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Architectural Review Board Staff Report

- Project Type: Architectural Specialty Lighting Package
- Meeting Date: November 8, 2018

From: Cassie Harashe, Planner

Location: West of Schoettler Rd and south of Green Valley Drive

Description: Logan College of Chiropractic Lighting Package (2018): Architectural Specialty Lighting Package for a 112 acre tract of land zoned "NU" Non-Urban District located west of Schoettler Rd, and south of Green Valley Drive (20R430046).

PROPOSAL SUMMARY

The request is for a lighting package specifically for the uplighting of the legs of the Bell Tower Structure within the Logan College of Chiropractic development.

The applicant is requesting to install two light fixtures at the base of each leg to shine LED lights upward illuminating the legs and crossmember sections of the Bell Tower. While the applicant



Figure 1: Aerial & Surrounding areas

has stated that most of the time fixtures will utilize white lights, they are requesting to utilize the full spectrum of colors for special events on campus.

HISTORY OF SUBJECT SITE

According to St Louis County records, the first buildings were built in 1960. Over the years, there have been many amendments to the site, including an Amended Site Plan approved in 2005 for the addition of the amphitheater.

In 2017, the applicant submitted an application for Amended Architectural Elevations. This application originally included light fixtures located at the bottom of the crossmembers for uplighting of this section of the Bell Tower. During the review process, the applicant moved the lights closer to the roof of the Bell Tower to downlight the cross member sections. At the October 11, 2017 meeting, the Architectural Review Board (ARB) recommended approval of the downlighting with the following conditions:

- 1. The lights remain static, with no flashing, moving, or changing for a period of no less than 24 hours.
- 2. All housing, attachments, and accessories match the color of the tower exactly.

These conditions were included in a revised narrative that was submitted to the Planning Commission for their review at their October 23, 2017 meeting. The Planning Commission



Figure 2: Existing Colored Lighting on Bell Tower

approved Amended Architectural Elevations for the downlighting of the Bell Tower. The lights have since been installed and are being utilized on the campus. A photo of the Bell Tower with blue lighting can be seen in Figure 2. Since their approval in 2017, the City of Chesterfield has established a Lighting Package application and procedure. The applicant is proposing to comply with the previous recommendations from the ARB that the lights will remain static, with no flashing, moving, or changing for a period of no less than 24 hours, and that the housings will be integrated within the landscaping planters at the base of the tower. Earlier this year, the applicant applied to add a landscaping planter around the base of the Bell Tower; permits have been issued, but the work has not yet been completed. This planter box will house the proposed lighting fixtures.

STAFF ANALYSIS

The Unified Development Code allows for Architectural Specialty Lighting Packages (Sec. 31-04-03.C) to provide comprehensive, complementary and unified architectural specialty lighting throughout a single development. This is the first applicant to utilize the specialty lighting package application. The review factors include color, intensity, impact on surrounding properties, and accentuation of architectural features of a development. Since this request is for specialty lighting specifically for the Bell Tower at Logan College of Chiropractic, any other lighting fixtures on the campus would have to comply with the regulations of the Unified Development Code.

The Code goes on to provide several considerations for Specialty Lighting Packages.

• Architectural specialty lighting should highlight and accentuate traditional building detailing and architectural features. Additionally, precise lighting applications should highlight distinctive architectural features.

The applicant has stated in their narrative statement that the proposed lighting of the legs would 'accentuate the architectural detailing of the crossmember sections.' The photometric plan (Figure 4) shows the highlighting of the crossmember sections.

 The color temperature of architectural specialty lighting should underscore the building materials and character. Also, when non-traditional lighting color is requested, changes in color shall be limited to one (1) change within any twenty-four (24) hour time period. Modifications to this standard shall require a 2/3 vote of the Planning Commission. Additionally, architectural specialty lighting should be unobtrusive in intensity and should not turn a building into an attention-getting device or blanket signage.

The color of the Bell Tower is white. The applicant has indicated that most of the time white lights will be used, but they would like to be able to utilize the full spectrum of colors to allow for campus events, such as 'pink for breast cancer awareness month, blue for Blues or red for St. Louis Cardinal rally days.' The code states that color temperature should underscore the building materials and colors, however the applicant is requesting the full spectrum of colors and therefore a large spectrum of color temperatures. The applicant has provided several photos of the tower lit in a variety of colors for reference.



Figure 3: Dual Color Lighting on Bell Tower

The applicant has indicated the lights will be static in nature and will not change within a 24 hour period. However, due to the LED nature of the lights, this single change could cast two or more colors on the tower at one time. The photos submitted by the applicant show examples of two colors on the tower at the same time (Figure 3).

The light levels are indicated on the color photometric plan (Figure 4), which have footcandles that range from 50 foot candles, at the base of the legs and upper crossmember sections, down to 0 footcandles on the edge of the roof to indicate no sky glow will be emitted. A large portion of the tower will be lit in in the 6 to 12 footcandle range.

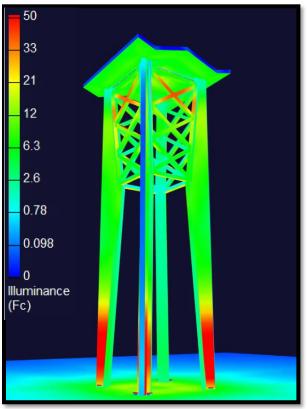


Figure 4: Proposed Color Photometric Plan

• All proposed light fixtures should be permanently mounted.

The applicant has indicated that the fixtures will be permanently mounted.

Architectural specialty lighting shall not interfere with or obscure the public's capacity to
receive information, or cause visual confusion by interfering with pedestrian or vehicular
traffic. Architectural specialty lighting shall conform to the character of the community,
enhance the visual harmony of development, and preserve the public health, convenience,
welfare and/or safety within the City of Chesterfield by maintaining the high aesthetic quality
of the community.

Due to the location of the tower being centrally located on the campus and its significant distance from any roads (Figure 7), the proposed lighting should not interfere with or obscure the public's capacity to receive information, or cause visual confusion by interfering with pedestrian or vehicular traffic. However, the 80' tall Bell Tower is visible from adjacent properties and roadways.

The applicant has also stated that the fixtures will be integrated into the landscaping beds and will coordinate with the existing site lighting components. As of this writing, the applicants have not finalized the planting selections for the planter box. A variety of perennials in a variety of heights are being considered. The planters can be seen at the base of the tower in Figure 5 and the location of the lights can be seen in Figure 6. The landscaping is intended to screen the light fixture housings from view, and does not impact the light that will be cast upwards.

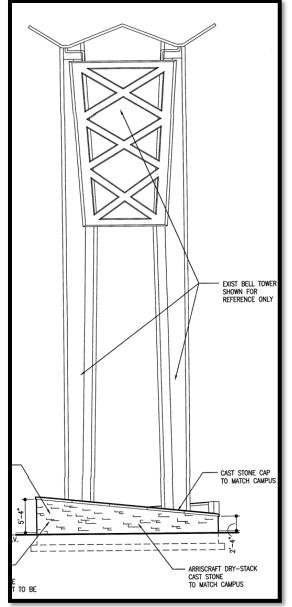


Figure 5: Bell Tower with Planter Box

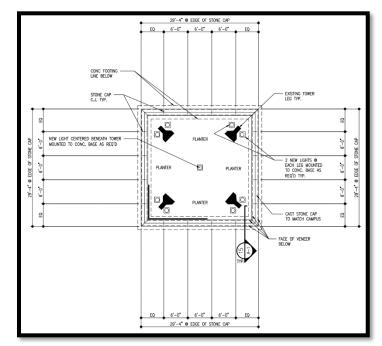


Figure 6: Planter Box with Light Detail

Consideration of flexibility in architectural specialty lighting criteria is based on a number of review factors, including, but not limited to, the physical impact of the proposed architectural specialty lighting package, the quality of the proposed architectural specialty lighting package, and mitigation of unfavorable conditions such as excessive lighting, light spillover, height, and other related conditions and potentially negative impacts. However, in no instance shall architectural specialty lighting applications result in light trespass at the property line.

As seen in the photometric rendering of the tower above (Figure 4), the lights would be pointed upward and placed at an angle to ensure no off site glare, and would be shielded by the tower itself. Below is a figure (Figure 7) showing the height of various buildings and the distance the Bell Tower is located from property lines. While there is a significant distance between the tower and the adjacent properties, the significant grade change does make the Bell Tower visible from offsite.



Figure 7: Structure heights and distance of the tower to the property line

DEPARTMENTAL INPUT

Applications of specialty lighting can be permitted if they are found to be architecturally integrated with the building design and harmonious with the surrounding area. As such, Staff is requesting a recommendation from the Architectural Review Board (ARB) on the Lighting Package for Logan College of Chiropractic. All recommendations made by the ARB will be included in Staff's report to the Planning Commission.

MOTION

The following options are provided to the Architectural Review Board for consideration relative to this application:

- 1) "I move to forward the Lighting Package for Logan College of Chiropractic, as presented, with a recommendation for approval (or denial) to the Planning Commission."
- 2) "I move to forward the Lighting Package for Logan College of Chiropractic, to the Planning Commission with the following recommendations..."

Attachments

1. Architectural Review Packet Submittal



1851 Schoettler Road, Chesterfield, MO 63017(636) 227-2100www.logan.edu

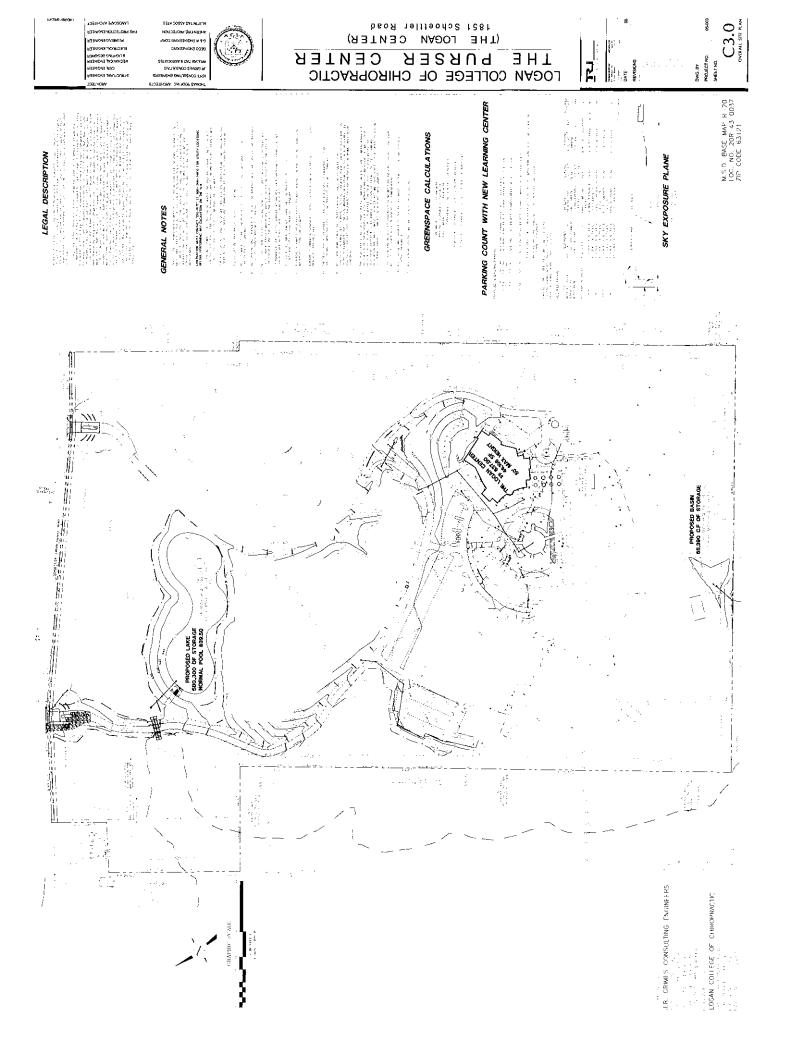
Tower Lights,

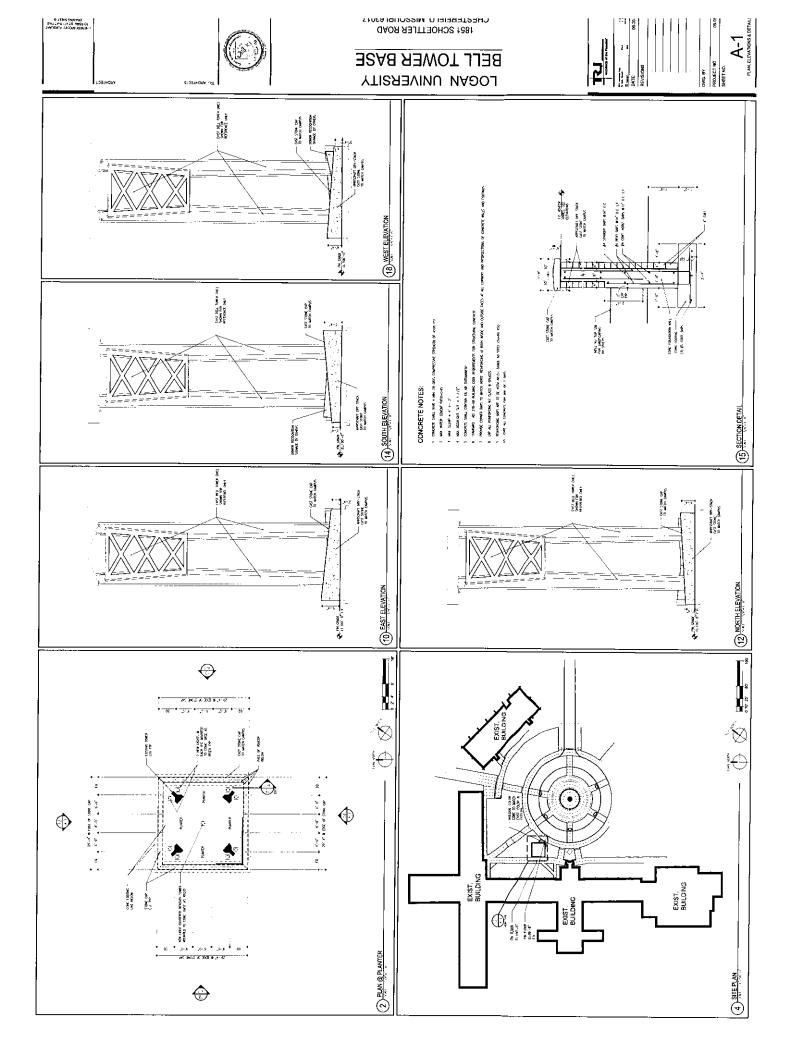
Logan University's bell tower was constructed in 1960 by its predecessor, MaryKnoll Seminary. The accent lights at the bottom of the tower were upgraded in 2007 when new flood lights were also added. Logan is proposing to change these accent lights to LED lighting to be installed in the third phase of the restoration project. The second phase is under way and the planter is currently being added at the base of the bell tower.

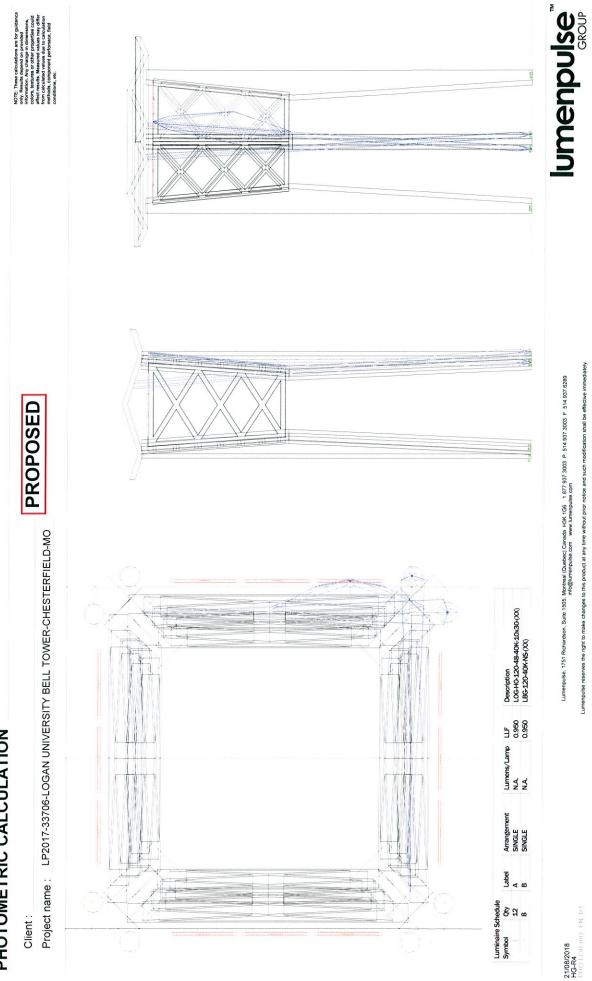
Phase three will include updating two fixtures on either side of each leg at the base of the bell tower to LED fixtures. Each lighting component will project directed LED lighting onto each tower leg. This light will illuminate the inside portion of the legs as well as accentuate the architectural detailing of the crossmember sections. The design intent is that the lighting will be captured by the existing canopy roof structure covering the bell tower. All lighting components will be permanently mounted, and the light fixtures will be architecturally integrated into the landscaping and will coordinate with the existing style of site lighting components.

This proposed lighting will not only save energy but will also act as a marketing tool for Logan. With the new LED lights encompassing the entire spectrum of colors, it gives Logan the opportunity to use different lighting for different events. For example, pink for breast cancer awareness month, blue for the Blues or red for the St. Louis Cardinal rally days. These special events will be occasional and normally the lights will be white, and on a dusk-to-dawn controller, as they are now. The lights will remain static, with no flashing, moving or changing for a period of no less than 24 hours. Also, all housing, attachments, and accessories match the tower exactly.

ARCHITECTURE | INTERIORS | PLANNING | CONSULTING | GRAPHICS







PHOTOMETRIC CALCULATION

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PHOTOMETRIC CALCULATION

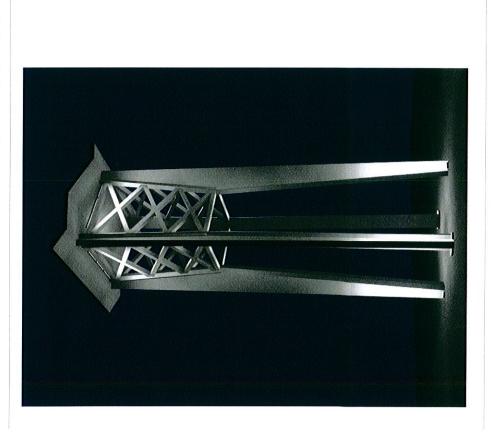
Client :

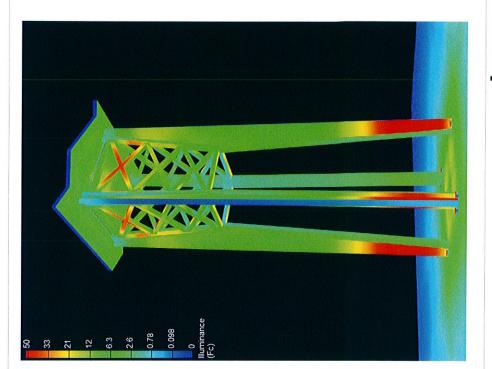
Project name : LP2017-33706-LOGAN UNIVERSITY BELL TOWER-CHESTERFIELD-MO





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GRANDE COLOR CHANGING

Client		Project name		
Order#	Туре	Qty		
FEATURES AND E Physical : • low copper conte • Heavy aluminum • Stainless steel harr • Silicone sealing d • Clear tempered g • Dual chamber des • Electro-statically a • 10.90 kg / 24 lk • EPA: Front = 1.60 • IKO9 rated • Meets 3G ANSI (BENEFITS ent high pressure die-cast aluminum hous formed yoke (standard yoke included) dware levices lass lens sign for heat management and ease of n pplied polyester powder coat finish	sing maintenance . ft./ 0.090 sq. m.		
 3,328 delivered la 2,522 delivered la Color mixing optic 72 LEDs for RGB a 48 LEDs for RGBV 6°, 10°, 20°, 40 Lumen maintenance Lumen measureme 	umens and 134,713 candelas at nadir umens and 190,032 candelas at nadir umens and 126,585 candelas at nadir ons: RGB (3 channels), RGBW or RGBA color mixing option (36 LEDs per board) V and RGBA color mixing options (24 L °, 60° optics available te 120,000 hrs [L70 @ 25°C] nts comply with LM - 79 - 08 standard ard or per fixture (configured with Lumen	(RGBW full output, 6° optic) (RGBA full output, 6° optic) (4 channels) EDs per board)	c)us (RGB) VN	C C E RoHs IKC Iumen C Photometric Summa V color mix, full outp Delivered Intensit Output [Im] [peak c 3,328 190,03
Operating temperating	atures: -25° C to 50° C [-13F to 122F]		NS NF	3,534* 117,684 3,412* 23,830
Electrical : • Line voltage luming	aire for 100 to 277V			3,332* 8,903*
 Power and data ir 100 watts Control options: Lu 	n 1 cable, 3ft/1m cord standard (#16-5 umentalk or DMX/RDM enabled	5), other lengths available	compli *Estimated.	2,987 * 2,899 * performance is measured ance with IESNA LM-79-0 Consult Lumenpulse webs r the latest IES and LDT file
TOP VIEW 13 3/8 [339mm] Corora #2 Boord #1 Boord #1 Boord #1 FRONT VIEW Stondard Y	5 <u>3</u> " [146mm] • • • • • • • • • • • • • • • • • •	75 on is not required for normal outdoor exposur	Standard Yoke	
	pyright lumenpulse 2017 1.877.937.3003	5-year limited warranty.	a strange by	menpulse

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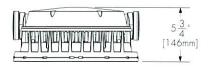
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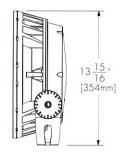
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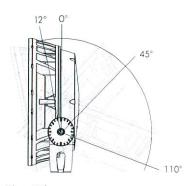
MOUNTING OPTION



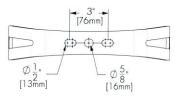




Short Yoke mounting



Short Yoke mounting adjustable pivot limits



Standard and Short Yoke mounting holes pattern

OPTICAL OPTIONS *Factory installed



LSLH Linear Spread Lens Horizontal distribution (not adjustable on site)



LSLV Linear Spread Lens Vertical distribution (not adjustable on site)

Factory installed, available for VN to FL optics . See Optical Accessories for field adjustable spread lens.

2/9

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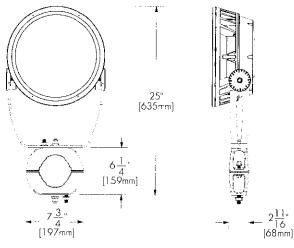
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ACCESSORIES

Order separately

Mounting Accessories



PM4 Round Pole Mounting Accessory Shown *Consult factory for square pole section.

4°

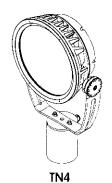
[100mm]

	PM4	PM4.5	PM5
For pole Ø	4"± 1/16'	4.5'±1/16'	5' ± 1/16"
	101.6 mm± 1.6mm	114.3mm±1.6mm	127mm ± 1.6mm

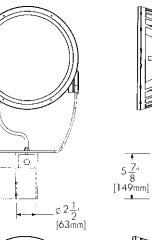
*Consult factory for other pole diameters.

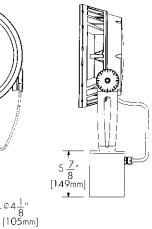


TN2 Tenon adapter to fit on 2 3/8" O.D. tenon

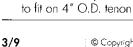


Tenon adapter





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4°

[100mm]

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PM4-1, PM4.5-1, PM5-1 Round Pole Mounting accessory single fixture



PM4-2, PM4.5-2, PM5-2 Round Pole Mounting accessory twin fixtures

When PM4-2, PM4.5-2 or PM5-2 are specified, one bracket assembly is supplied per 2 fixtures unless otherwise specified.

ACCESSORIES - continued

Order separately. Note: installed optical accessories will affect the maximum pivot limits for each mounting option, consult factory for details.

Optical Accessories:

- LBG-SNW-__-BK Snoot Wide accessory. Please specify desired exterior finish from the list below. Interior surface painted black.
 - LBG-VS-__-BK Visor accessory. Please specify desired exterior finish from the list below. Interior surface painted black.
 - LBG-WG-____ Wire Guard accessory. Please specify desired exterior finish from the list below.
 - Linear Spread Lens Adjustable accessory. Please specify desired exterior finish from LBG-LSLA-___ the list below.
 - Available finishes: **BK** - Black Sandtex BRZ - Bronze Sandtex SI - Silver Sandtex WH - Smooth white **BKTX -** Textured black BRZTX - Textured bronze, non-metallic GRATX - Textured medium gray **GRNTX** - Textured green WHTX - Textured white CC - Custom color and finish (please specify RAL color)¹

Accessory combinations:

+	Snoot	Snoot Wide	Visor
Linear Spread Lens Adjustable	YES	YES	YES
Wire Guard	YES	NO	YES

Accessory combinations must be ordered together on a single line. Ex: A Snoot + Wire Guard combination order code is LBG-SNWG-BK-BK.

Notes:

North American RAL colors specified with RAL number only are provided with a smooth/high-glass finish. Please consult factory for other RAL textures and glasses, or to match alternate color chorts. Final color matching results may vary.

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COLOR CHANGING

ACCESSORIES - continued

Order separately

Control Systems:

112.	
LTO2	lumentouch is a wall mount DMX 512 controller keypad.
LCU	lumencue is a USB / mini SD DMX 512 controller.
LID	LumenID is a diagnostic and addressing DMX 512 controller. It must be specified on all DMX applications. Refer to LID specification sheet for details.
LID-lt	LumentalkID is a diagnostic and addressing controller. It must be specified for all Lumentalk (LT) applications. Refer to LID-LT specification sheet for details.
LTN	Lumentone is a simple pre-programmed DMX 512 controller with a push button rotary dial and live feedback.

Control Boxes:

CBX DMX/RDM control box. Up to six power and data outputs to fixtures or fixture runs. Ethernet enabled option. Refer to CBX specification sheet for details.

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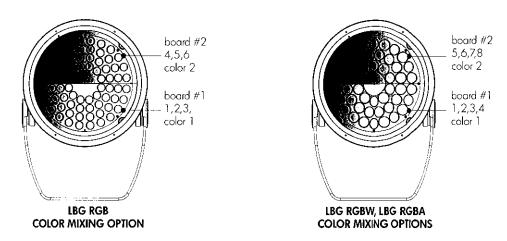
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RESOLUTION DETAILS

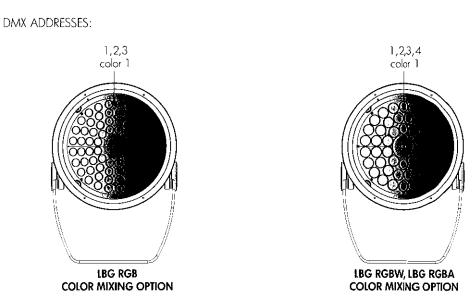
Fixture resolution can be configured on-site within the LumenID V3 software. A DMX/RDM enabled CBX is required.

Resolution per board: each board is addressed independently

DMX ADDRESSES:



Resolution per fixture: each fixture is addressed independently



6/9

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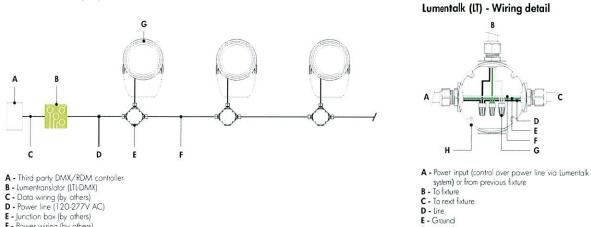
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TYPICAL WIRING DIAGRAMS

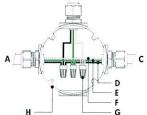
Wiring Color Code

American Color Code	CE Color Code	USE
Green	Yellow/Green	Ground
Black	Brown	Live 100-277V
White	Blue	Neutral
Red/Purple	Black	0-10V / Data +
Orange	Grey	0-10V / Data -

Lumentalk (LT)



F - Power wiring (by others)G - Lumenbeam Grande (LBG-LT)



F - Neutral G - Wire-nuts (by others)

H - Junction box (by others)

Notes:

- Consult factory for specific applications and maximum fixture count/cable length recommendations.
 Lumentalk enabled fixtures must be commissioned using LumentalkID software and a LID-LT. Consult factory for details.
 Maximum of 1 transmitter (Lumentranslator or Lumentink) per system.
- No third party fixtures allowed on the same circuit.
- 1 DMX controller per Lumentalk network, maximum of 48 DMX channels per Lumentalk network (minimum step transition update rate is 1 second, minimum fade time between two colors is 1 minute). Consult factory for applications that require additional capabilities.

• 100 watts per fixture.

7/9

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TYPICAL WIRING DIAGRAMS - continued

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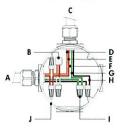
Wiring Color Code

American Color Code	CE Color Code	USE
Green	Yellow/Green	Ground
Black	Brown	Live 100-277V
White	Blue	Neutral
Red/Purple	Black	0-10V / Data +
Orange	Grey	0-10V / Data -

Star Layout (DMX/RDM)

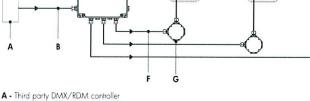


DMX/RDM - Wiring detail



A - From CBX or previous fixture

- ${\bf B}$ Lumenterminator (use at the end of each run only)*
- C To fixture D - Data -
- E Data +
- F Neutral
- G Ground H - Line
- I Wire nuts (by others)
- J Junction box (by others)



- B Data input (Belden 9841 or equivalent, by others)
 C Data output to next CBX (optional, not isolated/not boosted)

D

- D CBX-ST
- E Power input (100-277V) F - Power and data output to fixture (wiring by others) G - Junction box (by others)
- H Lumenbeam Grande (LBG-DMX/RDM)

A - Third party DMX/RDM controller

E - Power input (100-277V)

G - Junction box (by others)

B - Data input (Belden 9841 or equivalent, by others)

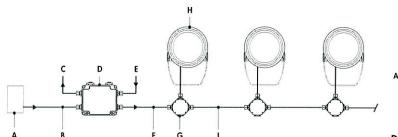
F - Power and data output to fixture (wiring by others)

H - Lumenbeam Grande (LBG-DMX/RDM)

I - Power and data wiring (by others)

C - Data output to next CBX (optional, not isolated/not boosted)

Daisy Chain Layout (DMX/RDM)



DMX/RDM - Wiring detail (first or middle of run)

- с UU WID
- A From CBX or previous fixture B - To fixture C - Data +
- D Data E - To next/from previous fixture
- F Line G - Ground
- H Neutral
- I Wire nuts (by others) J - Junction box (by others)

DMX/RDM - Wiring detail (end of run)

- C UU UU
- A From CBX or previous fixture B - Lumenterminator
- C To fixture D - Data -
- E Doto -
- F Neutral
- G Ground
- H Line I - Wire nuts (by others)
- J Junction box (by others)

Notes:

D - CBX-DS

- Consult factory for specific applications and maximum fixture count/cable length recommendations.
 Maximum of 32 DMX/RDM enabled fixtures per CBX output.
 Maximum of 4 DMX/RDM repeaters/CBX cascading in line.

- Maximum of 6 outputs per CBX-ST, maximum of 1 output per CBX-DS.
- · Maximum 3ft [1m] fixture cable length recommended for daisy chain layout.
- RGB color mixture option requires 3 DMX addresses. RGBW color mixture option requires 4 DMX addresses. RGBA color mixture option requires 4 DMX addresses. • 100 watts per fixture.
- * DMX terminator is required at the end of each run to maintain data integrity. (2x) DMX lumenterminator included per CBX-DS, (6x) DMX lumenterminator included per CBX-ST. See installation instructions for details.

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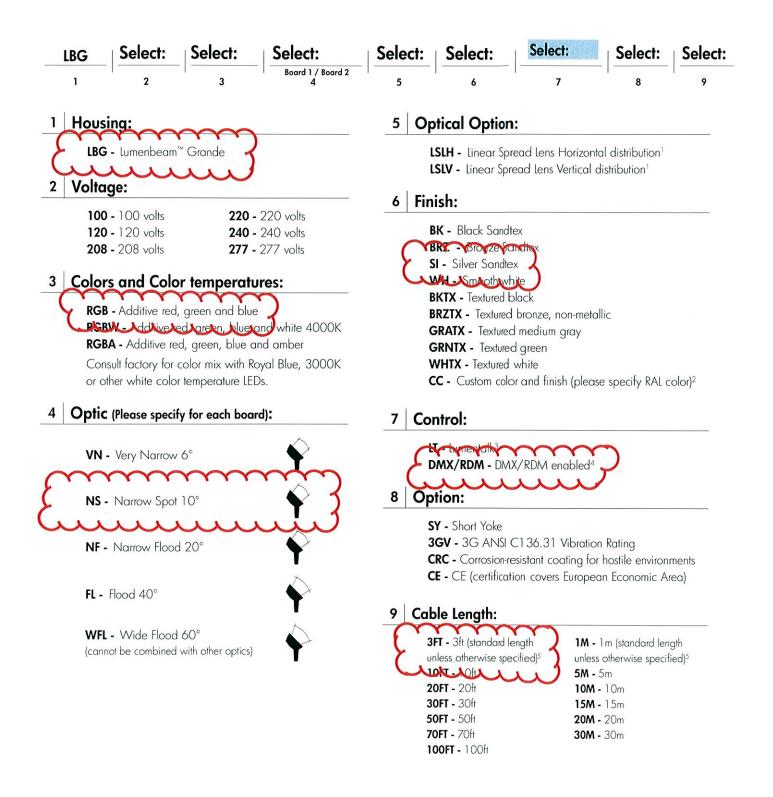
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HOW TO ORDER

COLOR CHANGING



Notes:

¹ Factory installed, available for 6° (VN) to 40° (FL) optics. See Optical Accessories for field adjustable spread lens.² North American RAL colors specified with RAL number only are provided with a smooth/high-gloss finish. Please consult factory for other RAL textures and glosses, or to match alternate color charts. Final color matching results may vary. ³ Lumentalk enabled fixtures must be commissioned using LumentalkID software and a LID-LT. Consult factory for details. 4 Fixtures set to by fixture resolution (consult the Resolution Details page for the number of DMX addresses).

⁵ Maximum 3ft [1 m] fixture cable length recommended for daisy chain DMX applications with CBX-DS.

9/9

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