

University of South Carolina  
Career Center at Thomas Cooper Library  
Columbia, SC

University Project No. H27-I998-A  
Architect's Project No. 12.130.03  
Addendum No. 2

Quackenbush Architects + Planners  
1217 Hampton Street  
Columbia, South Carolina 29201

April 25, 2013

**ADDENDUM NO.2**

The following items shall take precedence over the drawings and specifications for the above named project and shall become a part of the contract documents. Where any item called for in the specifications, or indicated on the drawings, is not supplemented hereby, the original requirements shall remain in effect. Where any original item is amended, voided or superseded hereby, the provisions of such item not specifically amended, voided or superseded shall remain in effect.

**ATTACHMENTS**

Documents: SWMBE Subcontractor Report  
Carolina Architectural Lighting and Design light fixture submittal for approval  
Pre-Bid Meeting Sign-in Sheet

**GENERAL**

1. The next site visit for GCs and Subs to view existing conditions shall be scheduled for **10:30am on Monday, April 29, 2013**. Site tour shall be led by Mr. Tim Harmon (USC) and interested parties shall meet at the lobby entrance on the Main Level of the Thomas Cooper Library. Mr. Harmon can be reached at (803) 673-8894.
- A. CHANGES TO TECHNICAL SPECIFICATIONS AND DRAWINGS:

**SPECIFICATIONS**

No changes.

**DRAWINGS**

**Item No.**    **Description**

1. Reference: E6.1  
The prior approval fixtures by Presolite Types R3 and R5 catalog #LF6 series submitted by Carolina Architectural Lighting and Design are approved for use.

END OF ADDENDUM NO.2





**Date: Apr 10, 2013**

CAL+D  
880 S. Pleasantburg Dr  
Greenville SC 29607  
Phone: (864) 335-5065  
Fax: (864) 335-5066

Job Name  
**- Career Center @ Thomas Cooper Library**  
Columbia

Bid Date  
May 2, 2013

Submittal Date  
Apr 10, 2013

*Architect:*  
Quackenbush Architects and Planners  
1217 Hampton Street  
Columbia SC 29201

Date: Apr 10, 2013

Page 1/1



**Carolina  
Architectural  
Lighting and  
Design**

www.cal-d-lighting.com

# Transmittal

CAL+D  
880 S. Pleasantburg Dr  
Greenville SC 29607  
Phone: (864) 335-5065  
**From: Susan Hunter**

**Project** - Career Center @ Thomas Cooper Library  
**Location** Columbia  
Contact:

ATTACHED WE ARE SENDING YOU 0 COPIES OF THE FOLLOWING ITEMS:

- |                                   |   |        |
|-----------------------------------|---|--------|
| <input type="checkbox"/> Drawings | <input type="checkbox"/> Specifications | Other: |
| <input type="checkbox"/> Prints   | <input type="checkbox"/> Information    |        |
| <input type="checkbox"/> Plans    | <input type="checkbox"/> Submittals     |        |

THESE ARE TRANSMITTED FOR:

- |  |   |                                 |
|--|---|---------------------------------|
| <input type="checkbox"/> Prior Approval        | <input type="checkbox"/> Resubmittal for Approval | <input type="checkbox"/> Record |
| <input type="checkbox"/> Approval              | <input type="checkbox"/> Corrections              | Bids due on:                    |
| <input type="checkbox"/> Approval as Submitted | <input type="checkbox"/> Your Use                 | Other:                          |
| <input type="checkbox"/> Approval as Noted     | <input type="checkbox"/> Review and Comment       |                                 |

| Qty | Type    | MFG        | Part             |
|-----|---------|------------|------------------|
| 0   | TYPE R3 | Prescolite | LF6CFH226EB-6CFH |
| 0   | TYPE R5 | Prescolite | LF6CFH218EB-6CFH |



**Carolina  
Architectural  
Lighting and  
Design**

www.caald-lighting.com  
Apr 10, 2013

**RE:** - Career Center @ Thomas Cooper Library  
Columbia

| <b>Qty</b> | <b>Type</b> | <b>MFG</b> | <b>Part</b>      |
|------------|-------------|------------|------------------|
| 0          | TYPE R3     | Prescolite | LF6CFH226EB-6CFH |
| 0          | TYPE R5     | Prescolite | LF6CFH218EB-6CFH |



**Carolina Architectural Lighting and Design**  
www.calcdg.com

**Job Name:**

- Career Center @ Thomas Cooper Library  
Architect: Quackenbush Architects and Planners (Columbia)

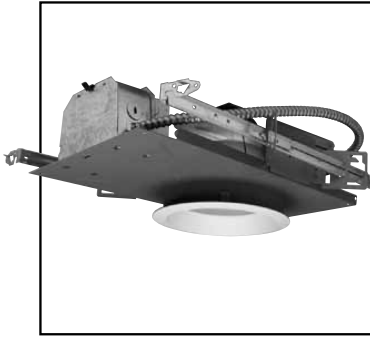
**Catalog Number:**  
LF6CFH226EB-6CFH

Notes:

**Type:**

**TYPE R3**

CALD13-23532



**6" Horizontal Compact Fluorescent Lensed Downlights**

**LF6CFH**

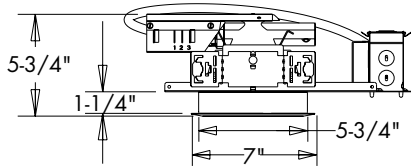
Two 13W Twin Tube or 13W, 18W or 26W Quad Tube 4-pin Lamps  
120V, 208V, 240V, 277V, or 347V



DATE: \_\_\_\_\_ TYPE: \_\_\_\_\_  
FIRM NAME: \_\_\_\_\_  
PROJECT: \_\_\_\_\_

**LiteFrame®**

**wiHUBB** Maximum Ceiling Thickness: 1-1/4"  
For conversion to millimeters, multiply inches by 25.4  
Not to Scale



**APPLICATIONS:**

The LF6CFH series offers horizontally lamped compact fluorescent lensed downlight fixtures. This luminaire is ideal for a wide variety of low to medium height ceiling applications including commercial, retail, hospitality, and design-build.

**HOUSING:**

One-piece 22-gauge galvanized steel platform. Prewired J-box with snap-on cover for easy access. Vented at lamp tip and socket for maximum light output. Same housing accommodates downlight, lensed downlight, and wall wash downlight reflectors.

**REFLECTOR:**

High purity aluminum, Alzak, iridescence suppressed, semi-diffuse reflector. Self-trim standard. White painted splay standard.

**LAMPS:**

Use two (2) 13W twin tube (2GX7 base, Osram lamps only), 13W (G24Q-1 base), 18W (G24Q-2 base), or 26W (G24Q-3 base) quad tube 4-pin compact fluorescent lamps. Lamps furnished by others or as option below.

**BALLAST:**

One (1) Class 'P' 120V-277V HPF compact fluorescent electronic ballast for long life and quiet operation. All ballast options are equipped with end of life protection. Contact technical support for 347V. Accessible from below ceiling.

**SOCKET:**

Two (2) injection molded sockets (vented).

**INSTALLATION:**

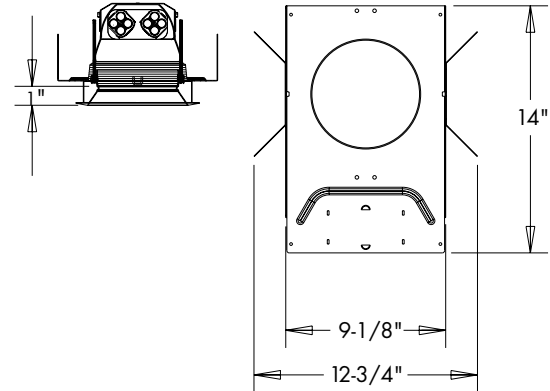
Universal adjustable mounting brackets accept 1/2" EMT conduit or 1 1/2" or 3/4" lathing channel (by others) or Prescolite 24" bar hangers (B24 or B6). Light commercial bar hangers included.

**LABELS:**

UL listed or UL/CSA listed with CDN option suitable for damp locations and wet locations when used with lensed trims. Approved for through wiring (4 in, 4 out). Non-IC type.

**LAMP INCLUDED OPTION:**

Specify lamp type TW4 (Twin 4-pin) or Q4 (Quad 4-pin) and temperature as shown below.



Order housing, reflector and accessories separately.

CATALOG NUMBER:

EXAMPLE: LF6CFH226EB 6CFHCGFL IP26Q430K

| HOUSING                                | WATTAGE   | BALLAST   | VOLTAGE  | HOUSING OPTIONS  | REFLECTOR  | SPRAY COLOR   | LENS   | TRIM OPTIONS   | ACCESSORIES   |
|--|---|---|--|--|--|---|--|--|---|
| <input type="checkbox"/> <b>LF6CFH</b> | <input type="checkbox"/> <b>213TW</b><br>(2) 13W Twin Tubes<br>Osram Lamps<br><input type="checkbox"/> <b>213</b><br>(2) 13W Quad<br><input type="checkbox"/> <b>218</b><br>(2) 18W Quad<br><input type="checkbox"/> <b>226</b><br>(2) 26W Quad | <input type="checkbox"/> <b>EB</b> Multi-volt<br><input type="checkbox"/> <b>CDN</b> Canadian electrical code compliant ballast disconnect<br><input type="checkbox"/> <b>CDN 347V</b> <sup>1,6</sup> Canadian electrical code compliant ballast disconnect | <input type="checkbox"/> <b>Blank 120V-277V</b><br><input type="checkbox"/> <b>CDN</b> | <input type="checkbox"/> <b>CP</b> <sup>3</sup> Chicago Plenum<br><input type="checkbox"/> <b>FSDFA</b> Fuse kit installed at factory<br><input type="checkbox"/> <b>RIF</b> <sup>2,3</sup> Radio interference filter (single circuit)<br><input type="checkbox"/> <b>EMR</b> <sup>2,3,4</sup> Emergency battery pack with remote test switch and indicator light<br><input type="checkbox"/> <b>DM</b> <sup>1</sup> Electronic Analog Dimming Ballast to 3%, 4-wire, 0-10V (120-277V)<br><input type="checkbox"/> <b>SYL</b> <sup>5</sup> Osram Sylvania Ballast (available for standard EB option)<br><input type="checkbox"/> <b>ECDM</b> <sup>1</sup> Lutron EcoSystem or 3-wire line voltage dimming ballast (120V-277V). Dims to 5%.<br><input type="checkbox"/> <b>7DM</b> <sup>1</sup> Advance Mark 7™ Dimming Ballast to 5%, 4-wire, 0-10V, analog (120V thru 277V)(specify wattage)<br><input type="checkbox"/> <b>XDM</b> <sup>1,7</sup> Advance Mark 10™ Dimming Ballast to 5%, 2-wire line voltage (specify supply voltage/wattage)<br><input type="checkbox"/> <b>SMT</b> Philips Advance SmartMate® ballast<br><input type="checkbox"/> <b>WIH</b> wiHUBB® Enabled (see page 3) | <input type="checkbox"/> <b>6CFH</b> 6" Alzak Semi-Diffuse | <input type="checkbox"/> <b>Blank</b> Painted White<br><input type="checkbox"/> <b>CR</b> Clear Alzak<br><input type="checkbox"/> <b>CG</b> Champagne Gold Alzak<br><input type="checkbox"/> <b>PW</b> Pewter Alzak<br><input type="checkbox"/> <b>WE</b> Wheat Alzak<br><input type="checkbox"/> <b>LW</b> Light Wheat Alzak | <input type="checkbox"/> <b>FL</b> Regressed Fresnel<br><input type="checkbox"/> <b>PL</b> Regressed Prismatic<br><input type="checkbox"/> <b>DL</b> Regressed Diffuse<br><input type="checkbox"/> <b>CL</b> Regressed Clear | <input type="checkbox"/> <b>WT</b> White flange (Alzak only)<br><input type="checkbox"/> <b>TRG</b> Trim Ring Gasket (Factory installed) | <input type="checkbox"/> <b>B24</b> Set of (2) 24" bar hangers for T-bar ceilings<br><input type="checkbox"/> <b>B6</b> Set of (2) bar hangers for ceiling joists up to 24" centers<br><input type="checkbox"/> <b>FSDFI</b> Fuse kit for field installation<br><input type="checkbox"/> <b>SCA6D</b> Sloped ceiling adapter (see note on back page)<br><b>LAMP ACCESSORIES</b><br><input type="checkbox"/> <b>LP</b> -wattage=13, 18, 26<br>-type= TW4 (Twin 4-pin); Q4 (Quad 4-pin)<br>-temp= 27K, 30K, 35K, 41K (Kelvin)<br>*Example: LP26Q430K<br>Requires two lamps. |

<sup>1</sup>Not Available for 13W Twin Tube Lamps or 347V  
<sup>2</sup>RIF1 and EMR options not offered in combination  
<sup>3</sup>CP not offered in combination with RIF1 or EMR  
<sup>4</sup>UL, CUL listed for damp locations  
<sup>5</sup>Available for Osram Sylvania Quick 60+® Limited Warranty when used with Osram lamp(s). See www.prescolite.com for details.  
<sup>6</sup>Dimming option not available for 347V  
<sup>7</sup>Not available for 13W Quad lamps



In a continuing effort to offer the best product possible we reserve the right to change, without notice, specifications or materials that in our opinion will not alter the function of the product.  
Web: [www.prescolite.com](http://www.prescolite.com) • Tech Support: (888) 777-4832

**LFR-CFL-011**

# PHOTOMETRIC DATA

## LiteFrame® - 6" Horizontal Twin Tube Lensed Downlights - LF6CFH Series

### BALLAST DATA CFLH

|                           | 13W Twin |       |      | 13W Quad |       |       | 18W Quad |       |       | 26W Quad |       |       |
|---------------------------|----------|-------|------|----------|-------|-------|----------|-------|-------|----------|-------|-------|
|                           | 120V     | 277V  | 347V | 120V     | 277V  | 347V  | 120V     | 277V  | 347V  | 120V     | 277V  | 347V  |
| Total System Watts        | 26       | 26    | N/A  | 29       | 29    | 33    | 35       | 35    | 38    | 51       | 51    | 57    |
| Input Current (Amps)      | 0.22     | 0.10  | N/A  | 0.25     | 0.11  | 0.10  | 0.30     | 0.13  | 0.06  | 0.43     | 0.19  | 0.17  |
| Input Frequency in Hz     | 50/60    | 50/60 | N/A  | 50/60    | 50/60 | 50/60 | 50/60    | 50/60 | 50/60 | 50/60    | 50/60 | 50/60 |
| Power Factor <.95         | <.95     | N/A   | <.99 | <.99     | <.95  | <.99  | <.99     | <.95  | <.99  | <.99     | <.99  | <.95  |
| Ballast Factor <.98       | <.98     | N/A   | <1.0 | <1.0     | <.98  | <.95  | <.95     | <.98  | <1.0  | <1.0     | <1.0  | <.98  |
| Total Harmonic Distortion | <10%     | <10%  | N/A  | <10%     | <10%  | <10%  | <10%     | <10%  | <10%  | <10%     | <10%  | <10%  |

### LAMP DATA CFLH

|                     | 13W Twin | 13W Quad | 18W Quad | 26W Quad |
|---------------------|----------|----------|----------|----------|
| Rated Watts         | 820      | 900      | 1150     | 1710     |
| Rated Lumens        | 820      | 900      | 1150     | 1710     |
| Efficacy (LPW)      | 63       | 69       | 64       | 66       |
| Rated Life          | 10,000   | 12,000   | 12,000   | 12,000   |
| CRI                 | 82       | 82       | 82       | 82       |
| Min. Starting Temp. | 0°F      | 32°F     | 32°F     | 32°F     |

### LUMINANCE DATA IN CANDELA/SQ. METER

| Angle in Vertical | Average 0° | Average 45° | Average 90° |
|-------------------|------------|-------------|-------------|
| 45°               | 13586      | 15189       | 15105       |
| 55°               | 4161       | 4265        | 4473        |
| 65°               | 4094       | 4518        | 4094        |
| 75°               | 3228       | 3228        | 3228        |
| 85°               | 1369       | 685         | 1369        |

### LF6CFH226EB/6CFHCL Clear Alzak Reflector and Clear Lens

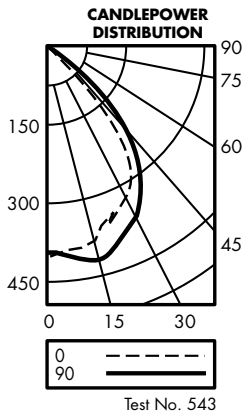
Lamp: 2-CF26DD/E/827/4P-SYLVANIA

Spacing Criteria:  
0°=1.2  
90°=1.3  
Efficiency: 20.6%

### AVERAGE INITIAL FOOTCANDLES

Multiple Units (Square Array)  
Ceiling 80% Wall 50% Floor 20%

- Assumptions:
- Multiple Units (Square Array)
  - Ceiling 80% Wall 50% Floor 20%
  - 4 Fixtures evenly spaced in the center of the room.
  - The room is square and has a width and length equal to twice the lamp spacing.
  - The lumen depreciation factor is 0.8.
  - The dirt depreciation factor is 0.98.



### CANDLEPOWER SUMMARY

| Angle | 0°  | 90° | 180° |
|-------|-----|-----|------|
| 0     | 410 | 410 | 410  |
| 5     | 412 | 413 | 406  |
| 10    | 410 | 433 | 407  |
| 15    | 397 | 434 | 398  |
| 20    | 365 | 419 | 366  |
| 25    | 346 | 400 | 345  |
| 30    | 323 | 371 | 325  |
| 35    | 297 | 338 | 298  |
| 40    | 241 | 275 | 253  |
| 45    | 161 | 180 | 179  |
| 50    | 89  | 90  | 99   |
| 55    | 40  | 41  | 43   |
| 60    | 33  | 34  | 34   |
| 65    | 29  | 32  | 29   |
| 70    | 23  | 26  | 23   |
| 75    | 14  | 14  | 14   |
| 80    | 5   | 62  | 6    |
| 85    | 2   | 1   | 2    |
| 90    | 0   | 0   | 0    |

### (2) 26W Quads

| SPACING | RCR1 | RCR3 | RCR7 |
|---------|------|------|------|
| 7.0     | 7    | 5    | 4    |
| 8.0     | 6    | 4    | 3    |
| 9.0     | 4    | 3    | 2    |
| 10.0    | 4    | 3    | 2    |
| 11.0    | 3    | 2    | 2    |
| 12.0    | 2    | 2    | 1    |
| 13.0    | 2    | 2    | 1    |
| 14.0    | 2    | 1    | 1    |
| 15.0    | 2    | 1    | 1    |

### COEFFICIENTS OF UTILIZATION Zonal Cavity Method

| Room Cavity Ratio | % Effective Ceiling Cavity Reflectance |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-------------------|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|                   | 80%                                    |     |     | 70% |     |     | 50% |     |     | 30% |     |     | 10% |     |     |
|                   | 20% Effective Floor Cavity Reflectance |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|                   | % Wall Reflectance                     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|                   | 70                                     | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  |     |
| 1                 | .23                                    | .22 | .22 | .21 | .23 | .22 | .21 | .21 | .21 | .21 | .20 | .20 | .20 | .19 | .19 |
| 2                 | .22                                    | .20 | .19 | .18 | .21 | .20 | .19 | .18 | .19 | .18 | .18 | .19 | .18 | .17 | .17 |
| 3                 | .20                                    | .18 | .17 | .16 | .20 | .18 | .17 | .16 | .17 | .16 | .16 | .17 | .16 | .15 | .15 |
| 4                 | .19                                    | .17 | .15 | .14 | .18 | .16 | .15 | .14 | .16 | .15 | .14 | .16 | .15 | .14 | .14 |
| 5                 | .17                                    | .15 | .14 | .13 | .17 | .15 | .14 | .13 | .14 | .13 | .12 | .14 | .13 | .12 | .12 |
| 6                 | .16                                    | .14 | .12 | .11 | .16 | .14 | .12 | .11 | .13 | .12 | .11 | .13 | .12 | .11 | .11 |
| 7                 | .15                                    | .13 | .11 | .10 | .15 | .13 | .11 | .10 | .12 | .11 | .10 | .12 | .11 | .10 | .10 |
| 8                 | .14                                    | .12 | .10 | .09 | .14 | .12 | .10 | .09 | .12 | .10 | .09 | .11 | .10 | .09 | .09 |
| 9                 | .13                                    | .11 | .10 | .09 | .13 | .11 | .10 | .09 | .11 | .09 | .09 | .11 | .09 | .08 | .08 |
| 10                | .13                                    | .10 | .09 | .08 | .12 | .10 | .09 | .08 | .10 | .09 | .08 | .10 | .09 | .08 | .08 |

### LF6CFH226EB/6CFHCL

Test No. 543

### NOTES

Refer to [www.prescolite.com](http://www.prescolite.com) for additional photometric tests (IES Files).  
When ordering a sloped ceiling adapter, specify the degree of slope in 5° increments, max. of 35°. For a more precise degree or wet ceiling applications, please contact factory. Sloped ceiling adapter and housing must be installed at the same time prior to finish ceiling installation.

**Note:** Use of horizontally-lamped open downlights with amalgam-based CFL lamps in air-handling plenums is not recommended because cool air flow over the lamps will result in reduced light output. Prescolite recommends vertical lamp downlights or use of the regressed lensed trim option for horizontal downlights in these applications to reduce this effect. Refer to Prescolite White Paper WP0003 at [www.prescolite.com](http://www.prescolite.com) for more information.





**Carolina Architectural Lighting and Design**  
www.calcdg.com

**Job Name:**

- Career Center @ Thomas Cooper Library  
Architect: Quackenbush Architects and Planners (Columbia)

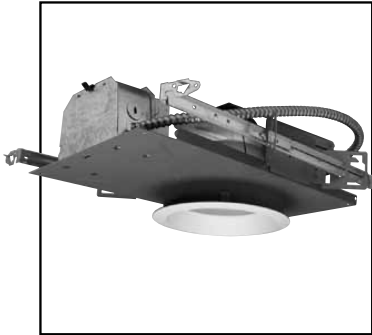
**Catalog Number:**  
LF6CFH218EB-6CFH

Notes:

**Type:**

**TYPE R5**

CALD13-23532



**6" Horizontal Compact Fluorescent Lensed Downlights**

**LF6CFH**

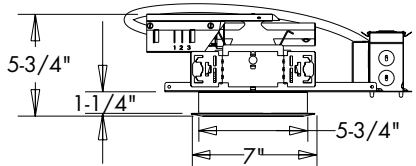
Two 13W Twin Tube or 13W, 18W or 26W Quad Tube 4-pin Lamps  
120V, 208V, 240V, 277V, or 347V



DATE: \_\_\_\_\_ TYPE: \_\_\_\_\_  
FIRM NAME: \_\_\_\_\_  
PROJECT: \_\_\_\_\_



**wiHUBB** Maximum Ceiling Thickness: 1-1/4"  
Ceiling Cutout: 6-1/4"  
For conversion to millimeters, multiply inches by 25.4  
Not to Scale



**APPLICATIONS:**

The LF6CFH series offers horizontally lamped compact fluorescent lensed downlight fixtures. This luminaire is ideal for a wide variety of low to medium height ceiling applications including commercial, retail, hospitality, and design-build.

**HOUSING:**

One-piece 22-gauge galvanized steel platform. Prewired J-box with snap-on cover for easy access. Vented at lamp tip and socket for maximum light output. Same housing accommodates downlight, lensed downlight, and wall wash downlight reflectors.

**REFLECTOR:**

High purity aluminum, Alzak, iridescence suppressed, semi-diffuse reflector. Self-trim standard. White painted splay standard.

**LAMPS:**

Use two (2) 13W twin tube (2GX7 base, Osram lamps only), 13W (G24Q-1 base), 18W (G24Q-2 base), or 26W (G24Q-3 base) quad tube 4-pin compact fluorescent lamps. Lamps furnished by others or as option below.

**BALLAST:**

One (1) Class 'P' 120V-277V HPF compact fluorescent electronic ballast for long life and quiet operation. All ballast options are equipped with end of life protection. Contact technical support for 347V. Accessible from below ceiling.

**SOCKET:**

Two (2) injection molded sockets (vented).

**INSTALLATION:**

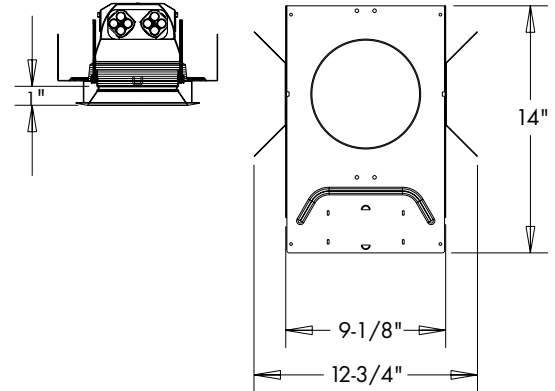
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UL listed or UL/CSA listed with CDN option suitable for damp locations and wet locations when used with lensed trims. Approved for through wiring (4 in, 4 out). Non-IC type.

**LAMP INCLUDED OPTION:**

Specify lamp type TW4 (Twin 4-pin) or Q4 (Quad 4-pin) and temperature as shown below.



Order housing, reflector and accessories separately.

CATALOG NUMBER:

EXAMPLE: LF6CFH226EB 6CFHCGFL IP26Q430K

| HOUSING                                | WATTAGE  | BALLAST   | VOLTAGE  | HOUSING OPTIONS   | REFLECTOR  | SPRAY COLOR   | LENS   | TRIM OPTIONS   | ACCESSORIES  |
|--|--|---|--|---|--|---|--|--|--|
| <input type="checkbox"/> <b>LF6CFH</b> | <input type="checkbox"/> <b>213TW</b><br>(2) 13W Twin Tubes Osram Lamps<br><input type="checkbox"/> <b>213</b><br>(2) 13W Quad<br><input type="checkbox"/> <b>218</b><br>(2) 18W Quad<br><input type="checkbox"/> <b>226</b><br>(2) 26W Quad | <input type="checkbox"/> <b>EB</b> Multi-volt<br><input type="checkbox"/> <b>CDN</b> Canadian electrical code compliant ballast disconnect<br><input type="checkbox"/> <b>CDN 347V</b> <sup>1,6</sup> Canadian electrical code compliant ballast disconnect | <input type="checkbox"/> <b>Blank 120V-277V</b><br><input type="checkbox"/> <b>CDN</b> | <input type="checkbox"/> <b>CP</b> <sup>3</sup> Chicago Plenum<br><input type="checkbox"/> <b>FSDFA</b> Fuse kit installed at factory<br><input type="checkbox"/> <b>RIF1</b> <sup>2,3</sup> Radio interference filter (single circuit)<br><input type="checkbox"/> <b>EMR</b> <sup>2,3,4</sup> Emergency battery pack with remote test switch and indicator light<br><input type="checkbox"/> <b>DM</b> <sup>1</sup> Electronic Analog Dimming Ballast to 3%, 4-wire, 0-10V (120-277V)<br><input type="checkbox"/> <b>SYL</b> <sup>5</sup> Osram Sylvania Ballast (available for standard EB option)<br><input type="checkbox"/> <b>ECDM</b> <sup>1</sup> Lutron EcoSystem or 3-wire line voltage dimming ballast (120V-277V). Dims to 5%.<br><input type="checkbox"/> <b>7DM</b> <sup>1</sup> Advance Mark 7™ Dimming Ballast to 5%, 4-wire, 0-10V, analog (120V thru 277V)(specify wattage)<br><input type="checkbox"/> <b>XDM</b> <sup>1,7</sup> Advance Mark 10™ Dimming Ballast to 5%, 2-wire line voltage (specify supply voltage/wattage)<br><input type="checkbox"/> <b>SMT</b> Philips Advance SmartMate® ballast<br><input type="checkbox"/> <b>WIH</b> wiHUBB® Enabled (see page 3) | <input type="checkbox"/> <b>6CFH</b> 6" Alzak Semi-Diffuse | <input type="checkbox"/> <b>Blank</b> Painted White<br><input type="checkbox"/> <b>CR</b> Clear Alzak<br><input type="checkbox"/> <b>CG</b> Champagne Gold Alzak<br><input type="checkbox"/> <b>PW</b> Pewter Alzak<br><input type="checkbox"/> <b>WE</b> Wheat Alzak<br><input type="checkbox"/> <b>LW</b> Light Wheat Alzak | <input type="checkbox"/> <b>FL</b> Regressed Fresnel<br><input type="checkbox"/> <b>PL</b> Regressed Prismatic<br><input type="checkbox"/> <b>DL</b> Regressed Diffuse<br><input type="checkbox"/> <b>CL</b> Regressed Clear | <input type="checkbox"/> <b>WT</b> White flange (Alzak only)<br><input type="checkbox"/> <b>TRG</b> Trim Ring Gasket (Factory installed) | <input type="checkbox"/> <b>B24</b> Set of (2) 24" bar hangers for T-bar ceilings<br><input type="checkbox"/> <b>B6</b> Set of (2) bar hangers for ceiling joists up to 24" centers<br><input type="checkbox"/> <b>FSDFI</b> Fuse kit for field installation<br><input type="checkbox"/> <b>SCA6D</b> Sloped ceiling adapter (see note on back page) |
|  |  |   |  |   |  |   |  |  | <b>LAMP ACCESSORIES</b>  |
|  |  |   |  |   |  |   |  |  | <input type="checkbox"/> <b>LP</b><br>-wattage=13, 18, 26<br>-type= TW4 (Twin 4-pin); Q4 (Quad 4-pin)<br>-temp= 27K, 30K, 35K, 41K (Kelvin)<br>*Example: LP26Q430K<br>Requires two lamps.  |

<sup>1</sup>Not Available for 13W Twin Tube Lamps or 347V  
<sup>2</sup>RIF1 and EMR options not offered in combination  
<sup>3</sup>CP not offered in combination with RIF1 or EMR  
<sup>4</sup>UL, CUL listed for damp locations  
<sup>5</sup>Available for Osram Sylvania Quick 60+® Limited Warranty when used with Osram lamp(s). See www.prescolite.com for details.  
<sup>6</sup>Dimming option not available for 347V  
<sup>7</sup>Not available for 13W Quad lamps



In a continuing effort to offer the best product possible we reserve the right to change, without notice, specifications or materials that in our opinion will not alter the function of the product.  
Web: [www.prescolite.com](http://www.prescolite.com) • Tech Support: (888) 777-4832

**LFR-CFL-011**



# PHOTOMETRIC DATA

## LiteFrame® - 6" Horizontal Twin Tube Lensed Downlights - LF6CFH Series

### BALLAST DATA CFLH

|                           | 13W Twin |       |      | 13W Quad |       |       | 18W Quad |       |       | 26W Quad |       |       |
|---------------------------|----------|-------|------|----------|-------|-------|----------|-------|-------|----------|-------|-------|
|                           | 120V     | 277V  | 347V | 120V     | 277V  | 347V  | 120V     | 277V  | 347V  | 120V     | 277V  | 347V  |
| Total System Watts        | 26       | 26    | N/A  | 29       | 29    | 33    | 35       | 35    | 38    | 51       | 51    | 57    |
| Input Current (Amps)      | 0.22     | 0.10  | N/A  | 0.25     | 0.11  | 0.10  | 0.30     | 0.13  | 0.06  | 0.43     | 0.19  | 0.17  |
| Input Frequency in Hz     | 50/60    | 50/60 | N/A  | 50/60    | 50/60 | 50/60 | 50/60    | 50/60 | 50/60 | 50/60    | 50/60 | 50/60 |
| Power Factor <.95         | <.95     | N/A   | <.99 | <.99     | <.95  | <.99  | <.99     | <.95  | <.99  | <.99     | <.99  | <.95  |
| Ballast Factor <.98       | <.98     | N/A   | <1.0 | <1.0     | <.98  | <.95  | <.95     | <.98  | <1.0  | <1.0     | <1.0  | <.98  |
| Total Harmonic Distortion | <10%     | <10%  | N/A  | <10%     | <10%  | <10%  | <10%     | <10%  | <10%  | <10%     | <10%  | <10%  |

### LAMP DATA CFLH

|                     | 13W Twin | 13W Quad | 18W Quad | 26W Quad |
|---------------------|----------|----------|----------|----------|
| Rated Watts         | 820      | 900      | 1150     | 1710     |
| Rated Lumens        | 820      | 900      | 1150     | 1710     |
| Efficacy (LPW)      | 63       | 69       | 64       | 66       |
| Rated Life          | 10,000   | 12,000   | 12,000   | 12,000   |
| CRI                 | 82       | 82       | 82       | 82       |
| Min. Starting Temp. | 0°F      | 32°F     | 32°F     | 32°F     |

### LUMINANCE DATA IN CANDELA/SQ. METER

| Angle in Vertical | Average 0° | Average 45° | Average 90° |
|-------------------|------------|-------------|-------------|
| 45°               | 13586      | 15189       | 15105       |
| 55°               | 4161       | 4265        | 4473        |
| 65°               | 4094       | 4518        | 4094        |
| 75°               | 3228       | 3228        | 3228        |
| 85°               | 1369       | 685         | 1369        |

### LF6CFH226EB/6CFHCL Clear Alzak Reflector and Clear Lens

Lamp: 2-CF26DD/E/827/4P-SYLVANIA

Spacing Criteria:

0°=1.2

90°=1.3

Efficiency: 20.6%

### AVERAGE INITIAL FOOTCANDLES

Multiple Units (Square Array)

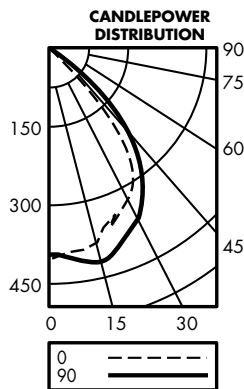
Ceiling 80% Wall 50% Floor 20%

Assumptions:

- Multiple Units (Square Array)
- Ceiling 80% Wall 50% Floor 20%
- 4 Fixtures evenly spaced in the center of the room.
- The room is square and has a width and length equal to twice the lamp spacing.
- The lumen depreciation factor is 0.8.
- The dirt depreciation factor is 0.98.

(2) 26W Quads

| SPACING | RCR1 | RCR3 | RCR7 |
|---------|------|------|------|
| 7.0     | 7    | 5    | 4    |
| 8.0     | 6    | 4    | 3    |
| 9.0     | 4    | 3    | 2    |
| 10.0    | 4    | 3    | 2    |
| 11.0    | 3    | 2    | 2    |
| 12.0    | 2    | 2    | 1    |
| 13.0    | 2    | 2    | 1    |
| 14.0    | 2    | 1    | 1    |
| 15.0    | 2    | 1    | 1    |



### CANDLEPOWER SUMMARY

| Angle | 0°  | 90° | 180° |
|-------|-----|-----|------|
| 0     | 410 | 410 | 410  |
| 5     | 412 | 413 | 406  |
| 10    | 410 | 433 | 407  |
| 15    | 397 | 434 | 398  |
| 20    | 365 | 419 | 366  |
| 25    | 346 | 400 | 345  |
| 30    | 323 | 371 | 325  |
| 35    | 297 | 338 | 298  |
| 40    | 241 | 275 | 253  |
| 45    | 161 | 180 | 179  |
| 50    | 89  | 90  | 99   |
| 55    | 40  | 41  | 43   |
| 60    | 33  | 34  | 34   |
| 65    | 29  | 32  | 29   |
| 70    | 23  | 26  | 23   |
| 75    | 14  | 14  | 14   |
| 80    | 5   | 62  | 6    |
| 85    | 2   | 1   | 2    |
| 90    | 0   | 0   | 0    |

### COEFFICIENTS OF UTILIZATION Zonal Cavity Method

| Room Cavity Ratio | % Effective Ceiling Cavity Reflectance |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
|-------------------|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
|                   | 80%                                    |     |     | 70% |     |     | 50% |     |     | 30% |     |     | 10% |     |  |
|                   | 20% Effective Floor Cavity Reflectance |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
|                   | % Wall Reflectance                     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
|                   | 70                                     | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  |  |
| 1                 | .23                                    | .22 | .22 | .21 | .23 | .22 | .21 | .21 | .21 | .21 | .20 | .20 | .20 | .19 |  |
| 2                 | .22                                    | .20 | .19 | .18 | .21 | .20 | .19 | .18 | .19 | .18 | .18 | .19 | .18 | .17 |  |
| 3                 | .20                                    | .18 | .17 | .16 | .20 | .18 | .17 | .16 | .17 | .16 | .16 | .17 | .16 | .15 |  |
| 4                 | .19                                    | .17 | .15 | .14 | .18 | .16 | .15 | .14 | .16 | .15 | .14 | .16 | .15 | .14 |  |
| 5                 | .17                                    | .15 | .14 | .13 | .17 | .15 | .14 | .13 | .14 | .13 | .12 | .14 | .13 | .12 |  |
| 6                 | .16                                    | .14 | .12 | .11 | .16 | .14 | .12 | .11 | .13 | .12 | .11 | .13 | .12 | .11 |  |
| 7                 | .15                                    | .13 | .11 | .10 | .15 | .13 | .11 | .10 | .12 | .11 | .10 | .12 | .11 | .10 |  |
| 8                 | .14                                    | .12 | .10 | .09 | .14 | .12 | .10 | .09 | .12 | .10 | .09 | .11 | .10 | .09 |  |
| 9                 | .13                                    | .11 | .10 | .09 | .13 | .11 | .10 | .09 | .11 | .09 | .08 | .11 | .09 | .08 |  |
| 10                | .13                                    | .10 | .09 | .08 | .12 | .10 | .09 | .08 | .10 | .09 | .08 | .10 | .09 | .08 |  |

LF6CFH226EB/6CFHCL

Test No. 543

### NOTES

Refer to www.prescolite.com for additional photometric tests (IES Files).

When ordering a sloped ceiling adapter, specify the degree of slope in 5° increments, max. of 35°. For a more precise degree or wet ceiling applications, please contact factory. Sloped ceiling adapter and housing must be installed at the same time prior to finish ceiling installation.

**Note:** Use of horizontally-lamped open downlights with amalgam-based CFL lamps in air-handling plenums is not recommended because cool air flow over the lamps will result in reduced light output. Prescolite recommends vertical lamp downlights or use of the regressed lensed trim option for horizontal downlights in these applications to reduce this effect. Refer to Prescolite White Paper WP0003 at www.prescolite.com for more information.





# University of South Carolina Pre Bid Sign In Sheet

Columbia, South Carolina

Project Name & Number: Career Center at Thomas Cooper Library/H27-1998-A  
 Pre Bid Date & Time: April 18, 2013 @ 10am

| Name           | Company                        | Address   | Phone #                 | Email                                     |
|----------------|--------------------------------|---|-------------------------|---|
| Boyd Brown     | BUCHANAN CONSTRUCTION SERVICES | 2800 WM TULLER DR<br>COLUMBIA, SC 29205<br>PO Box 6782, Colg, 29260 | 803-695-2123            | bids@buchananconstruction<br>services.com |
| Joan Frank     | Burkwood Construction Inc      | 1240 Bluff Road<br>Columbia, SC<br>29201                            | 803-717-5898            | JFrank@brkwd.com                          |
| Wade Bozeman   | Pyramid Contracting            | 1108A Lykes Ln.<br>F RMO  | 803-232-2050            | Wade@Pyramid<br>contracting.net           |
| JASON PROUSE   | Hammer Construction            | 785 Hampton Creek<br>Way. Columbia<br>29209                         | 803-765-7033            | jason@hammerconstruction.com              |
| Jim McFarland  | Solid Structures               | PO Box 3078<br>W. Colg, S.C. 29169                                  | (803) 926-0298          | jim@solidstructures.net                   |
| MIKE SWEATT    | AOS                            | 575 Two Notch Rd<br>LEX., SC 29073                                  | 803-798-6931            | MIKE@AOSSC.ORG                            |
| Charlie White  | EBI                            | 2204 Dangle Shed<br>Flores, SC 29531                                | 843-250-9956            | charlie.white@ebiconstruction.com         |
| Thomas Scroggs | Hogan Construction Group       | P.O. Box 6975<br>Columbia, SC 29260                                 | 803-730-3314            | tscroggs@hoganconstruction<br>group.com   |
| MIKE ROBERTSON | MAR Construction               | 141 RIVERCHASE WAY<br>LEXINGTON, S.C. 29012                         | 803 796-8960<br>EXT 305 | MIKE@MAR<br>CONSTRUCTION.COM              |

\* Please make sure you list your company name as registered with LLR.

\* By signing and providing your email address, you are authorizing the University of South Carolina to send you information electronically.



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|-----------------|--------------------------|--------------------------------------|--------------|-----------------------------------|
| Greg Tyler      | Tyler Construction Group | P.O. Box 29031<br>Columbia, SC 29204 | 803-865-1404 | g.tyler@tyler-construction.com    |
| John Porek      | BUNCKENBUSH APRENTICES   |                                      |              | JOENEVU@BUNCKENBUSHARCHITECTS.COM |
| Tim Harmon      | USC Library/Facility     | 1322 Greene St<br>Columbia, SC 29208 | 803 683-8894 | HarmonT@Fmc.sc.edu                |
| Juaguana Brooks | USC                      |                                      | 803.777.3596 |                                   |
| Chad Jones      | USC                      |                                      | 803.777.4569 |                                   |
|                 |                          |                                      |              |                                   |
|                 |                          |                                      |              |                                   |
|                 |                          |                                      |              |                                   |
|                 |                          |                                      |              |                                   |

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