



September 18, 2014

Mount Vernon City Council

Dear Council Representatives:

On behalf of Mount Vernon Bank, you are presented with a proposal to begin the immediate incorporation of the Street Scape concept produced by Shoemaker Holland. This set of design rules and cohesive framework for color, texture, rhythm and aesthetic has been incorporated into The Bank plaza renovation. They authorized the renovation design and subsequent construction in process opposite City Hall.

This renovation work has progressed to the point of final incorporation of the foundational features required to implement safety, culture and history through lighting and vegetation. In order to proceed, your approval and participation is requested in this proposal.

Following this introduction is the detail supporting a new light fixture that would occur multiple times along the three blocks that define the downtown district, and extending further as possible. This new streetlight fits the framework of the Street Scape and adds the final touch to the new vernacular established. NRG Sales, represented by Mount Vernon resident, Randy Nicol, has provided this information and estimates a delivered cost of around \$2,900 per fixture.

Mount Vernon Bank has offered to purchase two of these fixtures incorporated into their plaza renovation if the City will purchase one to replace the City fixture at the NE corner of the block and connect all three to City power. Your approval of this proposal or variation thereof, and your leadership in this new direction for our downtown district is appreciated. We hope this may also spur the City to continue the work to bring this design concept one step closer to implementation.

Sincerely,


James R. Baty II
Partner, Technical Director

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Phone: 319-895-8827 • Fax: 319.895.8830

Websites: www.cfawalls.org & www.tilt-up.org • Email: jbaty@sauterbaty.com



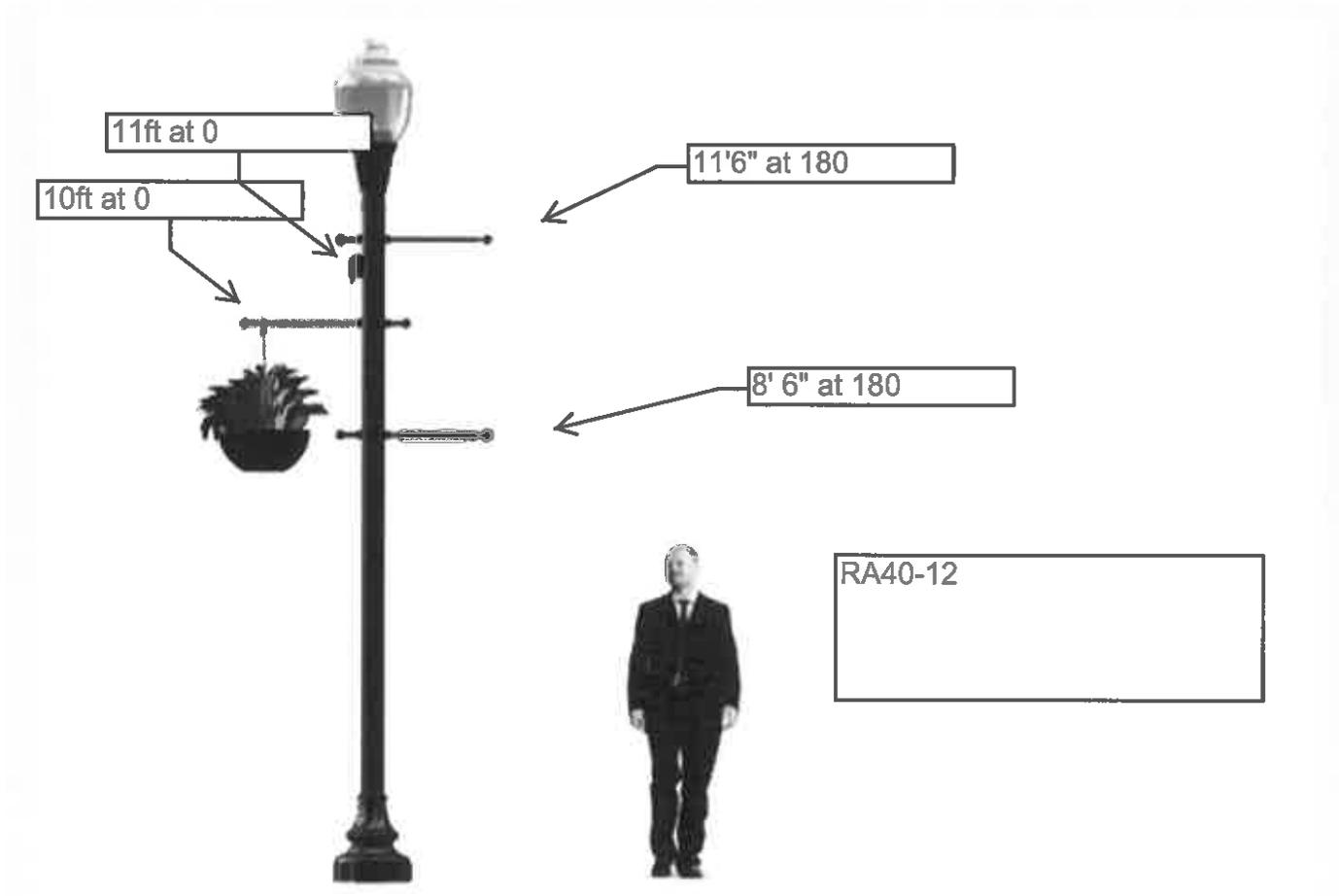
3D

Project info
 City:
 Project name:
 Document : Lumec.doc

The Serenade DSX Series evokes memories of the lighting of the past, having the appearance of a gently glowing acorn. But the historically inspired glass acorn shape encompasses a sophisticated reflector and refractor system. Superior efficiency and IES cutoff are two of the many benefits this optical system offers. Having as low as 1% uplight sets the Serenade DSX apart from imitators, while increased efficiency can help reduce energy usage. IP66 sealed optical system keep the optics free of contaminants, ensuring performance for years to come.

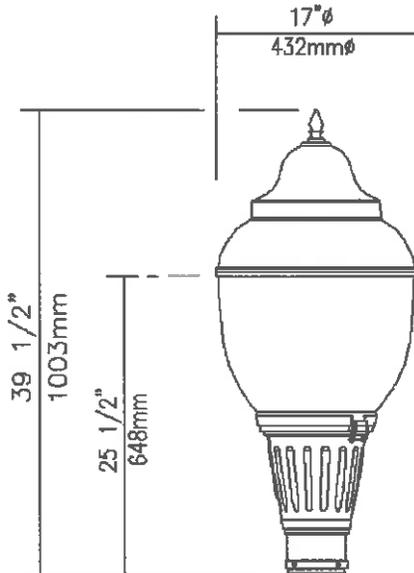
> Created by : randy nicol

Date: September 17, 2014



Product Line : S56-80W48LED4K-R-ACDR-LE3-VOLT-SFX-RA40-12-GFII-PSS-BAS20(2)-3/4X20-10 1/2-DEC-BKTX

PHILIPS
LUMEC



EPA: 2.17 sq ft / weight: 60 lb (27.3 kg)
Note: 3D image may not represent color or option selected.
Logos above include link, click to access.

Qty 3 Luminaire S56-80W48LED4K-R-ACDR-LE3-VOLT-SFX-FN1-BKTX

Description of Components:

Finial: Decorative cast 356 aluminum, mechanically assembled.

Hood: (ACDR), One-piece, seamless, pressure-moulded impact-resistant (DR) acrylic globe having internal prisms with smooth external self-cleaning surface, permanently assembled to the globe.

Access-Mechanism: A cast A360.1 aluminum technical ring with latch and hinge. The mechanism shall offer tool-free access to the inside of the luminaire. An embedded memory-retentive gasket shall ensure weatherproofness.

Globe: (ACDR), One-piece, seamless, injected-moulded impact-resistant (DR) acrylic globe having an inner prismatic surface with semi-prismatic house side shield and glare softening prisms on the street side. The smooth external finish offers self-cleaning properties. The globe is permanently sealed onto the access-mechanism.

Lamp: LED Module (Included), LED type Philips Lumileds LUXEON R. Composed of 48 high-performance white LEDs. Color temperature of 4000 Kelvin nominal, 70 CRI. Operating lifespan based on TM-21 extrapolation to get results after which 50% of LEDs still emits over 70% (L70) of its original lumen output. Use of metal core board ensures greater heat transfer and longer lifespan of the light engine. The LED circuit board is included with a quick disconnect wiring connection for ease of replacement.

Optical System: (LE3), IES type III (asymmetrical). Composed of high-performance optical grade PMMA acrylic refractor lenses to achieve desired distribution optimized to get maximum spacing, target lumens and a superior lighting uniformity. Optical system is rated IP66. Performance shall be tested per LM-63, LM-79 and TM-15 (IESNA) certifying its photometric performance. Street side indicated.

Mount Vernon - city of (73525)

Heat Sink: Made of cast aluminum optimising the LEDs efficiency and life. Product does not use any cooling device with moving parts (only passive cooling device)

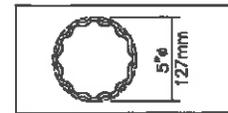
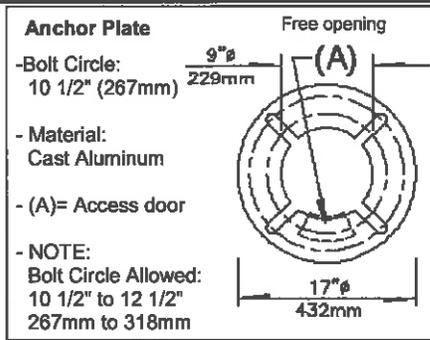
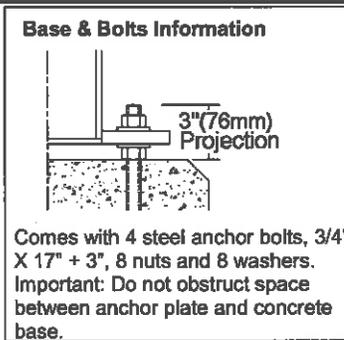
Driver: High power factor of 95%. Electronic driver, operating range 50/60 Hz. **Auto-adjusting universal voltage input from 120 to 277 VAC rated for both application line to line or line to neutral, Class I**, THD of 20% max. Maximum ambient operating temperature from -40F(-40C) to 130F(55C) degrees. Certified in compliance to UL1310 cULus requirement. Dry and damp location. Assembled on a unitized removable tray with Tyco quick disconnect plug resisting to 221F(105C) degrees.

The current supplying the LEDs will be reduced by the driver if the driver experiences internal overheating as a protection to the LEDs and the electrical components. Output is protected from short circuits, voltage overload and current overload. Automatic recovery after correction. Standard built-in driver surge protection of 2.5kV (min).

Surge Protector: Surge protector tested in accordance with ANSI/IEEE C62.45 per ANSI/IEEE C62.41.2 Scenario I Category C High Exposure 10kV/10kA waveforms for Line-Ground, Line-Neutral and Neutral-Ground, and in accordance with U.S. DOE (Department of Energy) MSSLC (Municipal Solid-State Street Lighting Consortium) model specification for LED roadway luminaires electrical immunity requirements for High Test Level 10kV / 10kA.

Fitter: Cast aluminum A360.1 c/w 4 set screws 3/8-16 UNC. Fits on a 4"(102mm) outside diameter by 4"(102mm) long tenon.

Mount Vernon - city of (73525)



Qty	3	Pole	RA40-12-BAS20(2)-GFII-PSS16-BKTX
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Description of Components:

Pole Shaft: Shall be made from a 5" (127mm) 12 fluted round extruded 6061-T6 aluminum tubing, having a 0.208" (5.3mm) wall thickness, welded to the pole base.

Joint Cover: One-piece round joint cover made from cast 356 aluminum, mechanically fastened with stainless steel screws.

Pole Base: Shall be made from a round fluted cast 356-T6 aluminum base having a 0.375" (9.5mm) wall thickness, complete with a cast-in anchor plate.

Maintenance Opening: The pole shall have a 2 7/8" to 6" wide x 5 1/2" long (73mm x 152mm x 140mm) maintenance opening centered 14" (356mm) from the bottom of the anchor plate, complete with a weatherproof cast 356 aluminum cover and a copper ground lug.

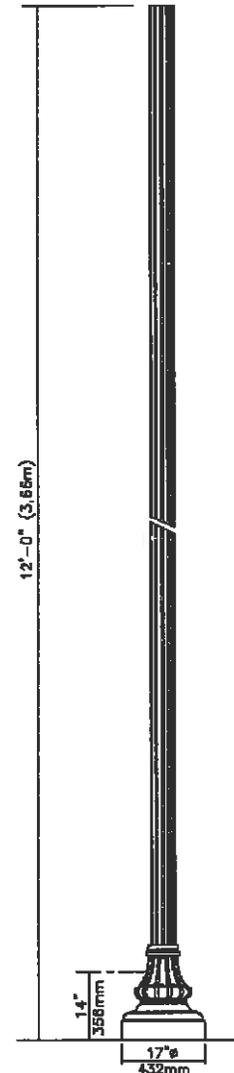
Pole Options: (BA) Single, upper and lower arms (2), fixed standard type, made of steel tubing, 1 1/16" (27mm) outside diameter, mechanically assembled to the pole, complete with a standard cast aluminum decorative ball. (GFI) Duplex receptacle, WR Weather Resistant, 120 volts, ground fault interrupter, **complete with an in-use weatherproof aluminum painted cover.** Possibility of padlock (Padlock not included). **15 amp., NEMA 5-15R.**

(PS) Single plant support, Fixed standard type, made of steel tubing, 1 1/16" (27mm) outside diameter, mechanically assembled to the pole, complete with standard cast aluminum decorative ball.

Note: A tenon will be provided when the luminaire or bracket does not fit directly on pole shaft. Tenon not shown on the drawing.

IMPORTANT: Philips Lumec strongly recommends the installation of the complete lighting assembly with all of its accessories upon the anchoring of the pole. This will ensure that the structural integrity of the product is maintained throughout its lifetime.

Pole Weight: 59 lbs (26.8 kg)



Miscellaneous

Description of Components:

Wiring: Gauge (#14) TEW/AWM 1015 or 1230 wires, 6" (152mm) minimum exceeding from luminaire.

Hardware: All exposed screws shall be stainless steel with Ceramic primer-seal basecoat to reduce seizing of the parts. All seals and sealing devices are made and/or lined with EPDM and/or silicone and/or rubber.

Finish: Color to be **black textured RAL9005TX (BKTX)** and in accordance with the AAMA 2603 standard. Application of polyester powder coat paint (4 mils/100 microns) with ± 1 mils/24 microns of tolerance. The Thermosetting resins provides a discoloration resistant finish in accordance with the ASTM D2244 standard, as well as luster retention in keeping with the ASTM D523 standard and humidity proof in accordance with the ASTM D2247 standard.

The surface treatment achieves a minimum of 2000 hours for salt spray resistant finish in accordance with testing performed and per ASTM B117 standard.

Note: *IMPORTANT: All missing details must be clearly specified on the return of these approval drawings. Thank you for your cooperation.*

VOLTAGE: _____

Warning: The maximum weight supported by the plant support is 100 lb (45 kg).

LED products manufacturing standard: The electronic components sensitive to electrostatic discharge (ESD) such as light emitting diodes (LEDs) are assembled in compliance with IEC61340-5-1 and ANSI/ESD S20.20 standards so as to eliminate ESD events that could decrease the useful life of the product.

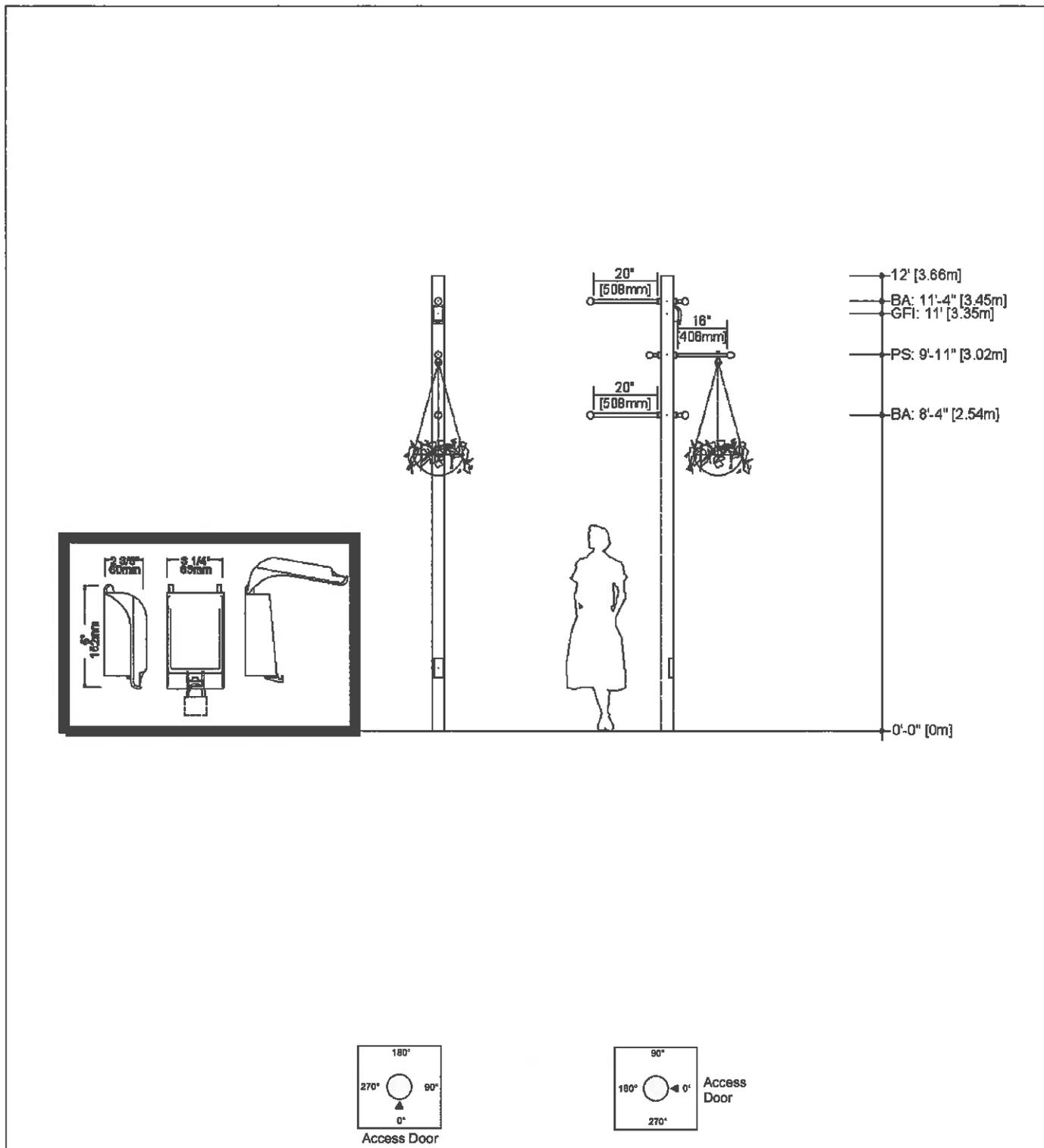
Quality Control: The manufacturer must provide a written confirmation of its ISO 9001-2008 and ISO 14001-2004 International Quality Standards Certification.

Web site information details: Click on any specific information details you need:

[Paint finish](#) / [Warranties](#) / [ISO 9001-2008 Certification](#) / [ISO 14001-2004 Certification](#) / [CSA Pole Certification](#)

Parametric Options Illustration

(schematic pole shown, for actual pole representation please refer to previous pages)



LED light engine technical information for S55 S56 S55C1 S56C1 S55C2 S56C2										
LED - Philips Lumileds Luxeon R, CRI = 70, CCT = 4000K (+/- 350K)										
System (LED + driver) rated life = 100,000 hrs ¹										
Lamp	Typical delivered lumens	Typical system wattage ² (W)	Typical current @ 120 V (A)	Typical current @ 208 V (A)	Typical current @ 240 V (A)	Typical current @ 277 V (A)	LED current (mA)	HO equivalent ³	Luminaire Efficacy Rating (lm/W)	BIMB rating
35W32LED4K-R-LE2	3468	36	0.29	0.17	0.16	0.15	350	70-100	96.3	B1-U2-G1
35W32LED4K-R-LE3	3439	36	0.29	0.17	0.16	0.15	350	70-100	95.5	B1-U2-G2
35W32LED4K-R-LE4	3520	36	0.29	0.17	0.16	0.15	350	70-100	97.8	B1-U2-G1
35W32LED4K-R-LE5	3694	36	0.29	0.17	0.16	0.15	350	70-100	102.6	B3-U2-G1
55W32LED4K-R-LE2	4916	53	0.40	0.23	0.21	0.19	530	100-150	92.8	B1-U3-G1
55W32LED4K-R-LE3	4880	53	0.40	0.23	0.21	0.19	530	100-150	92.1	B1-U3-G2
55W32LED4K-R-LE4	4984	53	0.40	0.23	0.21	0.19	530	100-150	94.0	B1-U3-G2
55W32LED4K-R-LE5	5232	53	0.40	0.23	0.21	0.19	530	100-150	98.7	B3-U3-G1
55W48LED4K-R-LE2	5105	55	0.38	0.22	0.23	0.21	350	100-150	92.8	B2-U3-G2
55W48LED4K-R-LE3	5064	55	0.38	0.22	0.23	0.21	350	100-150	92.1	B2-U3-G2
55W48LED4K-R-LE4	5172	55	0.38	0.22	0.23	0.21	350	100-150	94.0	B1-U3-G2
55W48LED4K-R-LE5	5429	55	0.38	0.22	0.23	0.21	350	100-150	98.7	B3-U3-G1
80W48LED4K-R-LE2	7192	79	0.63	0.36	0.34	0.31	530	150-175	91.0	B2-U3-G2
80W48LED4K-R-LE3	7132	79	0.63	0.36	0.34	0.31	530	150-175	90.3	B2-U3-G2
80W48LED4K-R-LE4	7287	79	0.63	0.36	0.34	0.31	530	150-175	92.2	B2-U3-G2
80W48LED4K-R-LE5	7649	79	0.63	0.36	0.34	0.31	530	150-175	96.8	B3-U3-G2

¹ L70 = 100,000 hrs (at ambient temperature = 25°C and forward current = 700 mA)

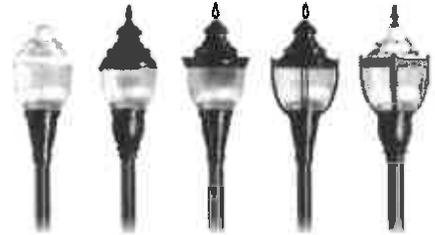
² System wattage includes the lamp and the LED driver.

³ Equivalence should always be confirmed by a photometric layout

Note : Due to rapid and continuous advances in LED technology, LED luminaire data is subject to change without notice and at the discretion of Philips.

Reliable efficiency, designed for performance

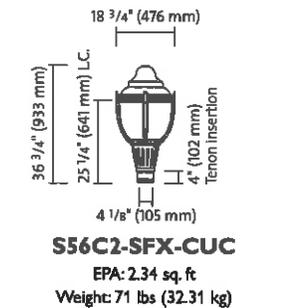
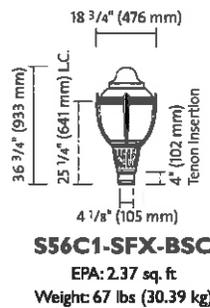
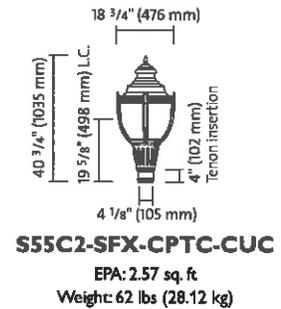
SERENADE DSX URBAN LUMINAIRE



PHILIPS LUMEC SERENADE SERIES URBAN LUMINAIRE

Philips Lumec's Serenade Series is a beautiful staple of elegance and subtlety with a mighty and brilliant heart. It can be used to accentuate any environment no matter how harsh the prevailing conditions might be. The Serenade is a straightforward, no-nonsense luminaire, designed for performance and reliability.

Project: _____
 Emplacement: _____
 Circulating traffic: _____
 Type de luminaire: _____
 Fabricant: _____ Lamps: _____ Qty: _____
 Notes: _____



Benefits

- Glass globe with no exterior prism.
- Cut-off optical system having as low as 1% uplight with DSX optics.
- Superior efficiency & lighting uniformity, available with metal halide (MH) and high-pressure sodium (HPS) lamp sources as well as induction lamps (QL) and LED.
- Toolfree access & IP66 sealed optical chamber.

**PHILIPS
LUMEC**

SERENADE DSX URBAN LUMINAIRE

Lamps / LED

LED = Philips Lumileds Luxeon R, CRI = 70, CCT = 4000K (+/- 350K)

System (LED + driver) Rated life = 100,000 hrs¹

LED light engine technical information for S55, S56, S55C1, S56C1, S55C2, S56C2

Lamp	Typical delivered lumens	Typical system wattage ² (w)	Typical current @ 120V (A)	Typical current @ 208V (A)	Typical current @ 240V (A)	Typical current @ 277V (A)	LED current (mA)	HID equivalent ²	Luminaire efficacy rating (lm/W)	BUG rating
35W32LED4K-R-LE2	3468	36	0.29	0.17	0.16	0.15	350	70 -100	96.3	B1-U2-G1
35W32LED4K-R-LE3	3439	36	0.29	0.17	0.16	0.15	350	70 -100	95.5	B1-U2-G2
35W32LED4K-R-LE4	3520	36	0.29	0.17	0.16	0.15	350	70 -100	97.8	B1-U2-G1
35W32LED4K-R-LE5	3694	36	0.29	0.17	0.16	0.15	350	70 -100	102.6	B3-U3-G1
55W32LED4K-R-LE2	4916	53	0.40	0.23	0.21	0.19	530	100 -150	92.8	B1-U3-G1
55W32LED4K-R-LE3	4880	53	0.40	0.23	0.21	0.19	530	100 -150	92.1	B1-U3-G2
55W32LED4K-R-LE4	4984	53	0.40	0.23	0.21	0.19	530	100 -150	94.0	B1-U3-G2
55W32LED4K-R-LE5	5232	53	0.40	0.23	0.21	0.19	530	100 -150	98.7	B3-U3-G1
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80W48LED4K-R-LE5	7649	79	0.63	0.36	0.34	0.31	530	150 -175	96.8	B3-U3-G2

Optical System / LED



Prismatic globe

IP66 rated optical system, composed of individual pre-oriented lens to achieve desired distribution, assembled with globe having an inner prismatic surface permanently sealed onto the lower part of the heat sink.

LE2: Asymmetrical
LE3: Asymmetrical
LE4: Asymmetrical
LE5: Symmetrical (square)

> LE2/LE3/LE4/LE5 available in acrylic and borosilicate.

> House shield available in option (HS)



Prismatic globe

IP66 rated optical system, composed of individual pre-oriented lens to achieve desired distribution, assembled with globe having an inner prismatic surface permanently sealed onto the lower part of the heat sink.

LEH2: Asymmetrical : Extensive
LEH3: Asymmetrical : Extensive

> LEH2/LEH3 available in acrylic and borosilicate.

> House shield available in option (HS)

Voltage

120 / 208 / 240 / 277 / 347 / 480

Optical System /QL

(Lamps included)



DSX Optics

Optical system made of a hydroformed reflector sealed on a prismatic globe.

DSX5: Symmetrical : Cutoff

> House shield available in option (HS)

Lamps / QL

Wattage	DSX5
55 QL	✓
85 QL	✓

✓ : Available

Voltage

120 / 208 / 240 / 277

High frequency generator for induction lamp (4000K).
Instant start. Operating range 50-60 Hz or DC.
Lamp minimum starting temperature -40F (-40 °C).

¹ L70 = 100,000 hrs (at ambient temperature = 25°C and forward current = 700 mA)

² System wattage includes the lamp and the LED driver.

³ Equivalence should always be confirmed by a photometric layout.

* Photometry available on Philips Lumec's web site www.philips.com/lumec.

Note: Due to rapid and continuous advances in LED technology, LED luminaire data is subject to change without notice and at the discretion of Philips.

SERENADE DSX URBAN LUMINAIRE

Lamps / HID

Wattage	GL				ACDR			
	DSX3	DSX5	DSH3	DSH5	DSX3	DSX5	DSH3	DSH5
50 MH, medium	✓	✓	✓	✓	✓	✓	✓	✓
70 MH, medium	✓	✓	✓	✓	✓	✓	✓	✓
100 MH, medium	✓	✓	✓	✓	✓	✓	✓	✓
150 MH, medium	✓	✓	✓	✓	✓	✓	✓	✓
175 MH, mogul	✓	✓	✓	✓	✓	✓	✓	✓
200 MH, mogul	✓	✓	✓	✓	N/A	N/A	N/A	N/A
250 MH, mogul	✓	✓	✓	✓	N/A	N/A	N/A	N/A
35 HPS, medium	✓	✓	✓	✓	✓	✓	✓	✓
50 HPS, mogul	✓	✓	✓	✓	✓	✓	✓	✓
70 HPS, mogul	✓	✓	✓	✓	✓	✓	✓	✓
100 HPS, mogul	✓	✓	✓	✓	✓	✓	✓	✓
150 HPS, mogul	✓	✓	✓	✓	✓	✓	✓	✓
200 HPS, mogul	✓	✓	✓	✓	N/A	N/A	N/A	N/A
250 HPS, mogul	✓	✓	✓	✓	N/A	N/A	N/A	N/A

✓ : Available N/A : Not available

Optical System / HID

(Lamps not included)



DSX Optics

Optical system made of a hydroformed reflector sealed on a prismatic globe.

DSX3: Asymmetrical / Cutoff

DSX5: Symmetrical / Cutoff

> House shield available in option (-HS)



DSH Optics

Optical system made of a hydroformed reflector sealed on a prismatic globe.

DSH3: Asymmetrical / Extensive Non-Cutoff

DSH5: Symmetrical / Extensive Non-Cutoff

> House shield available in option (-HS)

* Photometry available on Philips Lumec web site www.philips.com/lumec.

CosmoPolis™ / new generation of ceramic metal halide lamp

Wattage	GL				ACDR			
	DSX3	DSX5	DSH3	DSH5	DSX3	DSX5	DSH3	DSH5
50 MH, medium	✓	✓	✓	✓	✓	✓	✓	✓
70 MH, medium	✓	✓	✓	✓	✓	✓	✓	✓
100 MH, medium	✓	✓	✓	✓	✓	✓	✓	✓

✓ : Available

Voltage

HID¹: 120 / 208 / 240 / 277 / 347 / 480

CosmoPolis™: 120 / 208 / 240 / 277

Master Color Elite: 208 / 240 / 277

¹ Multi-top ballast also available.

Master Color Elite

Wattage	GL				ACDR			
	DSX3	DSX5	DSH3	DSH5	DSX3	DSX5	DSH3	DSH5
50 MH, medium	✓	✓	✓	✓	✓	✓	✓	✓
70 MH, medium	✓	✓	✓	✓	N/A	N/A	N/A	N/A

✓ : Available N/A : Not available

Luminaire Options

- HS** House shield
- BC** Block connector
- TN3** Adaptor to fit over a 3" (76 mm) O.D. by 4" (102 mm) long tenon
- TN3.5** Adaptor to fit over a 3 1/2" (89 mm) O.D. by 4" (102 mm) long tenon
- FNC** Copper-colored painted finial
- FS** Fusing (consult factory)
- PH8** Photoelectric cell

S55C1/S55C2/S56C1/S56C2

- BS** Brass decorative band
- BSC** Brass decorative band, protected by a polyester clear coat
- CU** Copper decorative bands, located on the ring guard
- CUC** Copper decorative band, protected by a polyester clear coat

S55/S55C1/S55C2

- CPT** Copper cupola
- CPTC** Copper cupola, protected by a polyester clear coat
- BST** Brass decorative cupola
- BSTC** Brass decorative cupola, protected by a polyester clear coat

S55

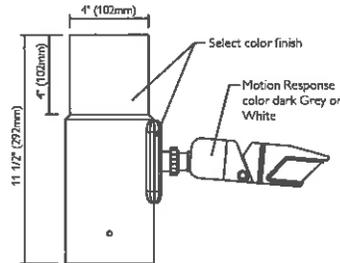
- CR55** Decorative crown

SERENADE DSX URBAN LUMINAIRE

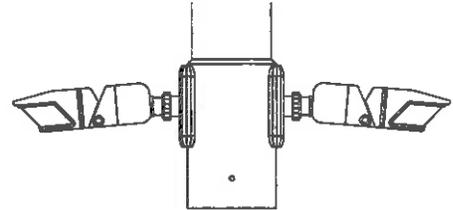
Luminaire Options (continued)

Motion Response:

Tenon mount motion response provides 270° coverage on an adjustable knuckle. The coverage equals to up to 6 times the sensor height. It is an option offered jointly with the Dynadimmer OVR option, that can bring the light up to 100% when the motion response is triggered. It is available in a single or double mounting option. Finish options for the motion response device are white or dark gray. Finish options for the tenon must be specified to match the luminaire and pole. The tenon mount is fully rotatable 360°. This option is available for a 4" OD x 4" long tenon. See instruction sheet for time setting functionality (12 second to 16 minute turn off options) and for mounting instructions.



MR4PG1 or MR4PW1



MR4PG2 or MR4PW2

Mountings:

(Consult the Pole Guide for details and the complete line of mountings)



CRA

CRC

CRD

CRE

CRF

Finials:



FN1

FN2

FN3

FN4

FN9

FN9

FN10

FN11

Adaptors

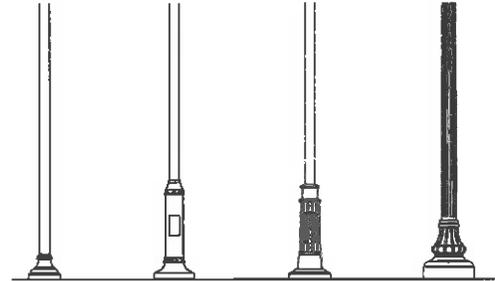


SFX

SFOK

Poles and Pole options

(Consult the Pole Guide for details and the complete line of poles)



APR4-LBC3

RA61

R80-TBC1

RTA40

Finishes

(Consult Philips Lumec's Color Chart for complete specifications)

The specially formulated Lumital powder coat finish is available in a range of many standard colors.

Luminaire ordering sample

Luminaire	Lamp	Globe/Lens	Optical system	Voltage	Adaptor	Options	Mounting & Configuration	Pole	Finish
S55	90W49LED4K	GL	LE3	120	SFOK	FN10	CRA-1A	RTA40	BKTX

Ordering Guide (Accessories) - Motion Response*

Must be ordered as a separate line item

example: ACC-120-MR4PGI-BKTX

Accessory
ACC

Voltage
120: 120V
277: 277V

Motion Response Module*
MR4PG1: Single Grey
MR4PG2: Double Grey
MR4PW1: Single White
MR4PW2: Double White

Finish
(Consult Philips Lumec's Color Chart for complete specifications)

*OVR option is required for Motion Response Accessory

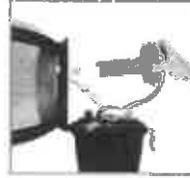
SERENADE DSX URBAN LUMINAIRE

Maintenance



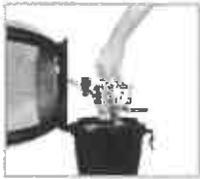
1. Access to internal component

The luminaire's hood can be opened by simply opening the latch located on the technical ring. The hood can then be pivoted along a hinge incorporated in the technical ring. For ease of maintenance, a retaining mechanism holds the globe at a 90° angle from the technical ring.



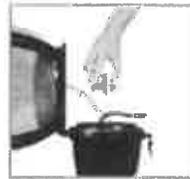
2. Access to lamp

A simple quarter-turn of the sealed optic shutter provides easy access to the lamp. Quick-disconnect terminals between the lamp and the ballast tray ensure safe and easy lamp replacement.



3. Access to ballast

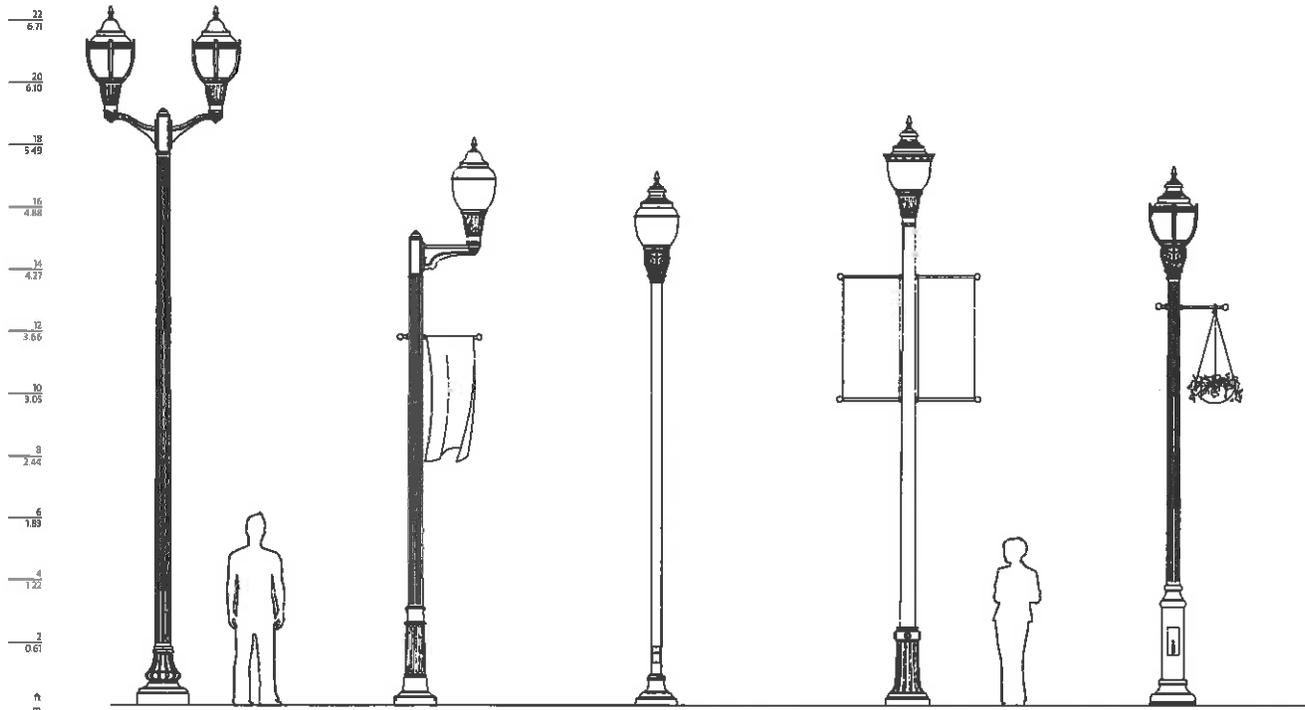
The toolfree drop-in unitized ballast tray is slipped into the post top box which rests on the optical support plate. Here again, the use of quick-disconnect terminals ensures safe and easy ballast maintenance.



4. Access to PH8

Once the ballast tray is removed, tool-free access to the photoelectric cell (PH8) is then possible. Orienting the cell is also an easy step to achieve by simply turning the luminaire's technical ring in the desired position.

Assembly examples



Luminaire:
S56C2-SFX-FN10
Mounting: **CRF-2**
Pole: **RTA50**

Luminaire:
S56-SFX-FN10
Mounting: **CRC-1A**
Pole: **RTA800BA**

Luminaire:
S55-SFOK-FN10
Pole: **APR4-LBC3**

Luminaire:
S55-SFX-CR55-FN10
Pole: **RTA126-BA**

Luminaire:
S55C1-SFOK-FN10
Pole: **RTA61-PS**



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