F5

HIAWATHA FIRE-RESCUE

MEMORANDUM

TO: HONORABLE MAYOR, HIAWATHA CITY COUNCIL, CITY ADMINISTRATOR

FROM: MIKE NESSLAGE, FIRE CHIEF

SUBJECT: LED LIGHTING UPGRADE FOR FIRE STATION

DATE: 11/17/2016

This memo is to request approval for the second portion of our lighting project, replacing the lights in the apparatus bay. The lighting at the fire station is 16 years old. As you are well aware, the technology of lighting has improved considerably over that time period. The bay is not as bright as we would like, we must rent a lift when we replace the bulbs, and they are slow to come to full brightness. Last year you included $17,000 in the CIP for lighting upgrades at the fire station. We spent $5,750 on the exterior, so we have the remaining $11,250 available.

We asked each vendor to provide a quote for replacing the all the interior lights in the apparatus bay area only. This consists of replacing 33, 150 watt metal halide bulbs with LEDs. The quotes are as shown below. Premier is the lowest quote.

I am asking you to approve $8,400 from already allocated CIP money for this to replace the apparatus bay lights with LEDs.

Quotes:

Premier $8,400
Munson $8,695
Hawkeye $16,754

Premier ELECTRICAL SERVICES

It's what we do!

106 Emmons Street
Hiawatha, Iowa 52233

Price Quote

Date: November 3, 2016
Location: Hiawatha Fire Department
Attention: Fire Chief, Michael V. Nesslage

Project description: Small Wall Pack Lights

- Demo (33) 2x2 fixtures in the apparatus bay and dispose of.
- Provide and install (33) 2x2, 4000k LED fixtures in same location as fixtures that were removed.
- Provide lift for above scope.
- No tax has been included in this price quote.

Estimated cost: $8,400.00

Notes:

1. **All work to be performed during normal business hours of 7am – 3:30 pm.**
2. **Trucks will need to be rotated in and out to access each bay.**
3. **Thank you for the opportunity to quote this project, it is good for 30 days.**

This quote has been accepted by:
Print Name: _____
Sign Name: _____
Today's date: _____

Brian Huelsenbeck
Project Manager
Premier Electrical Services Co
319-784-8004 cell
319-393-4531 office
319-393-4532 fax
brian@premierelectricalservicesco.com
www.premierelectricalservicesco.com

Project Name:	
Catalog Number:	Fixture Type:
Volts / Watts:	Lamps / Board:

GRID FRAME HIGH BAY FROSTED- 95W LED

RECESSED HIGH BAY

FEATURES

- 2x2 Recessed Grid High Bay
- **Specification Grade for New Construction or Renovation of any Building**
- .040 Aluminum Prepainted Housing
- **Standard Configuration**
  - No Lens
  - No Wire Cage
- Frosted Lens Option Available
- Polycarbonate Lens Option Available
- Wire Cage Option Available
- Flange Kit Option Available
- 0-10V Dimmable Driver*
- ETL Listed
- **DesignLights Consortium® Qualified**

**To Ensure Lead Wires Are Attached, "DIM" Call Out Is Required When Building Part Number*

LED SYSTEM

Calculated L_{70} (TM-21)	**>100K** (1)
Delivered Lumens	**10,562 lm**
Total Input Watts	**96 W**
Luminaire Efficacy Rating (LER)	**111 lm/W**
Correlated Color Temperature (CCT)	**5000 K**
Color Rendering Index (CRI)	**>80**
Max Ambient Temp	**120° F**
Universal Driver	**120-277 V**

*LED System data above based on an estimate of GH22-95WLED-UNIV-5000K-FRL

SUITABLE APPLICATIONS

- Gymnasium
- Multipurpose Room
- Car Dealership
- Racquetball Court

Intertek

ORDERING GUIDE:

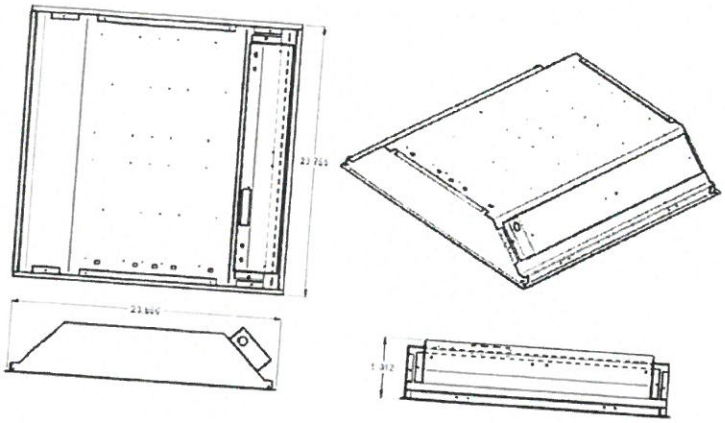
GH22	95WLED	UNIV	5000K	[illegible]
Series	**LED**	**Driver**	**Color**	**Options**

Series	LED	Driver	Color	Options	
☐ **GH22** High Bay 2ft	☐ **95WLED**	☐ **UNIV** 120-277 Driver	☐ **4000K**	☐ **SD480**	480V Step Down Transformer
			☐ **5000K**	☐ **SD347**	347V Step Down Transformer
				☑ **FRL**	Frosted Acrylic Lens
				☐ **PCL**	Polycarbonate Lens
				☐ **FLGK**	Flange Kit
				☐ **WC**	Wire Cage
				☐ **G***	Single Gasket
				☐ **G2***	Double Gasket
				☐ **G3***	Triple Gasket
				☐ **DIM**	Dimming Leads Installed

*Does not make fixture wet location or dust tight rated

GRID FRAME HIGH BAY FROSTED- 95W LED

RECESSED HIGH BAY



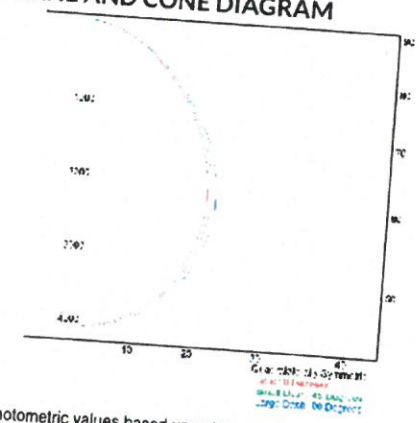
GH22-95WLED-UNIV-5000K-FRL

LUMINAIRE OUTPUT = 10185.29 Lms
120.0V 0.8040A 95.50W PF=0.989

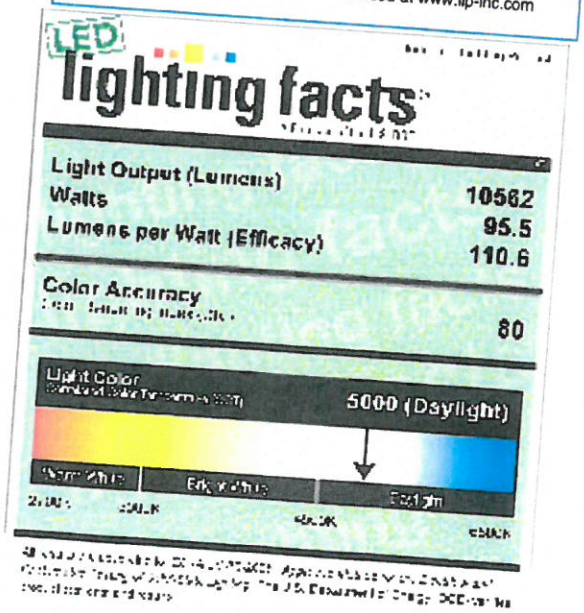
SUMMARY DATA

HEMISPHERES TESTED:	BOTH
EFFICIENCY (Total):	100.0%
EFFICIENCY (Downlight):	100.0%
EFFICIENCY (Uplight)	0.0%
CIE CLASSIFICATION:	DIRECT
SPACING CRITERION:	1.19
SPACING CRITERION:	1.24
LUMENS/LAMP:	10185.29
NO. OF LAMPS:	1
LUMINOUS OPENING:	RECTANGULAR
WIDTH:	1.83(FEET)
Length:	1.83
Height:	0.00
INPUT WATTS:	95.5014

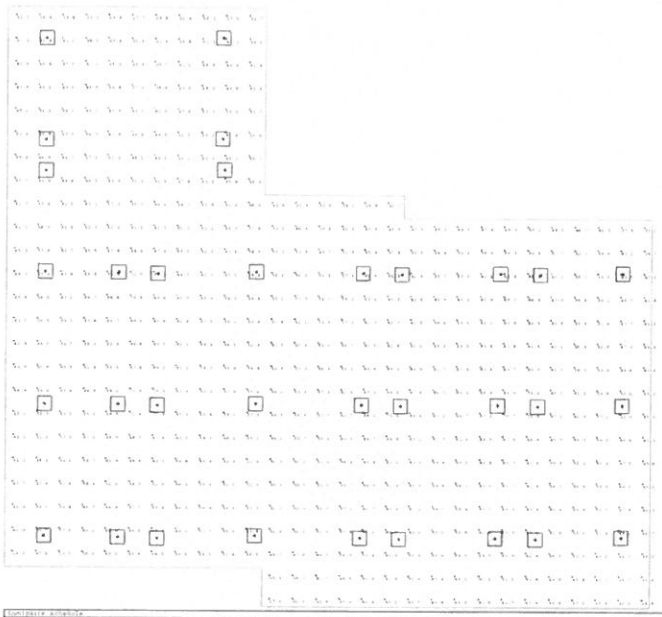
PLANE AND CONE DIAGRAM



Photometric values based upon tests performed in compliance with LM-79. IES files can be downloaded at www.ilp-inc.com



Visit www.lightingfacts.com for the Label Reference Guide.



Luminaire schedule

Symbol	Qty	Label	Arrangement	Total Lamp Lumens	LLF	Description
	21	Nu. FSW (NIV-SIZE PS)	SINGLE	N.A.	1.000	Nu. FSW (NIV-SIZE PS)

Calculation Summary

Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
Room 1 Workplane	Illuminance	Fc	54.79	92.5	26.8	2.04	3.71

Munson Electric Inc.

925 N Compton Dr
Hiawatha,Ia 52233
Phone (319) 364-6654 Fax (319) 364-4913

DATE October 17, 2016
Quotation # 1859
Customer ID

Submit To: Hiawatha Fire Dept.
101 Emmons Street
Hiawatha, Iowa 52233

Quotation valid until: October 17, 2016
Prepared by: Dan Ries

Description	AMOUNT
Electrical work to replace interior lighting in the Hiawatha fire station as per walk through with Michael Nesslage	
Scope of Work -remove 33 existing 2 by 2 fixtures in ceiling of shop area -use existing wiring and wire to new 2 by 2 LED fixtures installed in old locations	
Material	$7,415.00
Labor	$1,280.00
Notes -we will need to coordinate moving of trucks out of garage when we replace the fixtures -all new fixtures will be 5000K light color -allow time to order fixtures when scheduling project -fixtures quoted are ILP brand, 11,806 lumens, 96 watts per fixture -quoted price does not reflect Alliant rebate	
Subtotal	$8,695.00
Sales Tax	$608.65
TOTAL	$9,303.65

If you have any questions concerning this quotation, contact
Dan Ries 319-432-4962, Office 319-364-6654

Thank You For Your Business!

HAWKEYE ELECTRIC
1711 Hawkeye Dr. * Hiawatha, IA 52233
Phone (319) 743-9891 Fax (319) 743-9893
nickm@hawkeye-electric.com

Hiawatha Fire Department

Attn: Chief Mike Nesslage

RE: Apparatus Bay - LED Lighting

Date: 11/8/2016

SCOPE:

- Provide labor to remove and dispose of (33) 400W HPS light fixtures from the Apparatus Bay
- Provide and install (33) 2'x2' 70W LED light fixtures in Apparatus Bay

*****Fixtures to be tied into existing lighting circuits - No labor or material is included for re-working of or additions to the existing light circuits**
*****No labor or material is included for re-working of ceiling grid structure or for replacement of ceiling grid tile**

BASE PRICE: $16,754.00

Pricing Includes:

- Material
- Labor
- Aerial Lift

Thanks,

Nick Morris

DRAFT

RESOLUTION NO. 16-
City Council

RESOLUTION AUTHORIZING THE FIRE DEPARTMENT REPLACEMENT OF INTERIOR LIGHTING FOR THE FIRE STATION APPARATUS BAY

WHEREAS, The Fire Department has the need to replace the interior lighting in the fire station apparatus bay to upgrade the current lighting which is 16 years old, and

WHEREAS, the Fire Chief solicited proposals and after receiving and reviewing proposals from three (3) qualified companies, hereby recommends the lowest responsive responsible bid as follows:

Company	Lights	Total Cost
Premier Electrical Services of Hiawatha, Iowa	(33) 2X2, 4000k LED light bulbs	$8,400.00

, and

WHEREAS, City Council deems it necessary to update aging fixtures at the fire station to keep the city facilities in good condition and provide adequate lighting, and authorizes the purchase of interior lighting in the fire station apparatus bay in an amount not to exceed $8,400.00, and

WHEREAS, funding for the purchase and installation of interior lighting for the fire station was previously budgeted in the Capital Improvement Plan (CIP), and

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF HIAWATHA, IOWA, to authorize the purchase and installation of interior lighting for the fire station apparatus bay at a total cost not to exceed $8,400.00, with Premier Electrical Services of Hiawatha, Iowa, utilizing available funding in Capital Improvement Plan (CIP).

AYES:
NAYS:
ABSENT:

PASSED AND APPROVED this 7th day of December, 2016.

_____
Bill Bennett, Mayor

ATTEST:

_____
Kelly Kornegor, City Clerk