm, luminaire and accessory EPA must be equal to or less than allowable EPA of post. Consult a professional engineer for compliance with local codes and standards.

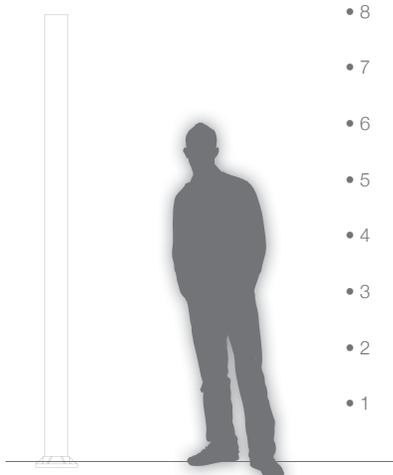
fasteners

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

finish

Finish shall be Beacote V polyester powdercoat paint, electrostatically applied and thermocured. All painted surfaces shall be subjected to chemical pre-treatment prior to painting by full immersion process. Finish shall meet or exceed AAMA 2604 standards.

perspective



ordering example
SHO5 / S / 14 / 5M / TN / GFI-IU / BB

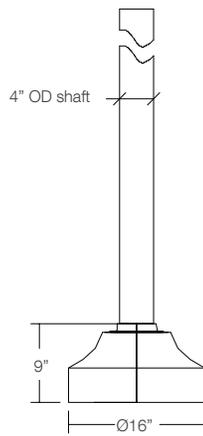
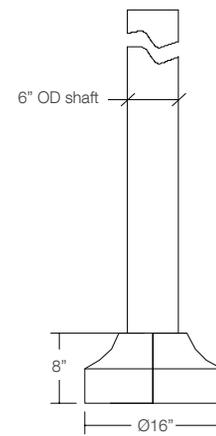
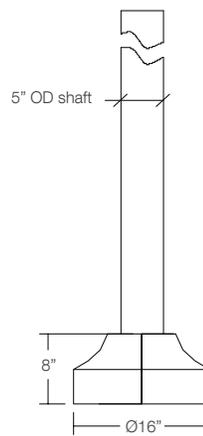
catalog #	wall thickness	nominal height	AASHTO 2001 wind zones (mph)						
			90	100	110	120	130	140	150
SHO5/S/10/5G	.125"	10'	12.3	9.7	7.9	6.5	5.5	4.6	4.0
SHO5/S/12/5G	.125"	12'	9.6	7.5	6.0	5.0	4.1	3.5	2.7
SHO5/S/14/5M	.188"	14'	12.3	9.7	7.8	6.4	5.3	4.5	2.9
SHO5/S/14/5Q	.250"	14'	16.0	12.7	10.3	8.6	7.2	6.1	5.3
SHO5/S/16/5M	.188"	16'	10.0	7.7	6.2	5.0	4.1	3.5	2.9
SHO5/S/16/5Q	.250"	16'	13.1	10.2	8.3	6.8	5.7	4.8	4.1
SHO5/S/18/5Q	.250"	18'	10.5	8.1	6.5	5.3	4.4	3.7	3.1
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CAUTION: Consult factory for structural approval prior to attaching banners or other appendages. Warranty void if pole is cut, welded, drilled or otherwise modified outside Beacon factory.

**Job Name:**
Maine Veterans Home**Catalog Number:**
SHO5-S-16-5M-OT-DOMU5-CXX**Type:****P16**

Notes:

SLA14-25041

BEACON
PRODUCTS**Ordering**Type: Ordering Code: Job Name: Notes: **DOMUS** base**DOMU**Shown with reducing
collar for Ø4" shaft

ordering

specification

ORDERING EXAMPLE: DOMU / 4 / BB

model	diameter	color
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		___ other

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Finish: Finish shall be Beacote V polyester powdercoat paint, electrostatically applied and thermocured. All painted surfaces shall be subjected to chemical pre-treatment prior to painting by full immersion process. Finish shall meet or exceed AAMA 2604 standards.