

**Street Light – South Acton Commuter Lot
South Acton**



SPEC-LINES

manufacturer's representative

Date: 5/25/01

FAX COVER SHEET

Total Number of Pages (Including Cover Sheet): 8

To: TOWN OF ACTON

Re: _____

Attn: DEAN CHRISTER

DEAN - HERE ARE RECORD DRAWINGS FOR YOUR REVIEW + FILES.

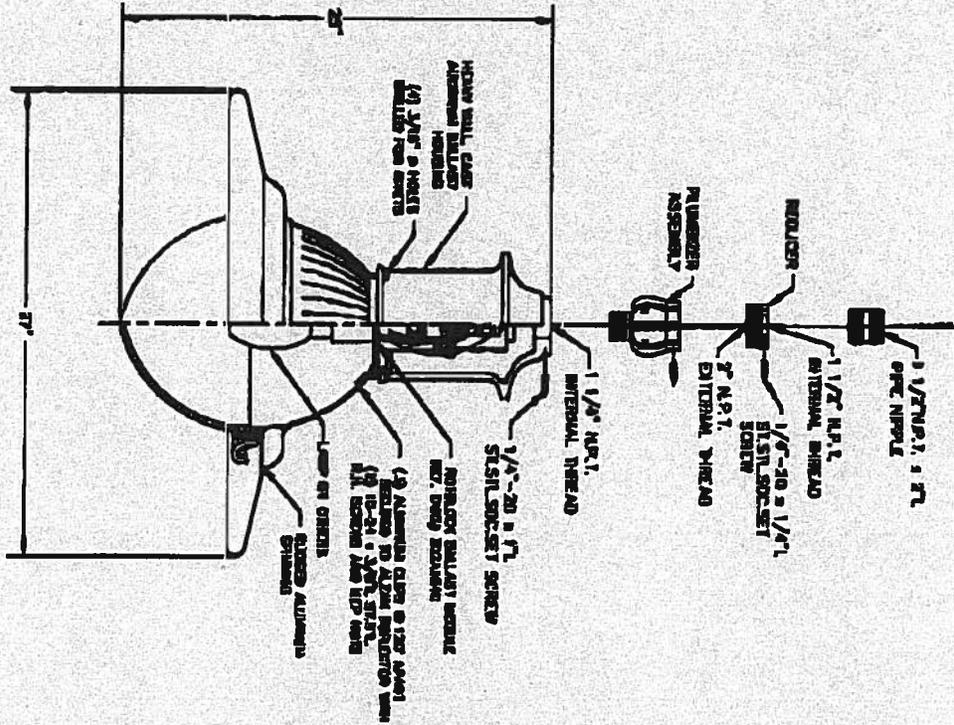
PLEASE NOTE THAT THE CLAMP-ON BANNER ARMS HAVE BEEN DETAILLED ON AN ASSUMED BANNER SIZE OF 24" W X 60" L. THE CLAMP IS SIZED TO WORK WITH THE SHAFT DIAMETERS AT ELEVATIONS SHOWN.

PLEASE LET ME KNOW IF THIS ARRANGEMENT WORKS FOR YOU.

cc: _____

REGONIS
MARK FORENT

NOTE:
1) LAMP BY OTHERS
2) UNDERSIDE OF SPINNING TO BE PAINTED
SAME COLOR AS REST OF LUMINAIRE



KING CAN. ORDER NO.:

KING U.S. ORDER NO.:

CUSTOMER ORDER NO.:

SPECIFICATIONS

CATALOGUE NO.: K204-EG8-III-250(MOG)
-MH-240(MT)-FL

QUANTITY: _____
GLOBE MATL: GLASS
IES CLASSIFIC.: TYPE III
WATTAGE: 250W
LIGHT SOURCE: METAL HALIDE
LINE VOLTAGE: 240V(MULTI TAP)
PAINT: BLACK
LAMP BY OTHERS

BALLAST INFORMATION:

BALLAST TYPE: _____
BALLAST MANUFACTURER: CMA
CATALOG NUMBER: MAGNETEK / ADVANCE
M250IAL TAC3M / 71A5790

OPTIONS:

QUICK DISCONNECT
TERMINAL BLOCK
OTHER: _____

CUSTOMER APPROVAL: _____



KING LUMINAIRE
1000 W. 10th Street, Dept. 500
Lima, OH 44803-1000
Tel: 419-223-1000
Fax: 419-223-1001

DESIGNER NAME:	DATE:	REV:
APPROVAL DWG:	DATE:	REV:
PRODUCT/VERSION:	DATE:	REV:

PART	PLANT REFERENCE	REVISION
BLDG	DMG, A's	
CAPITAL		
OPTICS		
BALLAST		
FINIAL		
OTHERS		

CERT. LD. CS FT

ACTON/MA

Y00630001427

REV.	ALTERATION	E.C.N.	DATE	BY

KING LUX ORDER NO.
X

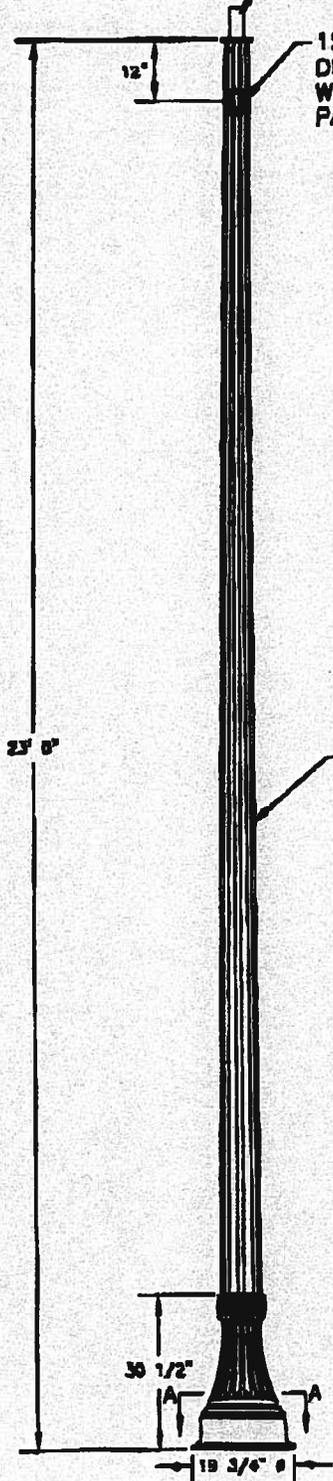
CUSTOMER ORDER NO.
X

2 1/2" IPS (2 7/8" O.D.)
TENON X 6" LG.
HEAVY DUTY

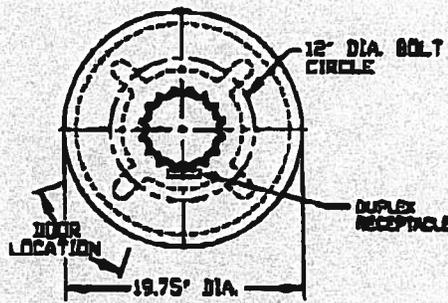
15A/120V GFI
DUPLEX RECEPTACLE C/W
WEATHERPROOF COVERPLATE
PAINT: BLACK

POLE SPECIFICATIONS

CATALOGUE NO.: KSS19FF-23-DR
 QUANTITY:
 MATERIAL: CAST IRON BASE
 COLOUR: FLUTED STEEL SHAFT
 PAINT: BLACK
 OVERALL HGT.: 23' 0"
 ANCHOR BOLTS: (4) 1" x 36" L
 BOLT CIRCLE: 12" Ø



KSS19FF-23 CLEVELAND
CAST IRON/STEEL POLE
(PAINT: BLACK)



SECTION A-A

CUSTOMER APPROVAL: _____



KING LUMINAIRE
COMPANY INC.

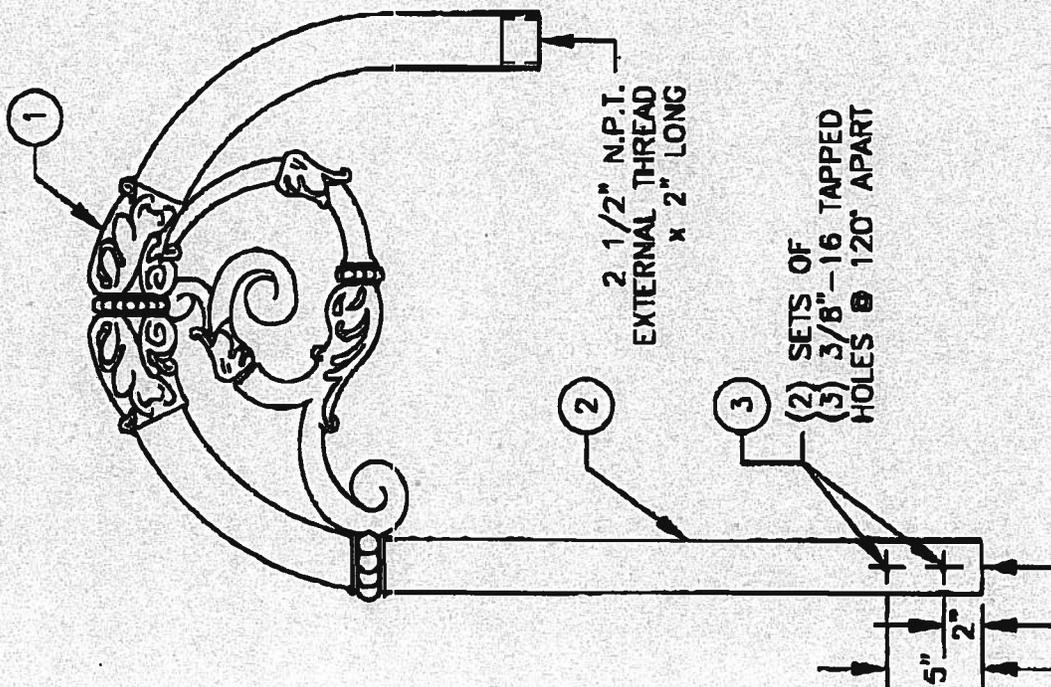
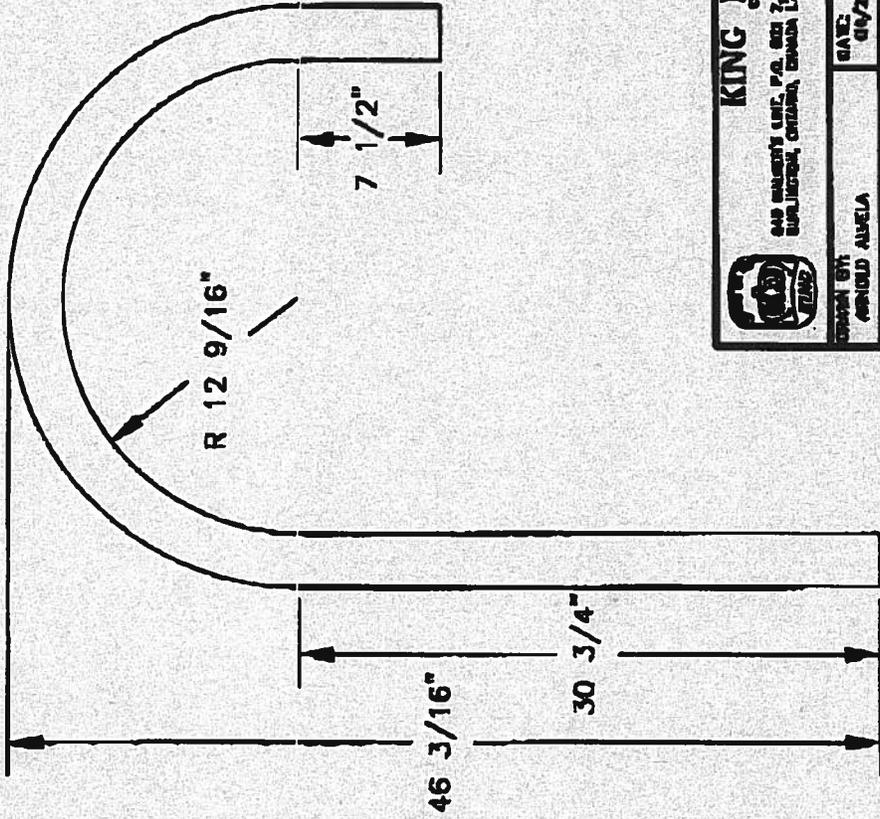
645 BALDWIN LANE, P.O. BOX 7, P.O. BOX 208 JEFFERSON, MASS
 BELLEVILLE, ONTARIO, CANADA L7R 2M9 11501 BROAD STREET, NEW
 U.S.A. 04837 U.S.A. 04837

DRAWING NAME: APPROVAL DWG	DWG NUMBER: 206A1427-1	DATE: 05/07/01	DWG BY: TB	REV:
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PROJECT/CUSTOMER: ACTON, MA.

LUMINAIRE 206A1427

REV.	ALTERATION	E.C.N.	DATE	BY

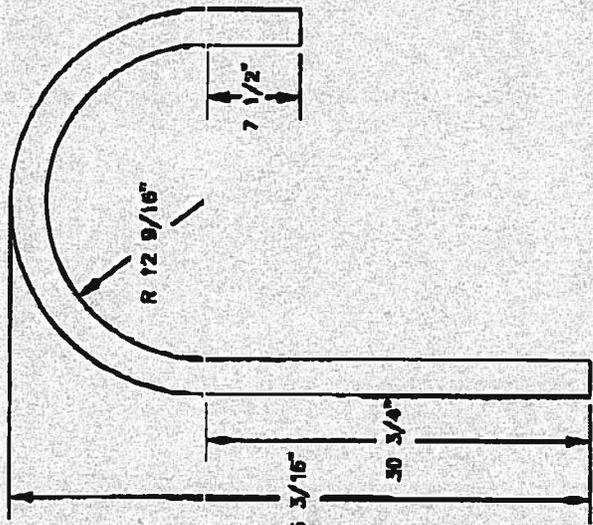
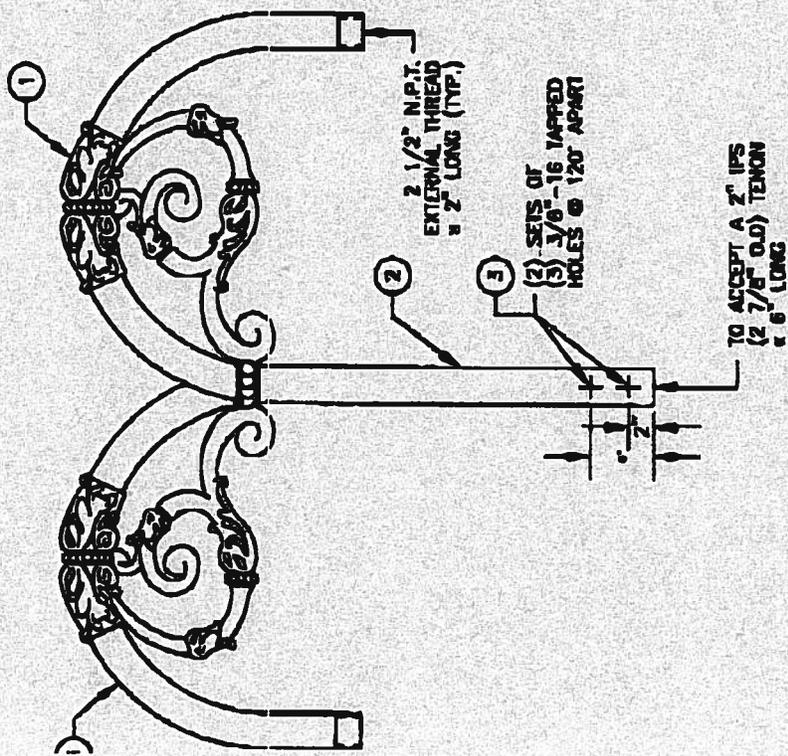


TO ACCEPT A 2" IPS
(2 7/8" O.D) TENON
x 6" LONG

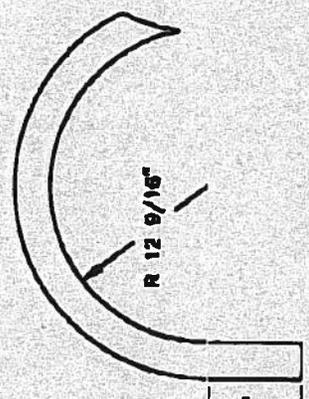
ITEM #2 DETAIL

 KING LUMINAIRE COMPANY INC. 648 UNIVERSITY AVE., P.O. BOX 7 BURLINGTON, CANADA, T7R 1A1 P.O. BOX 210 4770000, OHIO 4155 EAST VENTURE AVE O.S.A. 4400	
DATE: 01/20/01	DWG. NO.: 50180008
CHECKED BY:	SCALE: 1:1
QUANTITY:	COLOR:
PROJECT: KA14-T-1 NEW ORLEANS ARV	DRWG. NO.: 50180008-1
DESIGNER NAME:	SHEET OF
FABRICATION DRAWING	

REV.	ALTERATION	E.C.N.	DATE	BY



ITEM #2 DETAIL

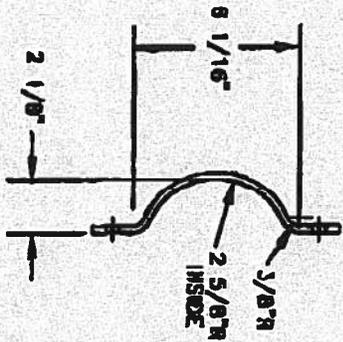


ITEM #4 DETAIL

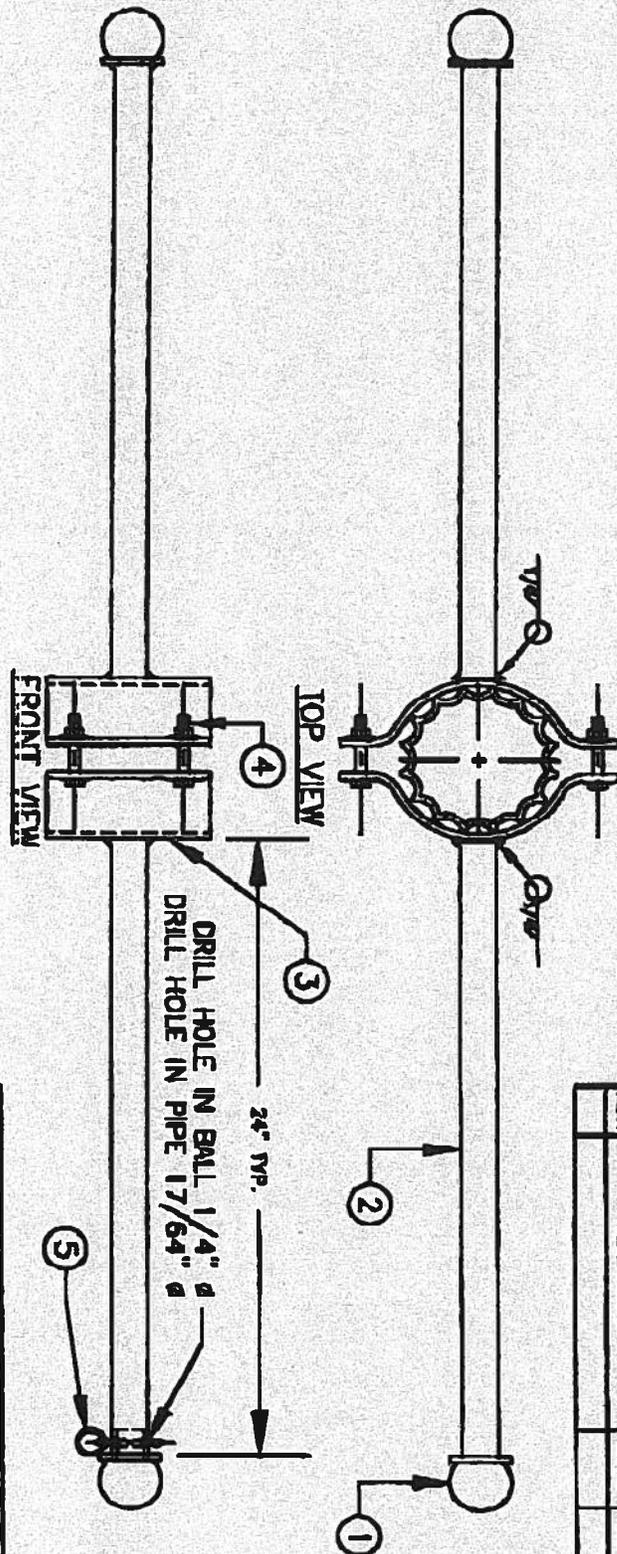
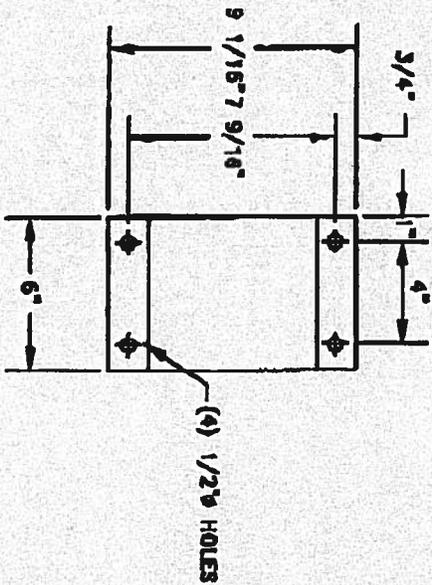
KING LUMINAIRE
CORPORATION
248 WALTERS AVE., P.O. BOX 7,
BRIMFIELD, MASSACHUSETTS 01501
U.S.A. 401-497-7100

DATE: 04/20/01	DRG. NO.: 50180005
DATE: 04/20/01	DRG. SCALE: 1:1
DRG. BY: [Signature]	DRG. NO.: 50180005
QUANTITY:	COLOR:
PROJECT: KAI4-7-2 NEW ORLEANS ARM	
DRAWING NO.: 50180005-2	
SHEET 07	

ITEM #3 DETAIL - TOP VIEW



ITEM #3 DETAIL - SIDE VIEW



REV.	ALTERATION	E.C.N.	DATE	BY

DRILL HOLE IN BALL 1/4" Ø
DRILL HOLE IN PIPE 17/64" Ø

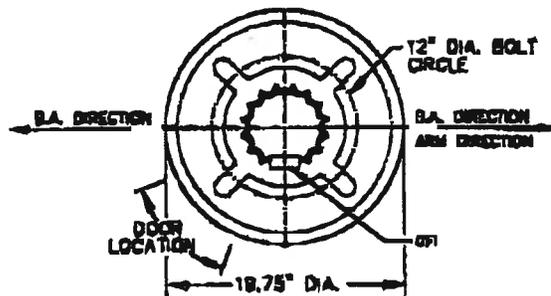
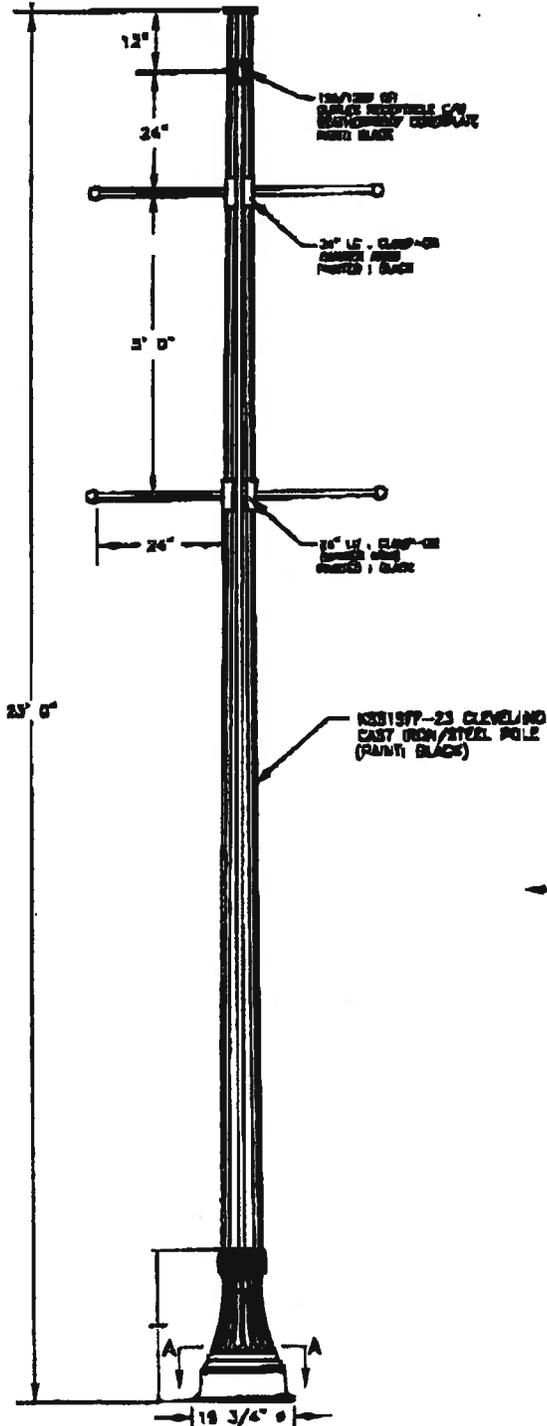
TOP VIEW

MANUFACTURING QUALITY
MANUFACTURING QUALITY
25010-9

REV.	ALTERATION	E.C.N.	DATE	BY
A	ADDED TWO MORE ARMS		052201	TB

KING U.S. ORDER NO.:
25029

CUSTOMER ORDER NO.:
12274-08-118283



SECTION A-A

CUSTOMER APPROVAL: _____

KING LUMINAIRE				
<small>KING LUMINAIRE, INC. P.O. BOX 7 SHELTON, CONNECTICUT, 06484 U.S.A.</small>				
DRAWING NAME: APPROVAL DWG	DWG NUMBER: 25029-1	DATE: 05/16/01	DWG BY: TB	REV. A
PROJECT/CUSTOMER: TOWN OF ACTON				

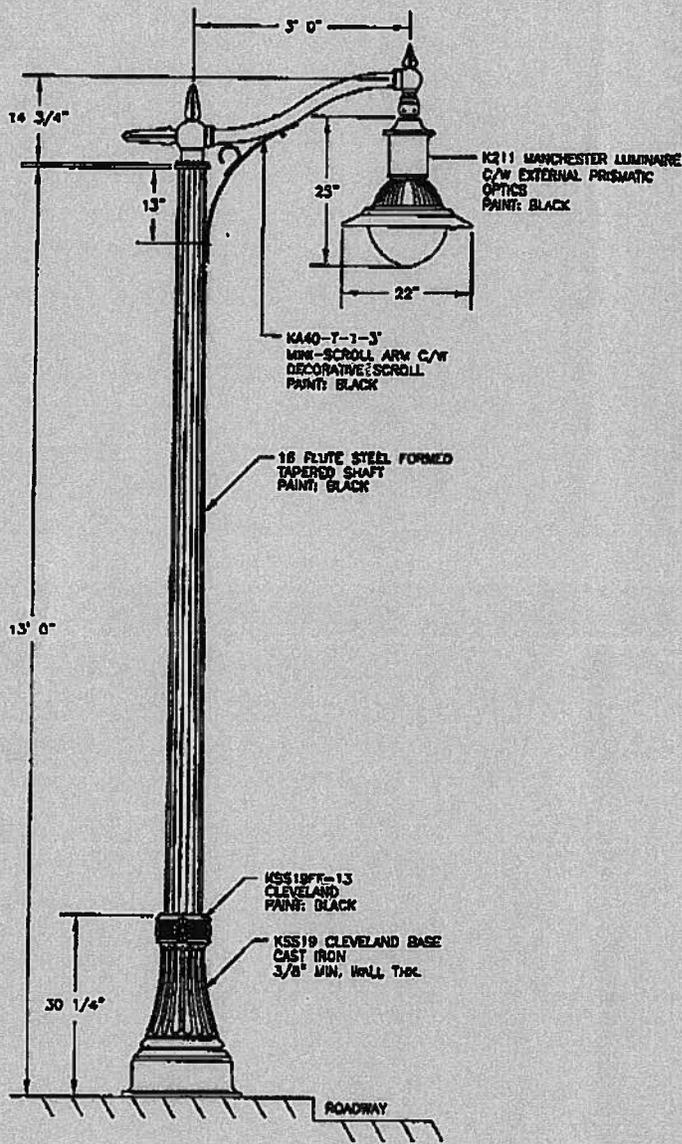
**Street Light – School Street Depot Parking Lot
South Acton**



TOP SIZE: 4 5/8"

REV.	ALTERATION	DATE	BY

10WD CARL ORDER NO. 9880	KING U.S. ORDER NO.: 33656	CUSTOMER ORDER NO. 9166884
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LUMINAIRE SPECIFICATIONS

CATALOGUE NO: K211-EGS-10-100MED)
-MM-1200MT-KPL10
QUANTITY: 3
OPTICAL SYSTEM: EXTERNAL GLASS PRISMATIC
IES L.T.C. CLASS: TYPE III
WATTAGE: 100W
SOCKET SIZE: MEDIUM
LIGHT SOURCE: METAL HALIDE
LINE VOLTAGE: 120V (MULTI-TAP)
PAINT: BLACK
OPTIONS: KPL10 LEVELING DEVICE
ANSI #90 LAMP BY OTHERS

BALLAST SPECIFICATIONS

	SUPPLIED	ALTERNATE
BALLAST TYPE:	HX-HPF	HX-HPF
BALLAST MANUF:	UNIVERSAL	ADVANCE
CATALOG NUMBER:	M000MLTLC3M	71A5390

OPTIONS

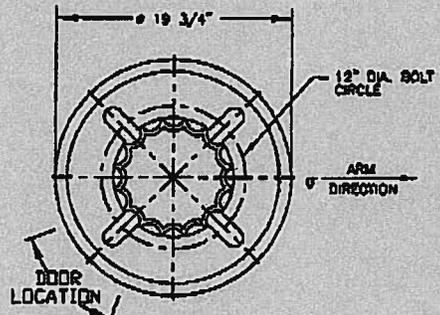
QUICK DISCONNECT PLEASE SELECT ONE
TERMINAL BLOCK
OTHER:

ARM SPECIFICATIONS

CATALOGUE NO: KA40-T-1-3'
QUANTITY: 3
MATERIAL: ALUMINUM
PAINT: BLACK

POLE SPECIFICATIONS

CATALOGUE NO: KSS19FF-13
C/V 140
QUANTITY: 3
PAINT: BLACK
BASE MATERIAL: CAST IRON
SHAFT MATERIAL: 16 FLUTED FORMED STL.
TENDON SIZE: 2" I.P.S. (2 3/8" O.D.) x 2 3/4" Lg
SHAFT TAPER: 0.14"/FT.
TOP SIZE: 4 5/8"
BUTT SIZE: 6 3/16"
OVERALL LENGTH: 13' 0"
ANCHOR BOLTS: (4) 1" x 36"
BOLT CIRCLE: 12" Ø



TOP VIEW

CUSTOMER APPROVAL: _____

 KING LUMINAIRE COMPANY INC. 540 WALKER'S LINE, P.O. BOX 7, BURLINGTON, ONTARIO, CANADA L7R 3K9 P.O. BOX 288 JEFFERSON, OHIO 1153 STATE ROUTE 42N U.S.A. 44047				
DRAWING NAME: APPROVAL DWG	DWG NUMBER 9880-1	DATE 6/30/06	DWG BY: ML.	REV.
PROJECT/CUSTOMER: ACTON			CHECKED BY: 	
VCC-ORDER\9880				

**Street Light – Town Hall Parking Lot
Acton Center**

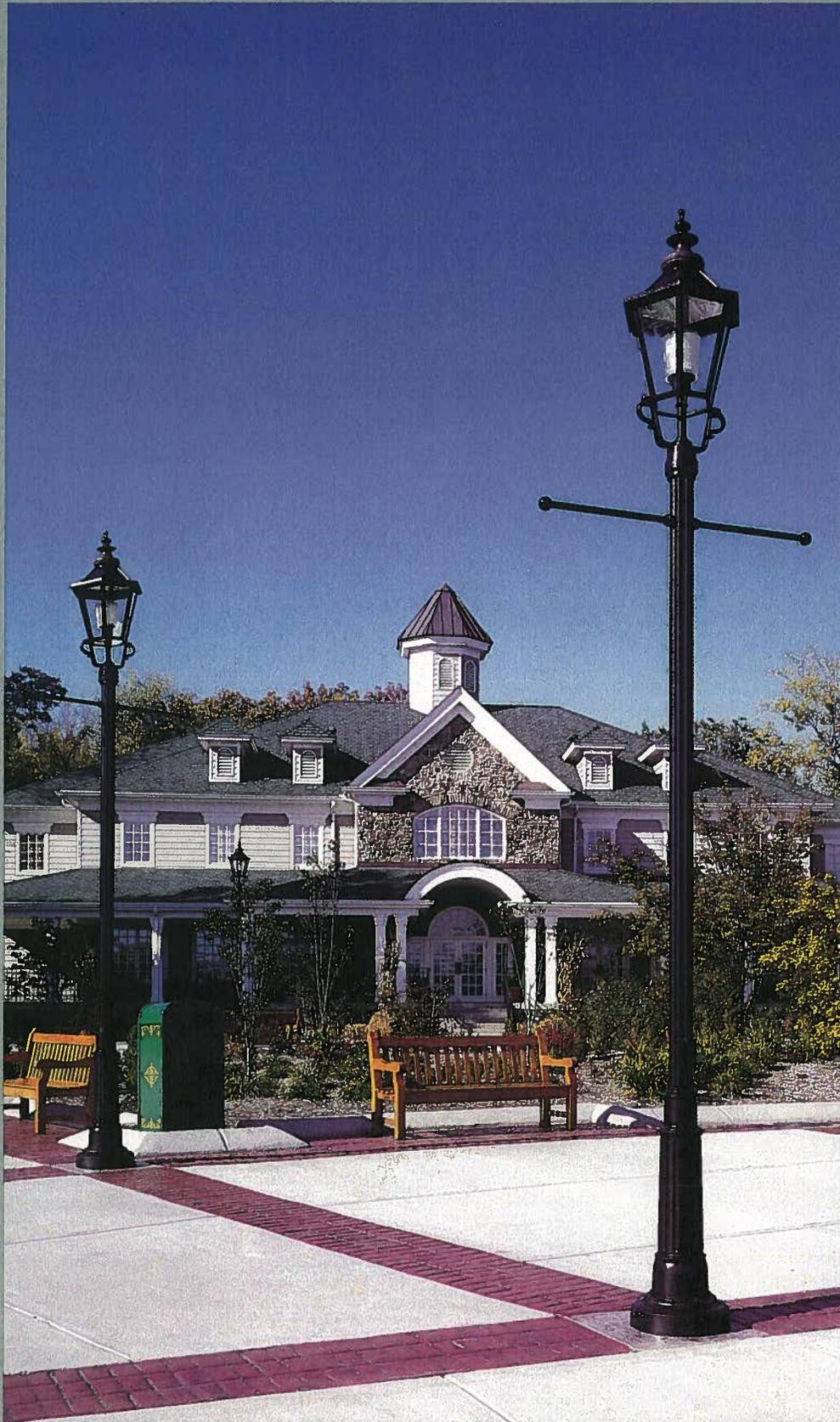


**Street Light - Main Street Bridge
South Acton**



Hexagonal Lantern Series

L24/L28/L60/L61



L24™-RR



L28™-SE



L60™-SE



L61™



Opryland L24™-RR-L80A

L24/L28/L60/L61

L24™, L28™, L60™ and L61™ luminaires feature a one-piece hexagonal tapered cast-aluminum housing with six fully-gasketed tempered-glass or polycarbonate lenses. Their cast-aluminum hood and decorative finial, as well as their spun-copper cupola are secured to the top of the housing by two built-in hinges.

Mechanically assembled onto a decorative one-piece cast-aluminum yoke-mount pole-top adaptor, the housing of the **L24** features a base with glass lens.

The housing of the **L28, L60 and L61** is mechanically assembled onto a cast-aluminum pole-top adaptor. The adaptor of the **L28** model can accommodate a ballast up to 175W.

The **L60** model is available with an optional luminous glow top (GT option) when used with an SG optical system.

Optical systems

These luminaires are available with a choice of optical systems including:

- an **RR** refractor,
- cut-off optics such as the **SE** which provides excellent optical performance with maximum light control,
- segmented **SG** (**L60** only) cut-off optics set in triple-stage, multi-faceted arc-image duplicating patterns which provide excellent performance and light control,
- a **RACE** optical system which enhances the performance of the refractor with a segmented upright recovery dome for hyper-extensive pole spacings.

Ease of maintenance

All luminaires are fitted with hoods that can be opened thanks to a captive screw.

As well, all feature a unitized ballast assembly with quick-disconnect terminals. For greater ease of maintenance, this assembly is either integrated into the housings or remote in the mounting or pole base, depending on the optics and lamp wattage (see lamp guide chart).

Lumital surface treatment

All luminaires, mountings and poles are protected by the **Lumital™** surface treatment, which involves the chemical treatment of all surfaces prior to the application of a coating of polyester-based textured powder for superior resistance.

Luminaire

The **L24™** luminaire consists of a one-piece cast-aluminum tapered hexagonal housing with six lenses on the side and one on the bottom as well as a decorative cast-aluminum hood and finial with spun-copper cupola. Its housing is mechanically assembled to a decorative cast-aluminum yoke-mount pole adaptor.

Though also similar to the **L24** model, **L28™, L60™** and **L61™** luminaires are mechanically assembled to a different decorative cast-aluminum pole adaptor. The base of the **L28** can accommodate a 175W ballast.

The **L60** is available with an optional luminous glow top (option GT) when used with an SG optical system.

L24, L28, L60 and L61 luminaires are UL and CSA approved.

These lanterns are available with the following lens finishes:

PCC: Clear Polycarbonate

PCO: Opal Polycarbonate

PCBR: Bronze Polycarbonate

PCFC: Frosted Clear Polycarbonate

GLC: Clear Tempered Glass

GLBR: Bronze Tempered Glass

GLCBG: Clear Bevelled Tempered Glass

GLBRBG: Bronze Bevelled Tempered Glass

Lamp Guide

Wattage	L24		L28/L61		L60	
	RR	SE/ RACE	RR	SE/ RACE	RR	SE/ RACE
70 MH	●	●	—	—	—	—
100 MH	●	●	—	—	—	—
175 MH	●	●	—	—	—	—
250 MH*	■	●	■	●	■	●
35 HPS	●	●	—	—	—	—
50 HPS	●	●	—	—	—	—
70 HPS	●	●	—	—	—	—
100 HPS	●	●	—	—	—	—
150 HPS	●	●	—	—	—	—
250 HPS*	■	●	■	●	■	●

● Remote ballast in mounting or pole base.
 ■ Not available.

* Tempered-glass lenses are required with these wattages.

L24™, L28™, L60™ and L61™ series luminaires accommodate H.I.D. or incandescent lamps as shown in the above table.

The UL or CSA-recognized CWA-type ballast features a -30F° (-34C°) lamp-starting capacity, a power factor of 90% or better and a regulation of lamp within ±10% of rated input voltage. HPS ballasts operate within ANSI trapezoidal limits.

The luminaire's hood pivots along one of the edges of the housing to permit easy access to the lamp and/or ballast.

The ballast is integrated in the hood of the luminaire, on a unitized ballast tray or is remote in the mounting of the pole base.

Optical Systems



RR optics

Round borosilicate refractor

RR5: Symmetrical (V)

RR3: Asymmetrical (III)

RR3D: Asymmetrical (III) with deflector



SE optics

Hydro-formed cut-off reflector system set in faceted arc-image duplicating patterns

SE5: Symmetrical (V)

SE4: Asymmetrical (IV)

SE3: Asymmetrical (III)

SG optics (L60 only)

Segmented cut-off reflector system set in faceted arc-image duplicating patterns

SGQ: Symmetrical (V)

SG3: Asymmetrical (III)

SG2: Asymmetrical (II)

SG1: Asymmetrical (I)

SGFM: Forward Throw



RACE optics

Round acrylic (100W max.) or borosilicate (150 to 250 W) refractor with segmented upright recovery dome

RACE5: Symmetrical (V)

RACE3: Asymmetrical (III)

RACE3D: Asymmetrical (III) with deflector

Other optical systems available

LN: Nickel-plated louvers

LB: Bronze-plated louvers

LMP: Lamp without optical system

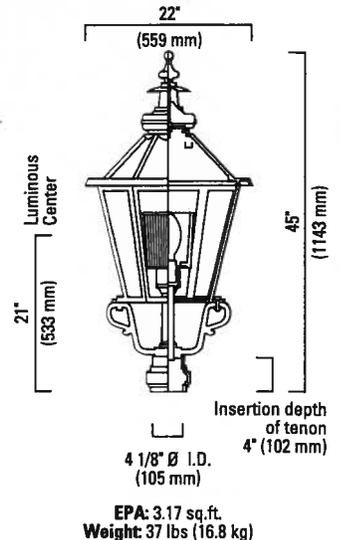
(Lamps not included)

For further information, refer to the *Photometric Guide*.

Ordering Sample

Lamp	Luminaire	Optical System	Voltage	Mounting & Configuration	Pole	Finish	Options
100 HPS	L24-GLC	RR	120V	CRC-2	R80-15	GN-TX	FS

Lumec reserves the right to substitute materials or change the manufacturing process of its products without prior notification.



L24-RR

Mountings

CR



Arms are made of a 2" x 4" (51 x 102 mm) aluminum extrusion. The **CR** luminaire support is a 4" (102 mm) round aluminum extrusion.

CRA



The **CRA** mounting consists of a decorative cast-aluminum arm welded to a rectangular 1" x 2" (25 x 51 mm) aluminum extrusion.

CRC



The **CRC** is made of a cast-aluminum arm welded to a rectangular 1" x 2" (25 x 51 mm) aluminum extrusion.

CRD



The **CRD** downward mounting is made of a one-piece cast-aluminum arm.

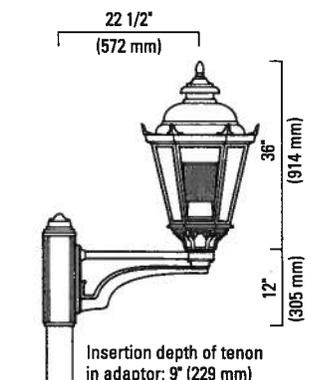
CRE

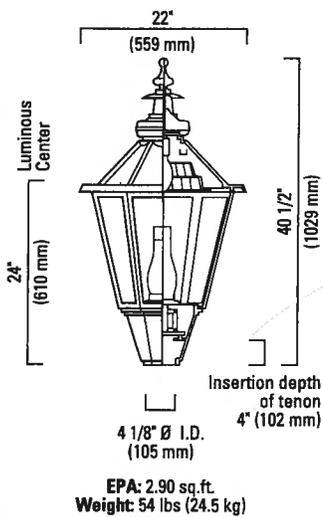


The **CRE** is a highly-decorative mounting made of a one-piece cast-aluminum arm.

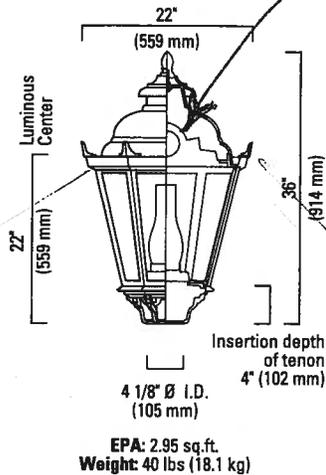
L60-CRC1A

L60 on CRC1A mounting

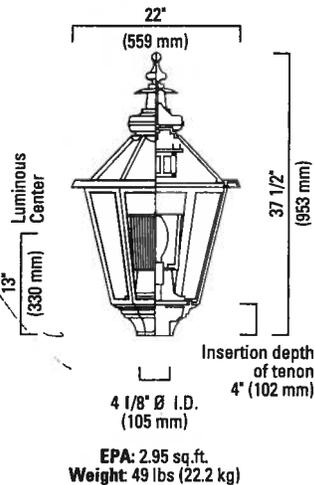




L28-SE

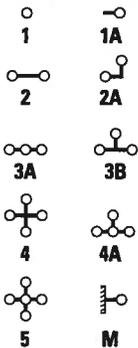


L60-SG-GT

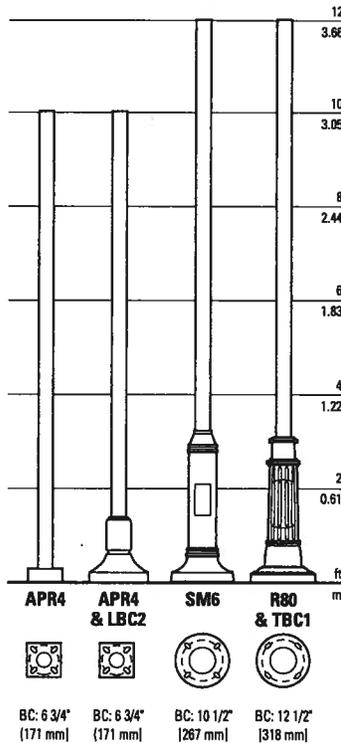


L61-RR

Configurations



Poles



Finishes

16 Standard Colors Available

The specially-formulated textured (TX) Lumital powder coat is available in a range of 16 standard colors. This unique coating of thermosetting polyester resins provides a highly-durable UV-resistant exterior finish as per ASTM G7.

Lumital coatings are specially formulated for outstanding salt-spray resistance according to ASTM B117 standards.

All surfaces are chemically treated using a four-step (aluminum) or seven-step (steel) process prior to painting. Consult Lumec for complete specifications.

SCL Special Color (liquid)

SCP Special Color (powder)

Provide a 4" (102 mm) square color chip.

It is possible to order smaller minimal quantities of powder paint at a premium. Your representative will be able to tell you if a powder coat paint can be developed for your project.

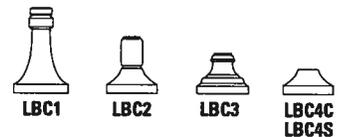
Please note that where quantities do not warrant it, Lumec reserves the right to use an oven-cured liquid polyurethane finish.

Options

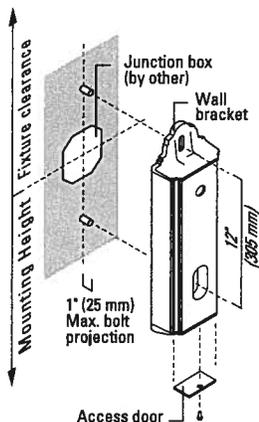
FS	Luminaire integrated fuse
GT	Glow top (For L60 only)
HS	House shield (For SE and SG optics only)
HB	Hinged base (APR4 & APS4 poles only)
DR*	Duplex receptacle (120 volts only)
GFI*	Duplex receptacle with ground fault interrupter (120 volts only)
PH	Photoelectric cell
LS*	Provision for loudspeaker outlet
BA*	Banner arm
IP	Interior paint (pole only, consult factory for applicable poles)
LBC	Optional base cover

* Consult factory for feasibility with cast-aluminum shafts.

Base covers for APR4 & SPR4 poles only (replace standard base cover).



Typical traditional wall mounting detail



Consult the Pole Guide for details.

Consult the Pole Guide for details and the complete line of poles.

L24/L28/L60/L61

At Lumec, blueprints have long since given way to functional reality and the performance of our products is proven and documented.

The following drawings illustrate a few of the many variations offered. All of these luminaires, unless noted, accept sources of up to 175 watts. Should you wish to interchange these components please contact our representative regarding feasibility.

VR numbers describe illustrated ballast housing, bracket, pole, base cover and configuration.

When ordering Versalux luminaires, use catalogue number substituting VR number for regular bracket and pole number.

The mounting height of the luminaire is indicated by identifying the height, in feet, of the light source above the ground. For a cluster, refer to the lowest source of the assembly.

An original concept can also be developed in cooperation with our technical services department.

*Banners are not included with Banner Arms.
Flower baskets are not included with hangers.*



To achieve a high level of customer satisfaction, Lumec designs and manufactures products according to the most stringent standards.

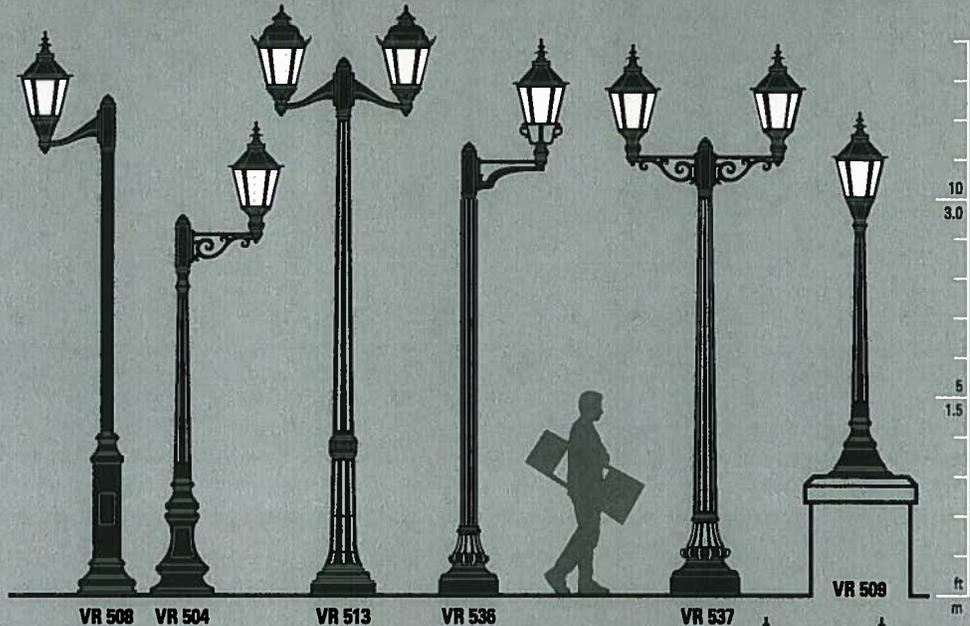
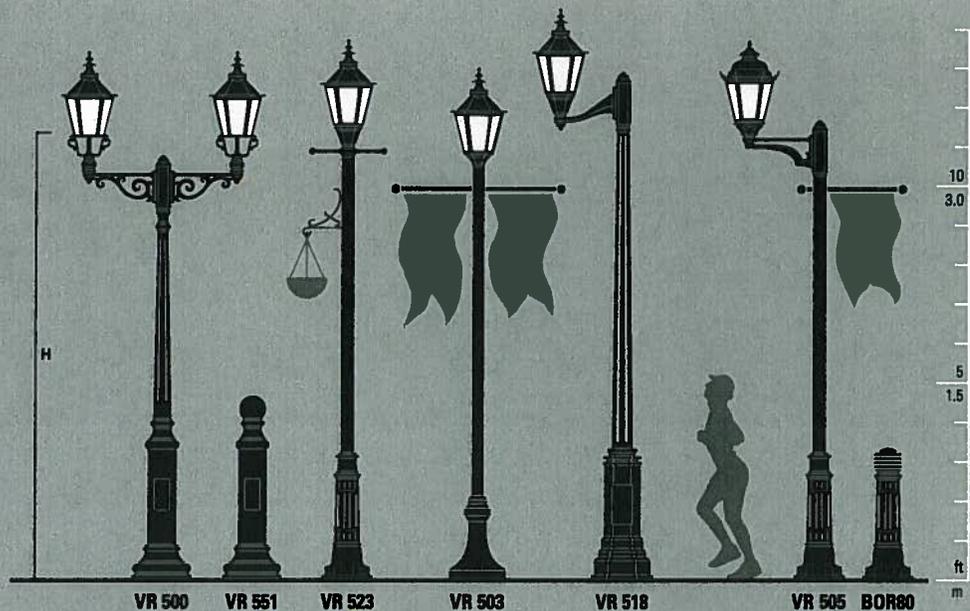
ISO 9002 Registered

The quality management system of Lumec is ISO 9002-94 registered with QMI.

640 Cure-Boivin
Boisbriand, Quebec
Canada, J7G 2A7

Tel : (514) 430-7040
Fax : (514) 430-1453

As of the end 1998 the area code will be 450.





\$2,500 +/- 200



L60 Series

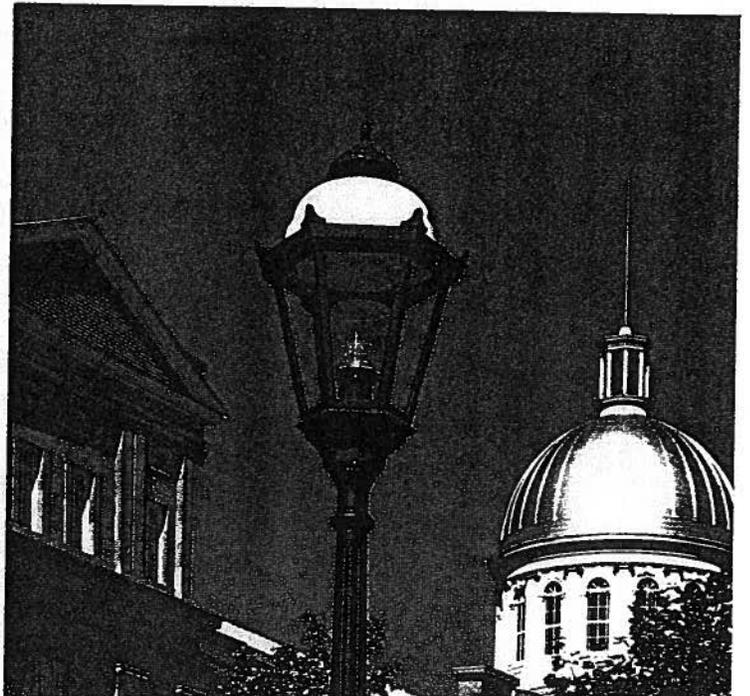
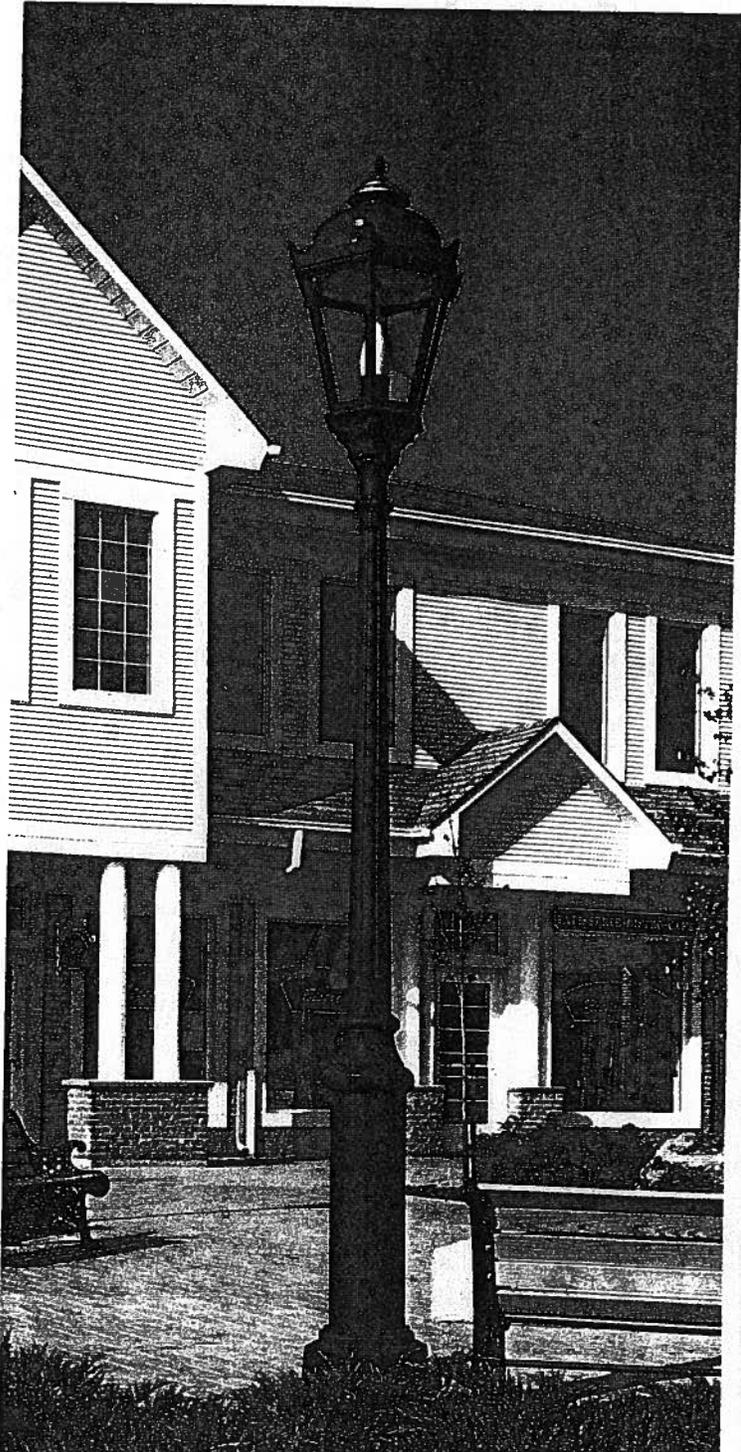
Designed to withstand the test of time, luminaires from the L60 series reflect the spirit of another time and are true to the character of their intended locations.

recreate as faithfully as possible those that once lit the streets of our towns and villages.

When you're called to move the past into the future, come to us first.

Produced with care and attention to detail, these units

REP. FOR
S & K ASSOCIATES
(617)-821-1700
CANTON, MA.
"JIM"



MEMO

Handwritten: DAns

TO: Don Johnson
 FROM: Anne Forbes, HDCYF
 DATE: 6/22/97
 SUBJECT: South Acton Bridge Lights

JUN 23 1997

At its meeting on June 16, the Historic District Commission reviewed the material you furnished us about possible lighting designs for the South Acton Route 27 Bridge. At that time we chose three designs to recommend, and delegated our Chairman, architect Tom Peterman, to specify accompanying poles that have a relatively narrow base. He also added the Lumec literature (enclosed), which includes one of the designs we recommend. Our recommendations, any one of which we feel would be appropriate for the bridge and the surrounding historic district, are as follows:

<u>Manufacturer</u>	<u>Head</u>	<u>Pole</u>	<u>Color</u>
Lumec	L60-Sg3	R78 - 12'	Black
Sternberg	Main Street-A (Page 9)	Springfield (4800-T) - 14' (Page 28)	Black
Sternberg	1910 Acorn (Pages 20, 21 55)	Richmond (3900-RRT) - 10' (Page 31) -- with single "candy cane" or 478 pm bracket mounting	Black

Other specifications:

Any of these fixtures shall be furnished with metal halide lamp and glass refractor with alzak reflector. All except the 1910 Acorn shall have clear polycarbonate or acrylic lens.

From what we could tell by the somewhat fuzzy xerox, two of these designs are quite close to ones in the MHD memo. They may even be by the same manufacturer--the memo did not give the name. We are recommending a different color, however, as well as a different type of light. Although dark green, as is specified for the bridge traffic signals, is a good color, the commission felt since these lights will be standing right next to the anti-missile fence, which is black, that black would be the better choice. Similarly, the members were unanimous in their preference for a white light, such as what is produced by metal halide, which is far more appropriate for the district than the sodium listed on the MHD memo. We will leave it to the engineers to specify the wattage.

I have not seen the price list for the Lumec fixture. As you will see by the Sternberg price list, the cost of each Sternberg head/pole combination that we have recommended appears to be cheaper than the estimate given on the MHD memo, so they should certainly be acceptable.

I am returning the literature that you lent us, and have added some pages from the Lumec catalog for the town files.

The Commission would appreciate it if you or David could notify us about the final selection, and let us know if any alterations to the recommendations are necessary.