

**MOORPARK CITY COUNCIL
AGENDA REPORT**

TO: Honorable City Council

FROM: Mary K. Lindley, Parks, Recreation & Community Services Director

BY: Roger O. Blais, Parks and Landscape Manager

DATE: February 19, 2009 (CC Meeting of March 4, 2009)

SUBJECT: Consider the Replacement of the Arroyo Vista Recreation Center
Gymnasium Lights

DISCUSSION

The Council is being asked to approve the replacement of the Arroyo Vista Recreation Center (AVRC) gymnasium lights. The proposed lighting fixtures will replace the existing 12 high energy consuming fixtures with new lights that are more energy efficient with that ability to generate a savings of 25 to 40 percent annually.

The initial design for the AVRC and Gymnasium Expansion Project included doubling the size of the existing gym. At that time, staff envisioned upgrading the existing lights with more energy efficient lights to match the new expansion. For budget reasons, the project's final scope of work was scaled back by postponing the gym expansion and proceeding with the expansion of the recreation center only.

The existing light fixtures are 400 watt metal halide lights that were installed at the time the gym was built in 1993. They have exceeded their life span, expend more energy than lights available today, take approximately 5 to 6 minutes to fully illuminate, and no longer provide sufficient illumination of the court area.

The replacement lights proposed by staff were specified in the lighting design prepared by WLC Architects, Inc., the City's architect for the expansion project. The new light fixtures are compact fluorescents and will offer smart features for simple and safe use that will provide instant on, photo metrics that will provide the appropriate level of illumination, a dimmer switch that will allow staff to adjust the light level when activities such as dances take place, and they are easy to install and maintain.

Staff solicited bid proposals to perform the work and the following three cost proposals were received:

<u>Contractor</u>	<u>Bid Price</u>
DNA Electric	\$23,095
Helm Electric	\$26,320
Gonce Electric	\$32,000

The lowest qualified bidder is DNA Electric. It is anticipated that the work will take three days with no disruption of gym court time.

The initial draft of the FY 2008/09 budget included \$50,000 to replace the gym bleachers. During the Council's budget discussions, it was suggested that the bleacher project be eliminated. The project was to be funded by the Park Improvement Fund – Citywide Fund (2100). The Council concurred with the recommendation but in error, the expenditure was not removed from the adopted budget. Staff proposes using \$36,500 (\$23,095 plus a 15% contingency) of the bleacher project. As a result, the budget does not need to be amended and the existing project account number would remain the same. With Council's approval, the project description would change.

FISCAL IMPACT

There will be no impact to the General Fund. Staff proposes using a portion of the funds allocated for gym bleachers in the FY 2008/09 budget. The funding source is Park Improvement Fund – Community Wide Zone (2100).

STAFF RECOMMENDATION

1. Approve the replacement of the AVRC gym lights.
2. Award a contract to DNA Electric and authorize the City Manager to execute a contract at a cost not to exceed \$23,095; and
3. Authorize the City Manager to amend the contract for project contingencies in an amount not to exceed \$3,450 if and when the need arises for extra work and services.

Attachments: Exhibit A – Manufacturer's Light Specification



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LX-SERIES

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- Instant On
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- No Color Shift
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- White Ballast Housing – Standard

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DATA SHEET

LX-Starliter Designer Series High-Bay

For style, functionality and energy efficiency, the LX Starliter High-Bay from Sportlite provides versatile, natural up-light that is perfect for "warehouse type" retail stores, shopping centers, general retail space and high tech manufacturing facilities. The LX800 with 42 watt compact fluorescent lamps (CFL) supply 25,600 lumens and 85 percent lumen maintenance to ensure products will never be left in the dark.

Stylish Effect

Sportlite offers a stylish alternative to standard acrylic- or glass-type HID fixtures with the new LX Starliter High-Bay. Featuring an eye-pleasing ballast housing and reflector, the LX Series virtually eliminates hot spots and color shifts typical of metal halide lighting fixtures. Multiple point sources of light within each luminaire reduce the glare often associated with standard HID high-bay fixtures.

Mood Lighting

The LX Series sets the tone for any application, offering a wide variety of lamp color temperatures to create the desired effect or match existing lighting. These high-CRI (82-84) lamps

produce a more natural lighting effect. The LX Series provides comfortable even light, a larger light spread, minimal shadowing and no stroboscopic effects. Individual pairs of lamps can be turned off to lower light levels and to reduce energy consumption.

Smart & Functional

The LX Series offers smart features for simple and safe use. Its modular construction featuring "AMP" snap lock electrical connectors and "spring-clip" secured ballasts allows easy installation and maintenance with minimal tools. The "instant on" feature allows control over pairs of lamps within an individual luminaire. Choose sensor-controlled, four level stepped dimming for an efficient and inexpensive way to lower light levels and save energy, without changing the photo-metrics of the fixture.

Energy Efficient

The energy saving, compact fluorescent LX800 Designer Series High-Bay is a must-have replacement for the high energy consuming, old standard HID style high-bay fixture. Realize an average 25 to 40 percent energy savings compared to 400 watt HID fixtures. This low heat lighting system is excellent for use in applications sensitive to the higher heat factor associated with 400 watt HID fixtures. It may also have a positive affect on air conditioning costs.

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SPECIFICATIONS

Starliter

Input Watts: 336 Watts +/- 3% with 42w Lamps
Luminous Efficacy: $\frac{42w}{88.6 \text{ lm/w} @ 277V}$

Initial Lumens per Lamp: $\frac{26w}{1,800}$ $\frac{32w}{2,400}$ $\frac{42w}{3,200}$ $\frac{57w}{4,300}$ $\frac{60w}{4,000}$ $\frac{70w}{5,200}$ $\frac{85w}{6,000}$ $\frac{120w}{9,000}$

Total Initial Lumens: 25,600 W/(8) 42 Watt Lamps

Lumen Maintenance: 85%

Efficiency: 81.3% of rated lumens

Color Temperature: 3,000k, 3,500k, 4,100k

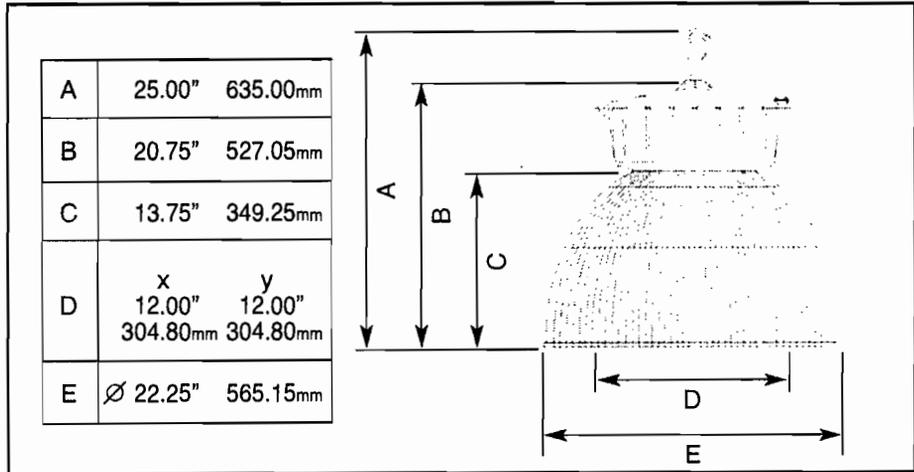
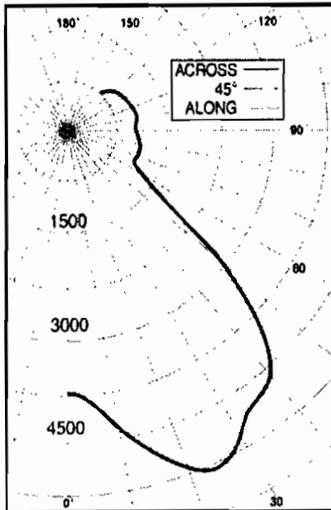
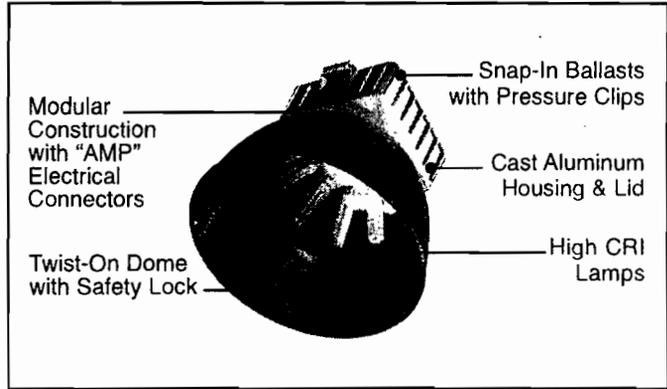
Color Rendering Index: 82 - 84

Lamp Life: UP TO 20,000 hours

Base: GX24q-4 + 2G8

Electronic Ballast: 90BF, PF=99, THD<2%

Weight: 16-18lbs depending on Ballast used
 Suitable for 40°C Ambient



Ordering Information (Example - LX8-T42-41K-22LEXCP-22CLP-277-4SL-3PEN-EP94-SC)

Series	Lamp Type	Lamp Color	Dome Type	Lens Type	Voltage	Switching
LX8 LX800 (8 Lamps)	T26 26 Watt	27k (26w Only)	22LEXCP 22" Clear Prismatic Poly	22CLP 22" Conical Poly Prismatic	120	1SL 1 Switch Leg
LX8CC LX800 Custom Color	T32 32 Watt	30k		22DL3P 22" - 3" Drop Poly Prismatic	208	2SL 2 Switch Legs
LX6 LX600 (6 Lamps)	T42 42 Watt	35k		22FLP 22" Flat Poly Clear	277	3SL 3 Switch Legs
LX6CC LX600 Custom Color	T57 57 Watt	41k			347 - (Extra Charge)	4SL 4 Switch Legs
LX4 LX400 (4 Lamps)	PLH60 60 Watt					PB2S PulseBloc (1 to 4 switch legs) Single Zone
LX4CC LX400 Custom Color	T70 70 Watt					PB2DS PulseBloc (Dimming - To be used with one DM42-2M7 Dimming Ballast) Single Zone
LX3 LX300 (3 Lamps)	PLH85 85 Watt (Maximum 4 Lamps)					PB2M PulseBloc (1 to 4 switch legs) 2 to 4 Zone
LX3CC LX300 Custom Color	PLH120 120 Watt (Maximum 4 Lamps)					PB2DM PulseBloc (Dimming - To be used with one DM42-2M7 Dimming Ballast) 2 to 4 Zone
LX2 LX200 (2 Lamps)						
LX2CC LX200 Custom Color						

*Cannot use lens with lamps above 42W in LX8

Mounting Options NOTE 1	Emergency Ballast Options (lm=lumens) NOTE 2	Dimming Ballast Options NOTE 3, 4, 5	Accessories
3PEN Pendant by Others	EP42 IOTA I-42B, One Lamp, 32w-650 lm, 42w-750 lm, IM	DM42-2M7 Advance, Mark VII, 32/42w - Two Lamps, 57/70w - One Lamp, - NOTE 4	SC 6' Safety Cable to Ballast Box
H Male Hook	EP42SD IOTA ISD-420A, One Lamp, 32W-1050 lm, 42w-1300 lm, 57w-1160 lm, 70w-1200lm, Self-Diagnostic, EX	DM42-2MX Advance, Mark X, 32/42w - Two Lamp, 57/70w - One Lamp, - NOTE 3	22XWG Wire Guard
C Single Circuit Cord 6'	EP420 IOTA I-420A, One Lamp, 32w - 1050 lm, 42w-1300 lm, 57w-1160 lm, 70w-1200 lm, EX	DM42-2SE Lutron Compact SE, 42w - Two Lamps, - NOTE 5	22XWV Wire Guard (For Use with Conical Lens)
CM Multi-Circuit Cord 6'	EP75C Bodine B75C, One Lamp, 32w-600 lm, 42w-800 lm, 57w-1150 lm, 70w-1300 lm, EX	DM32-2SE Lutron Compact SE, 32w - Two Lamps - NOTE 5	FWG Full Wireguard (Covers Entire Reflector)
HC Male Hook & Single Circuit Cord 6'	EP160 IOTA I-160, Two Lamp 42w- 3000 lm, One Lamp 57w-2700 lm, One Lamp 70w-2800 lm, EX	DM32-2TU Lutron, Tu-Wire, 32w - Two Lamps - NOTE 3	FU In-Line Fuse (One Per Switch Leg)
HCM Male Hook & Multi-Circuit Cord 6'	EP94 Bodine B94C, 750 Lumens, 42w-One Lamp, IM		DMC Dual Mounting Crossbar
HCP Male Hook, Single Circuit Cord 6' & Straight Plug	EP30 Bodine B30, Two Lamp, 42w-3500 lm, One Lamp, 42w-3200 lm, EX		BBSW Ballast Box Shroud - White
HCPL Male Hook, Single Circuit Cord 6' & Locking Plug	GTD Bodine, Generator Transfer Device, IM		BBSC Ballast Box Shroud - Custom Color
HCMPL Male Hook, Multi-Circuit Cord 6' & Locking Plug			

Note 1: Plug Not Available with 4 Switch Legs.
 Note 2: EX = External Mount, IM = Internal Mount, Consult Factory for DM/Cord/Plug Compatibility.
 Note 3: Advance Mark X and Lutron Tu-Wire Ballasts Require a 2-Wire Wall Dimmer.
 Note 4: Requires a 2-Wire 0-10 Volt Dimmer in addition to the Normal Hot, Neutral and Ground.
 Note 5: Requires one control wire in addition to the normal hot, neutral & ground.
 Note 6: If specifying PulseBloc consult PulseBloc specification guide.