

**GLENBROOK HIGH SCHOOLS
District Business Office**

TO: Dr. Riggle

FROM: Kimberly L. Ptak

DATE: December 12, 2011

RE: DISCUSSION/ACTION: AWARD of LED Lighting Bid

Recommendation

It is recommended that the Board of Education award a bid for LED lighting at Glenbrook North and Glenbrook South in the amount of \$40,358 to Northwest Electrical Supply.

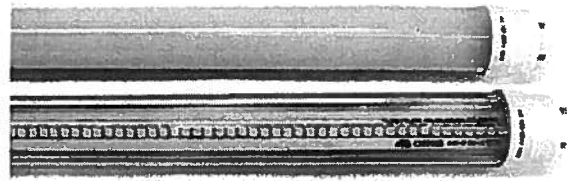
The district received a grant from the Department of Commerce and Economic Opportunity in the amount of \$30,269, making the cost to the district \$10,089. The bulbs have a 5-year warranty.

Background

GBN has emergency corridor fixtures with approximately 400 light bulbs, while GBS has approximately 450 of these bulbs. These emergency lights are on 24 hours a day, 7 days a week and are currently lit with 34 watt fluorescent bulbs. The project will replace the fluorescent bulbs with energy efficient, 17.5 watt LED bulbs. Based on the longer life of the LED bulbs, estimated to last 5 times longer than fluorescent, and the decreased wattage, annual energy savings is estimated at \$36,400. With the grant, the payback is 3.3 months.

The cost of the project is only for the light bulbs, the GBN and GBS maintenance crews will replace the lights.

<u>Bid Results</u>	<u>Total</u>
Northwest Electrical Supply	\$40,358
LED Lighting, Inc.	\$40,800
W.W. Grainger Inc.	\$42,500
Steiner Electric	\$44,000
Twin Supplies, LTD	\$45,331



PRODUCT DESCRIPTION

THIS LED PRODUCT IS DESIGNED TO REPLACE T8 AND T12 FLOURESCENT TUBES. WITH SUPERIOR TECHNOLOGY AND PERFORMANCE, LLI-T-8 LAMPS PROVIDE THE USER WITH SIGNIFICANT SAVINGS IN ENERGY AND MAINTENANCE COSTS, WHILE REDUCING OVERALL IMPACT ON THE ENVIRONMENT.

SPECIFICATIONS:

- Retrofits into most fluorescent lamp fixtures with ballast removed
- Length: 4'/120cm
- **LLIT8-48-18-100/277-xx-4100-xx-xx-x**
3995K=1617LM at 17.8 Watts
Lumens Per Watt (LM/W)=90.75
Color Rendering Index (CRI)=79.5
- **LLIT8-48-18-100/277-xx-5000-xx-xx-x**
5075K=1679LM at 17.5 Watts
Lumens Per Watt (LM/W)=95.63
Color Rendering Index (CRI)=80.2
- Color Temperatures Available: 3000K, 4100K, 5000K, 6000K, 6500K
- Harmonic Frequency 50HZ
- Power Factor > .94
- Surge Supression to 470VAC
- Voltage: universal 100 VAC to 277 VAC
- Temperature Range: -20°C to +70°C
- Weight: 430 Grams/.93 lb.
- UV stabilized V1 rated shatter proof tube
- 5 Year Warranty



BiPin(BP)

SinglePin(SP)

HighOutput(HO)

FEATURES:

- Operating life of 50,000 + hours
- Beam Pattern 120°
- 180° Rotatable End Cap
- No ballast required
- Mercury and lead free
- UV Free: will not fade carpets, furniture or walls
- Both clear and frosted lenses available
- Custom sizes available with nominal set-up fees
- Remote power supplies available - 350MA
- Voltages available 24VDC, 12VDC
- Every lamp serial numbered in data base
- Tightly binned LEDs utilized in production to ensure uniformity of color from tube to tube

CERTIFICATIONS & COMPLIANCE:

- UL Classified US and Canada E345362
- UL Component Recognized US and Canada E345360
- UL Polycarbonate Resin Lens
- UL PCB Board
- RoHS Compliant
- Meets V1 flame rating
- Patent Numbers 7,049,761 and 7,510,299
- Patent Pending US 61/479,801
- Lighting Facts
- LM-80 Tested
- IES LM-79 Tested. Independent laboraory tests that verify our performance claims. Reports available upon request for 4'- 4100K and 5000K

MODEL #	LENGTH	WATTAGE	VOLTAGE	LENS	KELVIN TEMPERATURE	POWER	SOCKET (specify R for rotatable)
LLIT8	24-48-96	10-18-36	100/277	FR-CL	3000-4100-5000-6000	P1-P2	BiPin(BP)-SinglePin(SP)-(HO) (R)

JOB NAME:

Quantity
Ordered:

LED Lighting Inc. 3575 Commercial Avenue, Northbrook, IL 60062
PHONE: 847-412-4880 FAX: 847-412-4881 sales@ledlightinginc.com
www.ledlightinginc.com

Signature