

Lightruss systems illuminate over 700 facilities across North America. In addition to being a unique, performance level lighting system, Lightruss' standard features help save roughly 25 to 30 percent in installation time and money, when compared to independently hung fixtures. Let our team of experts create the ultimate lighting system for your application.





Interior



Ozaukee Ice Center, WI

Product	Size	Forward Throw	Asymmetric	Symmetric	Wide Symmetric	Truss	Fluorescent Wattage Range	Metal Halide Wattage Range	Tungsten Halogen Wattage Range
Habbana	1	•	•	•		•	2F39 - 4F54	1M70 - 1M400	17150 - 27250
Lightruss	2	•	•		•	•	3F28 - 6F54	1M175 - 1M1000	21250 - 41250

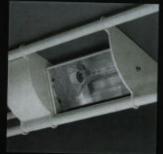
FEATURES AND OPTIONS



Acrylic Prismatic Diffuser Lens



Downlight Louver



Wall Washer



Wire Raceway Detail

Features

- Alternative Bulkhead Forms
- · Creative Finish Options
- . Durable Powder Coat Finish
- Convenient Installation
 Saves Time and Money
- · Eliminates Water Glare
- . Fewer Power Drops
- Hi-Pot and Continuity
 Tested at Factory
- · Pre-Assembled
- Pre-Wired
- Supports Mounted Audio Equipment and Accessorie

Flexible Ballast Options

- · Integral
- · Electronic and Magnetic

Premium Reflectors

• 95% Reflective Aluminum

UL Listing

- UL Listed (US & Canada for Damp Locations (Not recommended for exterior use)
- UL Listed (US & Canada)
 as a Raceway and Wireway

Standard Options

- Acrylic Prismatic Diffuser Lens
- Dimming (Fluorescent only)
- · Downlight Louver
- Encapsulated Core and Coil Power Tray
- * Fusing
- Integral Emergency
- Quartz Emergency Light Circuit
- · Standby Quartz Lightins

Customization

- · Bulkhead Forms
- Alternative Mounting
- · System Layout
- · Ballast Specification
- · And More

Contact us at 262-242-1420 or visit www.specspi.com for more information.

INTERIOR LIGHTRUSS

Size 1



Forward Throw Asymmetric Symmetric

Size 2



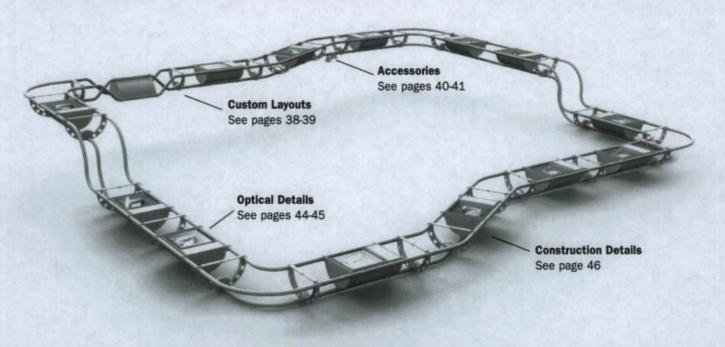
Forward Throw Asymmetric Symmetric Wide Symmetric

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Why using Lightruss just makes sense.

Lightruss Features



Why choose Lightruss?

Custom tailored to your specific job requirements, Lightruss can turn corners, change elevation, provide indirect lighting, invert for direct lighting and be finished to make a statement or blend into a space. Using optical systems, lamping options and spacing criteria, our dedicated team designs each Lightruss to suite the projects specific needs and even inspects each system before shipment. Whether you need IES recommended light levels for a recreational water park atmosphere or for digital TV sports coverage, Lightruss can deliver. Precision merchandising requires increased visibility and attraction. Lightruss systems can create that distinct look, as well as deliver the footcandles needed to achieve showroom quality illumination.

. Easy Installation Saves Time and Money

- Fewer power drops
- Hi-pot and continuity tested at factory
- Pre-assembled
- Pre-wired
- Integrally mounted ballast / Power Trays"

Application and Design Support

- Full engineering support from our Lightruss team

· Add Architectural Interest

- Create your own custom shape and layout
- Add color

Customization

- Light challenging spaces with unique layouts
- Supports mounted audio equipment and accessories

. Sizes Appropriate for Any Space

- Size 1 and 2
- Wide HID, fluorescent and quartz lamping ranges

Durable Construction

Finishes

- Durable powder coat finish
- Natatorium finish

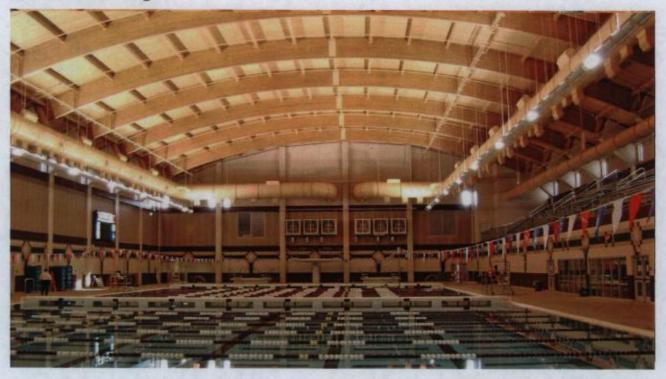
· Optical Control

- Multiple optical distributions
- Direct and indirect lighting combinations

· Emergency

- · Dimming
- . Shielding Options

Cost and Time Savings



Lightruss does more than provide high-quality lighting; it saves you time and money. When installing Lightruss, compared to individually hung fixtures, you will save an estimated 25 to 30 percent in installation time and money. Consider the following:

Prior to Installation (At factory)

- Built with integrally mounted Power Trays™
- · Pre-wired
- · Pre-assembled
- · Pre-aimed
- · Hi-pot and continuity test complete

During Installation

- · Installers level, plug and move onto the next section
- · Fewer power drops (typically two to four per system, depending on the size)

Lightruss Installation Quick Facts

· Starter section 30 minutes

 Common section 20 minutes



Do the Math

Typical Competition Pool - 75' x 45'

20 Hours (Approx.)

Our Lightruss team provides full service.

Full project support - start to finish.

BEFORE



PROJECT CHALLENGES

The current lighting solution presents the following problems:

- · Light Levels
- Low light levels create unsafe environments for occupants.
- Dark, cave-like feet
- · Direct Lighting
- Direct lighting over deck creates shadowing at the pool center.
- Downlights create surface glare
- . Pool Safety
 - Water glare obstructs a lifegaurds view to the pool bottom.

SPECIFICATION PROCESS

SPI's dedicated and experienced Lightruss team provides total service from initial inquiry through final installation.

START

Lightruss Introduction

SPI provides application photographs, budget parameters and references from similar projects. A video presentation is available explaining Lightruss and its many features and advantages.

Application Requirements

One of our Lightruss application engineers will interface with you and your design team to obtain the illumination and space parameters needed to begin the system design.

DESIGN PHASE

Construction Documentation

A complete set of documentation will be provided for inclusion in your bid. Overall layouts, circuiting diagrams and construction details are supplied.

Bidding

Our local representatives, in association with our Lightruss team, provide final project pricing, and can walk contractors through the installation process to assure they are comfortable with how the system is supplied and installed.

Consultation

SPI's Lightruss team offers consultation on our lighting system, as well as our competitors, to ensure an informed decision is made.



LIGHTRUSS SOLUTIONS

· Light Levels

- · Indirect Lighting
- · Pool Safety

A THE PARTY

INSTALLATION

System Construction

Lightruss is pre-wired, each light module is aimed and every section is pre-assembled at the factory. Each section is also individually packaged for shipment and ease of handling.

Installation

Each package and component is keyed to the installation drawings so all components are easily identified at the job site.



From the Field

Make an architectural statement.

Form, color and function.



Get creative.

Lightruss systems can twist and turn to create functional works of art. Unique, custom sculptural forms can be realized with standard Lightruss building blocks (see page 39). But don't stop there, add splashes of color by selecting any of our durable, eco-friendly powder coat paints. Whether Lightruss is used to create a bold statement or quietly blend in, you can always count on it to provide quality, high-performance illumination.



Create your vision.





The Building Blocks

Starter

- · (3) Tubes with connectors
- · (2) Bulkheads
- · (1) Custom length stem (power feed)
- · (1) Adjustable cable
- · (2) Canopies

- · (3) Tubes with connectors
- · (1) Bulkhead
- · (1) Adjustable cable and canopy

End

· (3) Tubes with connectors

Wall Mount

- · (3) Tubes with connectors
- · (1) Wall-mounted bulkhead and cover

T-Module

- · (3) Tubes with connectors
- · (2+) Bulkheads
- · (1) Adjustable cable and canopy

Elevation Change

- · (3) Tubes with connectors
- · (1) Adjustable cable and canopy
- · (1) Bulkhead

90° Radius

- · (3) Tubes with connectors
- · (1) Bulkhead
- · (1) Adjustable cable and canopy

45° Radius

- · (3) Tubes with connectors
- · (1) Bulkhead
- · (1) Adjustable cable and canopy

- · (3) Tubes with connectors
- · (1) Bulkhead
- · (1) Adjustable cable and canopy

Half Twist

- · (3) Tubes with connectors
- · (1) Bulkhead
- (1) Adjustable cable and canopy







More than just a lighting system.

Versatile. Flexibile. Adaptable.



This versatile system offers extensive design opportunities with its ability to round corners, accommodate elevation changes, wall mount for a cleaner ceiling and invert to provide a direct light source. A solid tube spacer section is also available to blend the lighting system with other architectural elements in an environment.

Lightruss' flexibility allows it to adapt to an application by incorporating emergency lighting, audio hardware or other features required for that space. Accent lighting to illuminate graphic elements and architectural details can be achieved by incorporating a custom wall-washing light modules into the system, or by adding track lighting.



Lightruss was strategically designed to be a base that a multi-purpose, integrated ceiling system can be built upon. Accessories can mount directly to the truss system and additional electronics can safely and easily run the necessary wiring and multiple circuits through Lightruss' auxiliary tubes.

Audio Equipment

Speakers can be mounted to the truss system or an empty lighting module can be provided for installation. Truss tubing is able to house the wiring from electronic accessories.

Theatrical and Track Lighting

Accent and dramatic lighting can be mounted to and integrated into a Lightruss system for the desired lighting effects and convenient maintenance. Truss tubing acts as a raceway and is able to house the wiring from additional lighting components.

Banners, Flags and Signage

Most banners, flags and other signage can be hung from the truss structure without added mounting points within the space.

Motion Sensor

Equipment such as motion sensors can mount directly to the Lightruss system and reduce energy consumption when the space is not in use.

Security Equipment and Lighting

Mount surveillance equipment to the truss system for added security. Recording equipment can be placed within an empty light module for ease of maintenance. Separate circuiting can be provided through the truss tubes for security, night and emergency lighting.

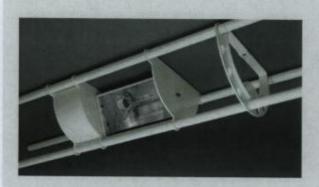
Wall-Washing

Illuminate graphic elements and architectural details by incorporating wall-washing light modules or track lighting into the system.

Accessories







A size for every space.

No space is too large or too small.

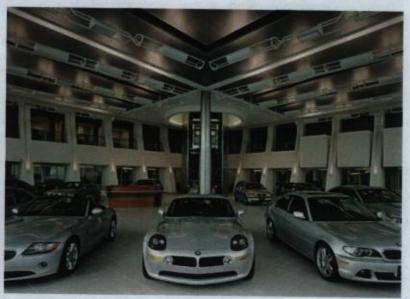
In order to accommodate projects of any scale, Lightruss systems are offered in two coordinating sizes. Each system can house forward throw, symmetric or asymmetric optics. These premium reflectors, paired with a variety of lumen packages, are able to meet the illumination requirements of any application.











Tel 262.242.1420 contact@spilighting.com www.specspi.com

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Available Sizes

Lightruss is offered in two complementing sizes. Size 1 is designed for more compact areas such as retail spaces, cafeterias and corridors, while Size 2 is more appropriate for larger areas such as airports, athletic facilities, natatoriums and shopping malls.



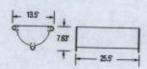
O Size 1

Size 1 complements the larger Lightruss system and provides indirect illumination in more compact environments such as retail spaces, stairwells, office areas and cafeterias. Size 1 Lightruss was designed for areas where corrosion is not a primary concern. Consult our factory if a natatorium paint finish is required. The light modules accommodate a variety of optical systems and lumen packages up to 400W metal halide, 250W quartz or 55W fluorescent.

O Size 2

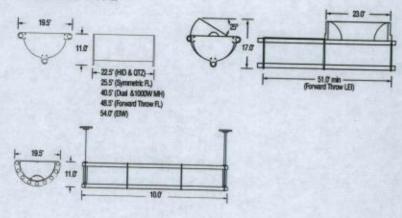
This size 2 Lightruss system is appropriate for large-scale areas such as athletic facilities, natatoriums, airport terminals, shopping malls, open office areas and large public spaces. Designed to withstand corrosive environments, such as natatoriums and underground transit facilities, this system uses non-corrosive hardware and all aluminum components are anodized and polyester powder coat painted. The Lightruss 2 modules can house single or dual lamp units with up to 1000W metal halide, 250W quartz and 80W fluorescent lamps.

Dimensions Size 1





Dimensions Size 2



Because experience matters...



Nearly 30 years of applications experience. Over 700 installations across North America.

Notable Projects

Optical control to light any application.

Optical Distributions

Lightruss reflectors create three optical distributions: forward throw, asymmetric and symmetric. These reflector-controlled light distributions, used in conjunction with a variety of lumen packages, provide the flexibility necessary to meet a project's illumination requirements.

Forward Throw

HID/QTZ

This optic projects light into a space, Ideal for delivering indirect illumination to the work plane with the highest level of usable light, Lightruss' forward throw optic minimizes the brightness on the surface planes near the luminaire.





Single Lamp

Dual Lamp

Asymmetric

HID/QTZ

In addition to projecting light into a space to provide indirect work plane illumination, Lightruss' asymmetric optics provide both ambient backlight on a vertical mounting surface and architectural highlighting of the ceiling plane.





Single Lamp

Dual Lamp

Symmetric

HID/FL/QTZ

Lightruss offers two unique light distributions created with symmetric optical systems. The traditional symmetric optic provides a directed light distribution used to deliver indirect illumination to the work plane, while architecturally highlighting the ceiling plane. The wide symmetric "batwing" distribution projects light at low angles, providing superior ceiling uniformity and maximizing fixture spacing.





Single Lamp

Dual Lamp

Distribution Curves

Lamping Size 1

Forward Throw	LEI
-	1203 (1) 70W T6 G12 MH
	1403 (1) 150W T6 G12 MH
	1723 (1) 150W T4 DC BAY QTZ
-	1753 (1) 250W T4 DC BAY QTZ
Asymmetric	LFA
	1403 (1) 175W PS MH
-	1503 (1) 250W PS MH
	1303 (1) 320W PS MH
	1603 (1) 400W PS MH
	1743 (2) 250W T10 Med QTZ
Symmetric	LFA
-	1401 (1) 175W PS MH
3	1501 (1) 250W PS MH
	1301 (1) 320W PS MH
	1601 (1) 400W PS MH
	1741 (2) 250W T10 Med QTZ
Symmetric Fluorescent	LFL
-	1831 (2) 39WTFL
	1841 (2) 40W TFL
100	1851 (2) 50W TFL
1000	1861 (2) 55W TFL
	1871 (3) 39WTT FL
	1881 (3) 40W TFL
	1891 (3) 50W TF FL
	1901 /3\ EEWIT D

Lamping Size 2

Forward Throw	LEI	Forward Throw	LEI
	2403 (1) 175W PS MH		5503 (2) 250W PS Mogul Mi
	2503 (1) 250W PS MH	430	5313 (2) 315W PS MH
	2313 (1) 315W PS MH		5303 (2) 320W PS MH
	2303 (1) 320W PS MH		5603 (2) 400W PS Mogul MI
	2603 (1) 400W PS MH		
	2743 (2) 250W T10 Med QTZ		
Asymmetric	LFA	Asymmetric	LFA
	2403 (1) 175W PS MH		5503 (2) 250W PS MH
	2503 (1) 250W PS MH	-	5303 (2) 320W PS MH
	2303 (1) 320W PS MH	1 100	5603 (2) 400W PS MH
	2603 (1) 400W PS MH 2743 (2) 250W T10 Med QTZ		5723 (4) 250W T10 Med QTZ
Symmetric	LFA	Symmetric	LFA
-	2401 (1) 175W PS MH		5501 (2) 250W PS MH
	2501 (1) 250W PS MH	-	5301 (2) 320W PS MH
	2301 (1) 320W PS MH	1	5601 (2) 400W PS MH
	2601 (1) 400W PS MH	Contract of the Contract of th	5721 (4) 250W T10 Med QTZ
	2741 (2) 250W T10 Med QTZ		
Wide Symmetric	LFB	Wide Symmetric	LFB
	2501 (1) 250W PS MH	-	5501 (2) 250W PS MH
THE STATE OF THE S	2301 (1) 320W PS MH	-	5301 (2) 320W PS MH
	2601 (1) 400W PS MH	A STATE OF THE STA	5601 (2) 400W PS MH
	2741 (2) 250W T10 Med QTZ		5721 (4) 250W T10 Med QTZ
Symmetric Fluorescent	LFL	Asymmetric	LFU
-	2831 (3) 39WTFL	4	5803 (1) 1000W BT37 MH
A STATE OF THE STA	2841 (3) 40WTFL		(1) 100011 0101 1111
	2851 (3) 50W TT FL	TO SECURE	
	2861 (3) 55W TFL		
	2380 (3) 80W TFL		
	2871 (4) 39W TFL		
	2881 (4) 40W TT FL		
	2891 (4) 50WTFR	Forward Throw	
	2454 (4) 54W T5HO FL	Fluorescent	LEI
	2801 (4) 55WTT FL		and the second second
	2480 (4) 80W TF FL	-	10815 (3) 28W T5HO FL
	2654 (6) 54W T5HO FL	W. Company	10816 (3) 32WT8 FL
		M. Comments	10817 (3) 54W T5HO FL



1801 (3) 55WTT FL 1454 (4) 54W T5HO FL

See page 43 for module dimensions.



LEI

10815 (3) 28WT5HO FL 10816 (3) 32WT8 FL 10817 (3) 54WT5HO FL

Forward Throw

Attention to detail.

Truss Sections

- Truss Tubes
 - · Three metal tubes held in a triangular configuration by bulkheads.
 - · Size 1: (3) 1.125" diameter steel tubes, available in section lengths up to 8'.
 - · Size 2: (3) extruded 1.5" diameter aluminum tubes, available in section lengths up to 10'.
- - Delivered pre-wired and factory assembled.
- Auxiliary Wireways
 - · Provision for multiple circuits and/or switching, please consult factory for multiple circuiting of size 1 Lightruss.
 - · UL listed (US and Canada) for damp locations (Not recommended for exterior use).
- Bulkhead
 - · Cast aluminum.
 - · Provides vertical support of truss.
 - · Point of attachment and adjustment for stainless steel cable or stem supports.
 - · Splice compartment.

Mounting

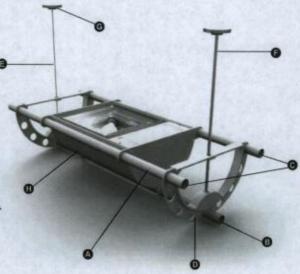
- (a) Cable
 - · Corrosion- and heat-resistant Inconel* aircraft suspension cable.
- - · Power feed: 5/8" OD stainless steel stem, painted - specify color.
- - · 30° swivel and white plastic canopy.
 - · Canopy twist locks into position with no exposed fasteners.
 - · Inner steel support bracket attaches to 4" octagonal box.

Wall Mount

- · Recessed outlet box.
- · Overhead suspension required for runs of 8' or more (size 1) and 10' or more (size 2).

Light Modules

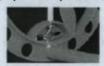
- (B) Module Components
 - · Each light module houses lamp(s), optical assembly and ballast.
 - · Light modules are made from 0.25" extruded aluminum side panels and 0.25" cast aluminum end caps.
 - · Stainless steel set screws secure module to truss tubes.
 - · All light modules are pre-wired, pre-focused and pre-assembled into the Lightruss system to simplify installation.
 - · Light modules and Lightruss sections are individually packed and labeled to coordinate with the installation drawings.



@ Canopy Detail



Splice Compartment



Wireway Detail



Optics

Forward Throw

· HID and tungsten halogen modules utilize a segmented 95% reflective, specular aluminum reflector with an impact and heat-resistant, tempered glass lens.

Asymmetric and Symmetric

· HID and tungsten halogen modules utilize a brightened and anodized, hydroformed, aluminum reflector with an impact and heat resistant tempered glass lens.

Symmetric Fluorescent

· Modules have die-formed aluminum, 92% reflective superwhite reflector.

Integral Ballasts

- · HID Power Tray™ is supplied with a quick-connect plug.
- · HID ballasts are (EISA) Energy Independence and Security Act compliant.
- · Thermally protected.
- · Class "B" sound rating.
- · Silicone cushions are used in HID ballast mounting to minimize ballast noise and vibration in the system.
- · Visit www.specspi.com/resources or contact factory for specific ballast information.

- · HPF electronic ballast with low harmonic distortion (<20%).
- · Thermally protected.
- · Minimum starting temperature is 0°F.
- · Class "A" sound rating.

Powder Coat Paint

- · Standard finish is thermoset polyester powder coat. All metal surfaces go through a 5-stage pretreatment process prior to powder coat application.
- · Consult factory if natatorium (non-corrosive) finish is required.

Dimming (Fluorescent only)

Standard Options

-	annual (maraganit ann)
EMI	Integral Emergency
EPT	Encapsulated Core and Coil Power Tray TM
F	Fusing (Factory Installed)
LD	Acrylic Prismatic Diffuser Lens
ш	Downlight Louvers (For modules aimed in a direct orientation)
Q	Standby Quartz Lighting
OFM	Quartz Emergency Light Circuit

LD Option



LL Option



See Technical Information on page 300 for further details.



Lightruss FAQs

O Is Lightruss easy to install?

Yes! You'll save approximately 25 to 30% in time and money versus independently hung fixtures. See page 35 for an installation estimate breakdown.

• How is Lightruss installed, wired and mounted?

The completely assembled, wired and focused sections need only to be unpacked, lamped, ballasted, positioned and mounted as predetermined. Our HID multi-tap Power Tray™ with quick-connect plugs allow for fast installation, maintenance access and replacement. The bulkheads provide vertical support where stems and cables can attach at the splice compartment. Lightruss sections are joined at the end of each tube with an expansion bracket that provides positive locking action.

O How many fixtures can be fed per power feed?

Size 2 Lightruss accommodates 12 gauge wiring and can service 8 dual 400W fixtures per power feed. Size 1 Lightruss accommodates 16 gauge wiring and can service 8 single 400W fixtures per power feed. All three tubes are UL listed as raceways and can house two circuits per tube. (All numbers assume a 277 volt, 20 amp system.)

1 How do I specify Lightruss?

A custom number is assigned (i.e. LT 12345) to the entire bill of materials, order, drawings and carton labels. Then our Lightruss team will work with you to design the system. When you approve the layout, we will build the system and send it to the job site for installation. For a detailed example of the Lightruss specification process, see page 36.

O How do I determine which light module is needed?

The desired light levels determine light module selection and spacing. Our Lightruss team will assist in determining the appropriate combination of modules and lampings for your application.



O Can Lightruss come in any length?

Composed of sections between 12 and 120 inches, Lightruss systems can be supplied in any length.

Why is Lightruss such a good choice for natatoriums?

Our lighting system installs over the pool deck, lowering maintenance costs. Indirect lighting eliminates water surface glare, allowing lifeguards to see directly to the bottom of the pool. Standard size 2 Lightruss system's all aluminum components are anodized and powder coated with a 2 mil thickness polyester powder coat paint for a non-corrosive finish and all hardware is suitable for natatorium environments. Consult factory for size 1 Lightruss in a natatorium application.

② Are Lightruss systems built with high-quality components?

Yes! Lightruss was carefully designed and all details were considered. Machine tolerances on all components are held to within +/- .030" and silicone cushions ensure quiet system operation.

O How are security equipment, auxiliary lighting and other accessories integrated into Lightruss systems?

The three-tube system can serve as independent wire raceways for multiple circuits, track lighting or incorporation of additional needs such as security cameras, sound systems or signage. Empty modules can serve as a place to conceal speakers and additional equipment.

O Can I specify specific circuitry schemes?

Yes! We can work with the engineer to incorporate different light levels with different wiring schematics (i.e. 3 phase or phase to phase).

② Are Lightruss light modules enclosed?

AliD and quartz light modules are supplied with a removable, tempered glass lens. A lens option is available for fluorescent modules.

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lodmy	Otty	Label	Description	Arrangement	Lumens LLF	LF.
	06	LF-1 Existing	ECHO 16 5 1M100	00-PWSINGLE	110000	0.650

Numeric Summary							
abel	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
Pool Workplane	Illuminance	Fc		145	0.0	N.A.	N.A.

ranging and on mind					
ahol	Aure	Mov	Min	Aug Min	Bac/Alin

LPD Area Summary Area Total Watts LPD

u of L Natatorium Relighting 1000 MH SPI LightTruss 5'-0" OC 70/50/20 Reflectances

Date:10/28/2008

SF Engineering

Lochness Drive Lexington, Ky Voice Number : (859) 271-3246

Voice Number : (859) 271-324 Gcarter@sfengineering.com



Your Logo Goes Here

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263	LF-1 Existin	47.875	90.125	38.875	06	0	289	LF-1 Existin	102.87
4	LF-1 Existin	52.875	90.125	38.875	06	0	290	LF-1 Existin	107.87
265	LF-1 Existin	57.875	90.125	38.875	06	0	291	LF-1 Existin	112.87
9	LF-1 Existin	62.875	90.125	38.875	06	0	292	LF-1 Existin	117.75
1	LF-1 Existin	67.875	90.125	38.875	06	0	293	LF-1 Existin	122.75
0	LF-1 Existin	72.875	90.125	38.875	06	0	294	LF-1 Existin	127.75
6	LF-1 Existin	77.875	90.125	38.875	06	0	295	LF-1 Existin	132.75
0	LF-1 Existin	82.875	90.125	38.875	06	0	296	LF-1 Existin	137.75
271	LF-1 Existin	87.875	90.125	38.875	06	0	297	LF-1 Existin	142.75
272	LF-1 Existin	92.875	90.125	38.875	06	0	298	LF-1 Existin	147.75
8	LF-1 Existin	97.875	90.125	38.875	90	0	299	LF-1 Existin	152.75
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	LF-1 Existin	107.875	90.125	38.875	06	0	301	LF-1 Existin	162.75
100	LF-1 Existin	112.875	90.125	38.875	06	0	302	LF-1 Existin	167.75
_	LF-1 Existin	47.875	175.5	38.875	270	0	303	LF-1 Existin	172.75
	LF-1 Existin	52.875	175.5	38.875	270	0	304	LF-1 Existin	177.75
	LF-1 Existin	57.875	175.5	38.875	270	0	305	LF-1 Existin	182.75
	LF-1 Existin	62.875	175.5	38.875	270	0	306	LF-1 Existin	187.75
~	LF-1 Existin	67.875	175.5	38.875	270	0	307	LF-1 Existin	192.75
	LF-1 Existin	72.875	175.5	38.875	270	0	308	LF-1 Existin	197.75
_	LF-1 Existin	77.875	175.5	38.875	270	0	309	LF-1 Existin	202.75
10	LF-1 Existin	82.875	175.5	38.875	270	0	310	LF-1 Existin	207.75
	LF-1 Existin	87.875	175.5	38.875	270	0	311	LF-1 Existin	212.75
	LF-1 Existin	92.875	175.5	38.875	270	0	312	LF-1 Existin	217.75
288	I E 1 Evietin	07 875	175.5	38.875	270	0	313	1 F-1 Existin	222.75

38.875 38.875

175.5

102.875 07.875 12.875 17.75 122.75 127.75

90.125

90.125 90.125 90.125

90.125 90.125 90.125 90.125 90.125 90.125 90.125 90.125 90.125

137.75

147.75 152.75 157.75

162.75 167.75

177.75 182.75 187.75

192.75

202.75 202.75 207.75 212.75 217.75

38.875



Your Logo Goes Here

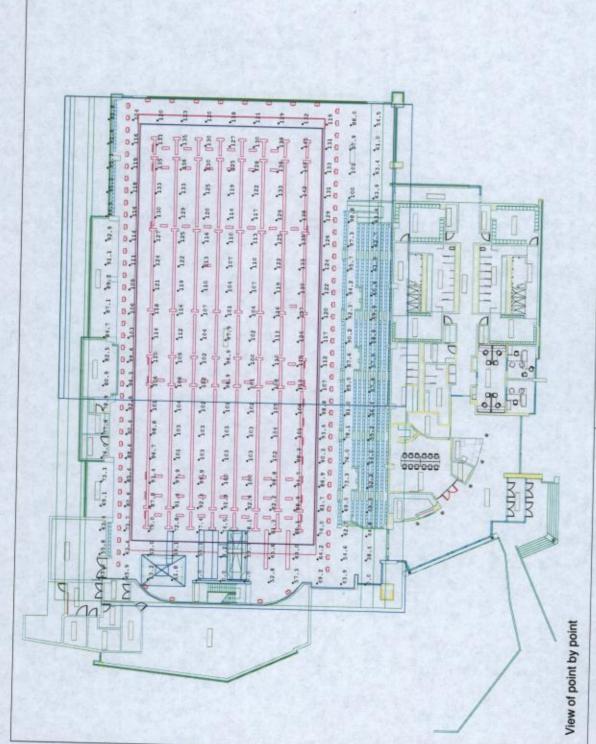
U Of L Natatorium Relighting 1000 MH SPI LightTruss 70/50/20 Reflectances 5'-0" OC

SF Engineering Lochness Drive Lexington, Ky

Voice Number: (859) 271-3246 Gcarter@sfengineering.com

Date:10/28/2008

Page 2 of 4



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SF Engineering Lochness Drive

U Of L Natatorium Relighting 1000 MH SPI LightTruss

70/50/20 Reflectances

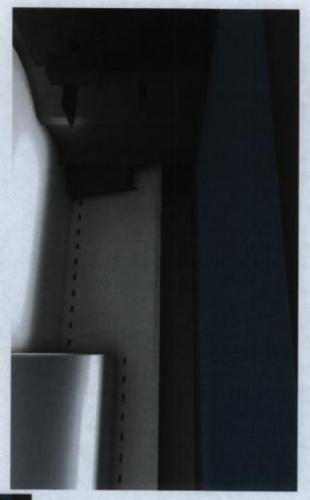
5'-0" OC

Lexington, Ky

Voice Number: (859) 271-3246 Gcarter@sfengineering.com



Image File: Render View 1





Lexington, Ky Voice Number: (859) 271-3246 Lochness Drive

Gcarter@sfengineering.com



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U of L Natatorium Relighting 1000 MH SPI LightTruss 5'-0" OC 70/50/20 Reflectances

Hendricks, Irma L.

From: Lanham, Chick E.

Sent: Wednesday, December 16, 2009 1:33 PM

To: Hendricks, Irma L.

Subject: FW: U of L

please print

From: Thad Lanham [mailto:telanham.lhi@lighting.net]

Sent: Friday, November 20, 2009 12:35 PM

To: Lanham, Chick E. Cc: Greg Carter Subject: U of L

Greg.

As I understand it, Steve does not have this information so I am sending it again.

This is the project at Georgia Tech we were comparing to. We incorporated a fluorescent on the bottom of the fixture for emergency and additional light in lieu of the bank of floodlights.

Thad

