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Planning Commission Staff Report

Project Type:Amended Architectural Elevations

Meeting Date: October 23, 2017

From: Cecilia Dvorak, Project Planner

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

Description: Logan College of Chiropractic AAE (2017): Architectural Elevations for a 112 acre tract of land zoned "NU" Non-Urban District located west of Schoettler Rd, and south of Green Valley Drive (20R430046).

The request is for the addition of 12 color-changing LED lights on a Bell Tower Structure within the Logan College of Chiropractic development.

The applicant has submitted a statement of design explaining the request which is attached as a part of the submittal packet. There are no other changes proposed in this application.



Figure 1: Aerial & Surrounding areas

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.

LAND USE AND ZONING OF SURROUNDING PROPERTIES

Direction	Zoning	Land Use
North	"R2" Residence District	Baxter Lakes Addition 2 Subdivision
East	"R1A" Residence District	Chesterfield Trails Subdivision
South	"NU" Non-Urban District; and	No Subdivision ward 4; and
	"R1A" Residence District	Brook Hill Estates Subdivision
West	"R2" Residence District	Claymont Manor Subdivision

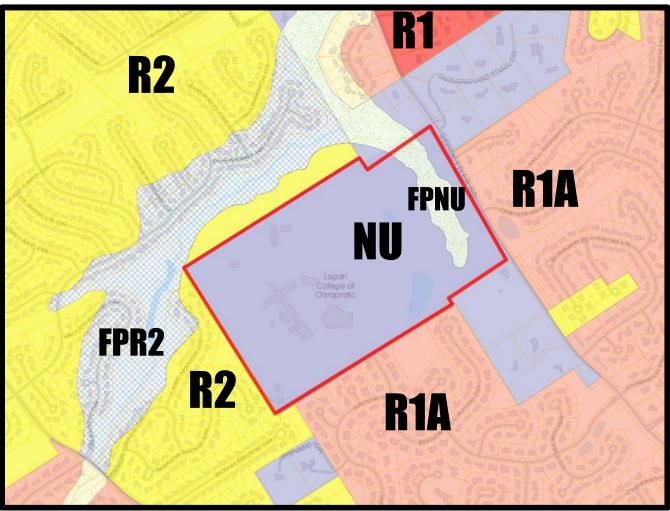


Figure 2: Zoning map

COMPREHENSIVE PLAN ANALYSIS

The City of Chesterfield Comprehensive Land Use Map delineates the subject site within the "College" land use designation.



Figure 3: Future Land Use Plan

STAFF ANALYSIS

The following analysis discusses the Unified Development Code requirements and the Architectural Review Board discussion for the Planning Commission's consideration, along with staff's input provided in italics.

Unified Development Code (UDC):

The Unified Development Code requires that all lighting be fully shielded, cut off optics; however, there is a provision in the UDC (Sec. 31-04-03L.2) which allows the Planning Commission to approve decorative lighting fixtures when it can be proven that there will be no off-site glare light trespass, and the proposed fixtures will improve the appearance of the site.

The initial application requested up-lighting the tower from the bottom and middle of the structure; however, because the applicant could not provide a rendering ensuring no glare would be provided into the sky, the applicant changed the request to down-lighting. As seen in the photometric rendering of the tower provided, the lights would be pointed downward to ensure no off-site glare, and would be shielded by the tower itself.

The UDC also requires that the exterior building lighting be architecturally integrated with the building style, material, and color, specifying that the color of exterior lamps should be consistent with that on surrounding buildings.

The proposed lighting is integrated with the architectural elements of the building by hiding the lights within the structure of the tower and illuminating downward. Additionally, as discussed in the applicants' statement of design, the lights would typically be lit with a white light from dusk-to-dawn unless a special event called for lighted color, such as pink during Breast Cancer Awareness Month or red for the St. Louis Cardinals, etc. The applicant is therefore requesting that the full color spectrum be permitted for the proposed lighting application, however, only 1 color would be permitted per 24 hour period, as specified in the conditions recommended by the ARB.

As illustrated in figure 4 below, the tower is no closer than 725 feet from adjacent residential properties, and is surrounded by buildings. Due to photometric submitted and distance between the requested lighting and the nearest adjacent property, staff believes the proposal will not have negative impacts on adjacent properties. This, in addition to the evidence that no off-site glare would be provided, ensures that staff has no concerns with this request.

The image below provides the height of the existing bell tower as well as surrounding structures, and the distances to the adjacent properties.



Figure 4: Structure heights and distance of the tower to the property line

Architectural Review Board (ARB):

The project was reviewed by the Architectural Review Board (ARB) on October 11th, 2017. The Board discussed how the lights would reveal and show the lattice work of the bell tower, and the need to ensure the lights are blended with the structure. The Board recognized the site's location among residential developments; however, understanding that the average distance of 800 feet from the nearest property line ensures it will not disturb those residents. A motion to forward the submittal to the Planning Commission with a recommendation for approval with two conditions was passed by a vote of 4-0. The conditions were as follows:

- 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.

As stated in the narrative attached, the applicant is amenable to the conditions as recommended by the ARB. Should the Planning Commission approve the request, staff would conduct a site visit once the lights are installed to ensure compliance.

STAFF RECOMMENDATION

Staff has reviewed the Amended Architectural Elevations for Logan College of Chiropractic and has found the proposal to be in compliance with all City Code requirements. Staff recommends approval of the Amended Architectural Elevations for Logan College of Chiropractic.

MOTION

The following options are provided to the Planning Commission for consideration relative to this application:

- 1) "I move to approve (or deny) the Amended Architectural Elevations for Logan College of Chiropractic."
- 2) "I move to approve the Amended Architectural Elevations for Logan College of Chiropractic, with the following conditions..." (Conditions may be added, eliminated, altered or modified)

Attachments

1. Architectural Review Packet Submittal

LOGAN UNIVERSITY

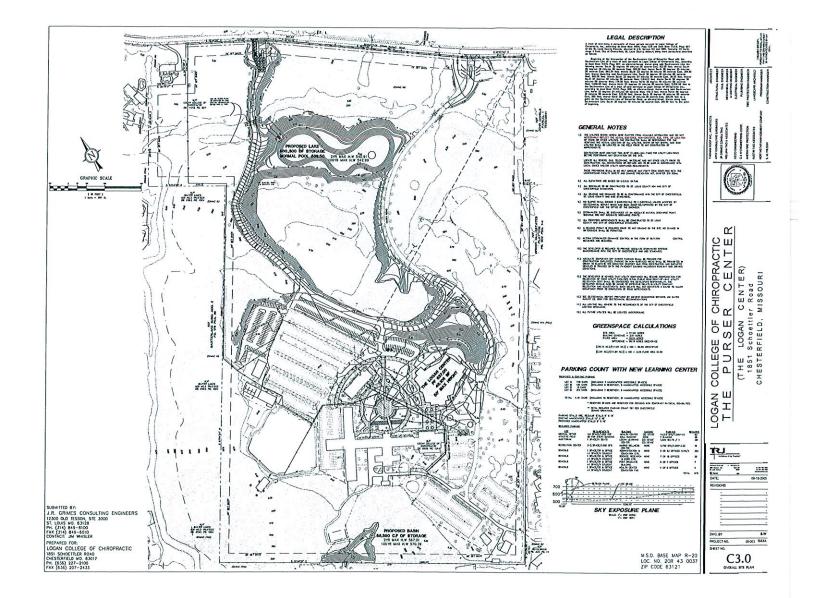
Tower lights

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 second phase of the restoration project. Upper lights are being installed during the current phase of the tower restoration.

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, blues for the St. Louis Blues or red for the St. Louis Cardinals 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.

It is agreed that 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.

COLLEGE OF CHIROPRACTIC | COLLEGE OF HEALTH SCIENCES

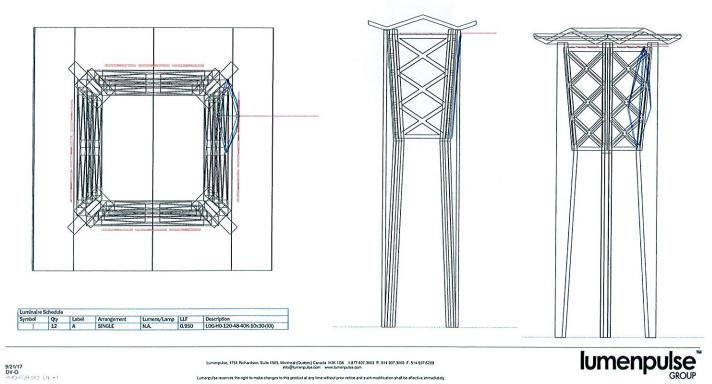


PHOTOMETRIC CALCULATION _

Client : _

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



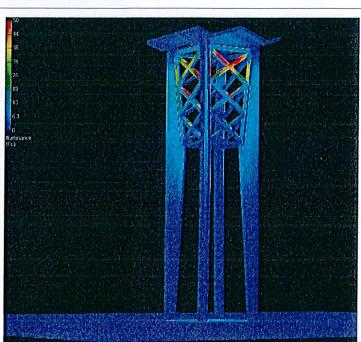
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PHOTOMETRIC CALCULATION

Client : _

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

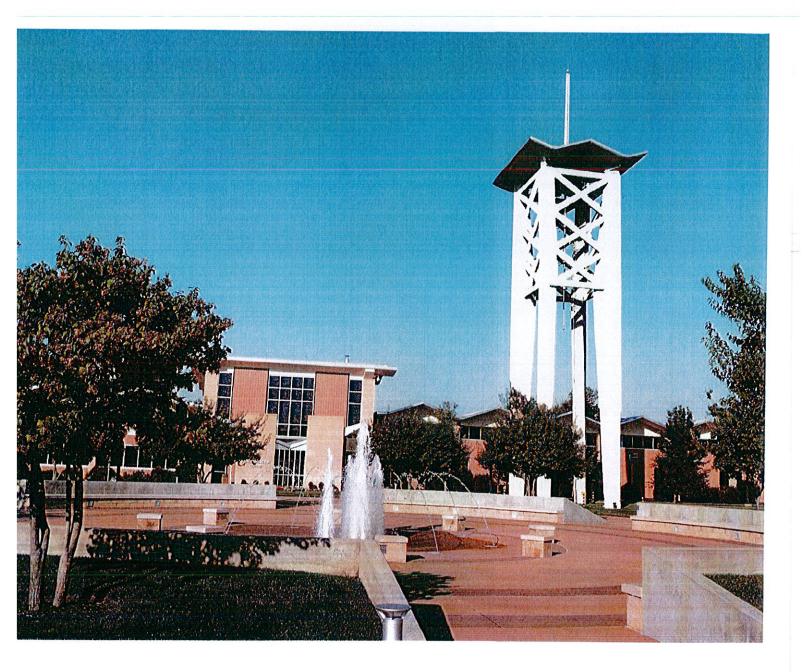




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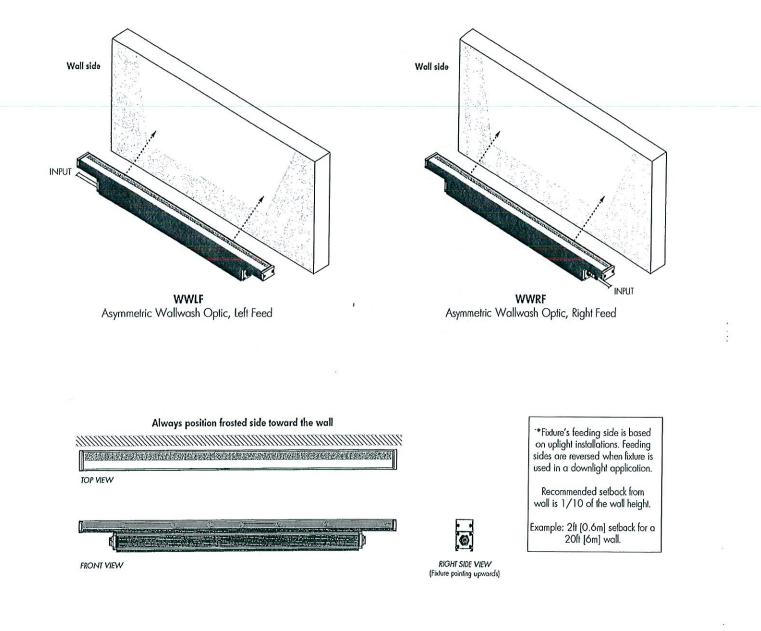
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WHITE & STATIC COLORS

Client			Project name		
Order#	T	/pe	Qty		
FEATURES A	ND BENEFITS				
 Electro-stati Machined Stainless ste Clear temp Asymmetric 15° x 25°, or 90° x 90 IP66 		wder coat finish licone gaskets : 10°, 10° x 30°, 10° 5° x 35°, 50° x 80°, (x 60°, 10° x 90°, 50° x 60°, 80° x 80°,	c tus	
 Meets 3G . 	(asymmetric wallwash lens ANSI C136.31 Vibration esistant coating for hostile	standard for bridge app	blications		en cells EcoSystem. Enabled
Performan • 2200K, 27 • CRI value: 8	00K, 3000K, 3500K, 40	100K, Red, Green, Blue	static colors available		Delivered Intensity Output [Im] [peak cd]
 Minimum 1 Lumen main Lumen meas Resolution p 		0 @ 25°C] - 79 - 08 standard gured with LumenID V3	K, 4' unit, 10° x 60° optic) software & DMX/RDM)	WW 8°x8° 10°x10° 10°x30°	3,592 5,159 4,045 77,896 3,768* 38,346* 3,830 30,056
Electrical : Line voltage Power and End-to-end 252ft [77m	luminaire for 100 to 277 data in 1 cable (#16-5) option (ETE): 16" black ing 1 maximum cable and fixtu	V put cable, no jumper ca pre run length, non-dimm	ning, 277V, RO version	10°x60° 10°x90° 30°x30° 30°x60° 60°x60°	3,692 19,654 3,576 7,897 3,765 14,726 3,862* 5,119* 3,447* 3,015*
 164ft [50m 5W/ft versi 8.5W/ft Re 15.25W/ft) maximum cable and fixtu ion meets ASHRAE standa egular Output version ³ Hiah Output version ³	ure run length, non-dimn rds for linear lighting or	ning, 277V, HO version	compli * Estimoted.	3,592 1,886 performance is measured in ance with IESNA UM.79-08. Cansult lumenpulse website or the latest IES and LDT files.
	[340mm]	- ¹ / ₄ " Minimum [7mm] spacing	25 ³ / ₈ ", 37 ³ / ₈ ", 49 ³ / ₈ " [645mm, 949mm , 1254mm]		- 2 <u>5</u> " [59mm]
() Input coble Input coble I	lixture, ETE option shown	2 <i>t</i> , 3 <i>t</i> and 4 <i>t</i> fixtu 4 ⁿ (102mm)	res, ETE option shown	[8]]]]] [8	312" 9mm] SIDE VIEW
² Use only when	lwash lens is 1K06 rated. exposed to salt spray and ha	ush chemicals. This option	is not required for normal outdoor n is typically 20% higher for 1' fixtu	exposure l rre lengths.	
1/13 2017.03.30 GS · R64	© Copyright Lumenpulse 2017 1751 Richardson, Suite 1505 Montreal (Quebec) Canada H3K 1G6	1,877,937,3003 P.514,937,3003 F. 514,937,6289 info@lumenpulse.com www.lumenpulsegroup.com	5-year limited warranty. Consult www.lumenpulsegroup.com for our complete Standard Terms and Conditions of Sales.	lumenpulse reserves the right to make without prior notice and such modifica	

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ASYMMETRIC WALLWASH OPTIC FEEDING SIDE DETAIL



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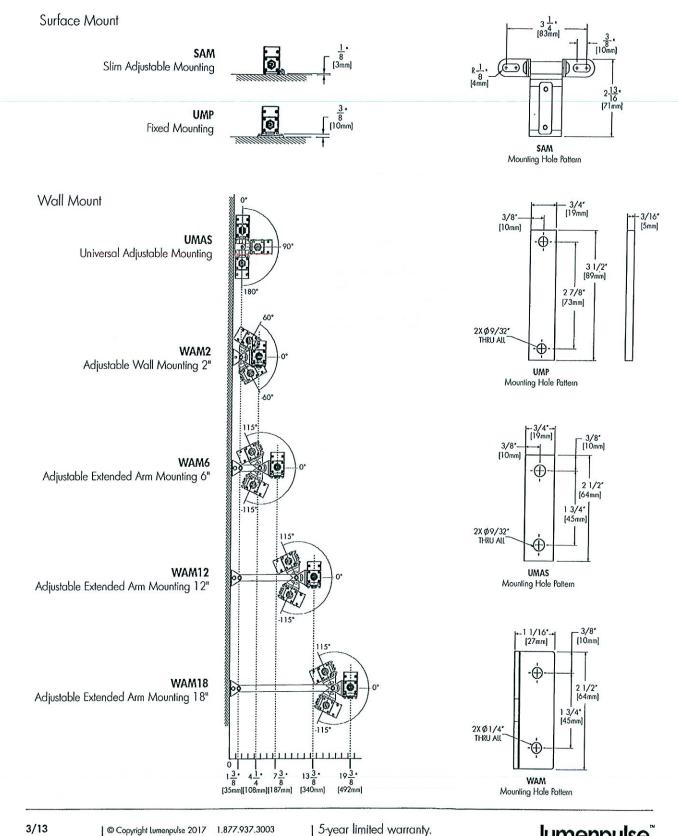
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MOUNTING OPTIONS



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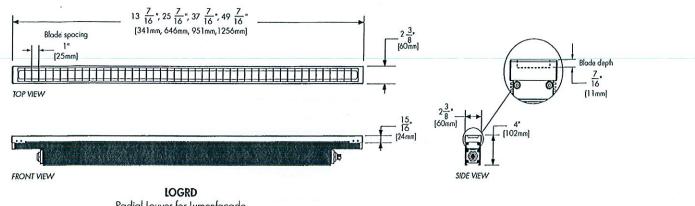
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WHITE & STATIC COLORS

:

LOUVER ACCESSORY INSTALLATION DETAIL

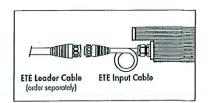
Not suitable for asymmetric wallwash optic



Radial Louver for Lumenfacade (See page 6 for ordering code)

OPTION

ETE - End-to-end configuration, 16" black input cable, no jumper cable needed.



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ACCESSORIES

Order separately

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(ontrol	Systems:
COIIIO	Jysicilis.

- 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 for 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-IT 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.
- LDB Lumentalk Data Bridge, 0-10V or DMX output. Refer to LDB specification sheet for details.

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ACCESSORIES - continued	ł
Order separately	

Leader and Jumpe	ers Cables for Standard Construction :
LOGLCSTD	Leader Cable for Lumenfacade. Please specify certification (UL or CE), cable length (10', 25', 50',100', 150' or 200' [3m, 7.6m,15.2m, 30m, 45m or 61m] standard) and cable color (BK-Black or WH-White, connectors are black as standard). Suitable for dimming/data and non-dimming applications. Sealing endcap is mandatory for any unused connector. (1) included with every leader cable. Consult Lumenfacade leader cable specifiation sheet for details.
logJC\$TD	Jumper Cable for tumenfacade. Please specify certification (UL or CE), cable length (1', 2', 3', 4', 5' or 50' [0.3m, 0.6m, 0.9m, 1.2m, 1.5m or 15m] standard) and cable color (BK-Black or WH-White, connectors are black as standard). Lengths between 5' and 30' [1.5m and 10m] are also available, please specify desired length in 1' [0.3m] increments. Suitable for dimming/data and non-dimming applications. Consult Lumenfacade jumper cable specifiation sheet for details.
Leader and Jumpe	rs Cables for End-to-End (ETE) Option :
LOGLCETE	Leader Cable for Lumenfacade, ETE option. Please specify certification (UL or CE), cable length (10', 25', 50',100', 150' or 200' [3m, 7.6m,15.2m, 30m, 45m or 61m] standard) and cable color (BK-Black or WH-White, connectors and fixture input cables are black as standard). Suitable for dimming/data and non-dimming applications. Sealing endcap is mandatory for any unused connector. (1) included with every leader cable. Consult Lumenfacade leader cable specifiation sheet for details.
LOGJCETE	Jumper Cable for Lumenfacade, ETE option. Please specify certification (J.H. or C.E.), cable length (J.L. 2), 31, 41, 51, or 501 (0, 3m, 0, 6m, 0, 9m, 1, 2m,

LOGLCETE	Leader Cable for lumenfacade, ETE option.
	Please specify certification (UL or CE), cable length (10', 25', 50', 100', 150' or 200' [3m, 7.6m, 15.2m,
	30m, 45m or 61m] standard) and cable color (BKBlack or WH-White, connectors and fixture input cables are black as standard).
	Suitable for dimming/data and non-dimming applications.
	Sealing endcap is mandatory for any unused connector. (1) included with every leader cable. Consult Lumenfacade leader cable specifiation sheet for details.
LOGJCETE	Jumper Cable for Lumenfacade, ETE option.
	Please specify certification (UL or CE), cable length (1', 2', 3', 4', 5' or 50' [0.3m, 0.6m, 0.9m, 1.2m,
	1.5m or 15m) standard) and cable color (BK-Black or WH-White, connectors and fixture input cables are
	black as standard).
	Lengths between 5' and 30' [1.5m and 10m] are also available, please specify desired length in 1'
	[0.3m] increments.
	Suitable for dimming/data and non-dimming applications.
	Consult Lumenfacade jumper cable specifiation sheet for details.

Radial Louver : Not suitable for asymmetric wallwash optic

> LOGRD_-___ Radial louver for Lumenfacade.



Louver blade depth: 7/16" [11mm]; louver blade spacing: 1" [25mm] Please specify nominal length (1', 2', 3' or 4' [0.3m, 0.6m, 0.9m or 1.2m]) and finish (BK-Black Sandtex, BRZ-Bronze Sandtex, SI-Silver Sandtex, or WH-Smooth white. Custom color available on request, please specify as CC together with RAL color : _____).

The addition of a louver will affect beam distribution, consult factory for application support.

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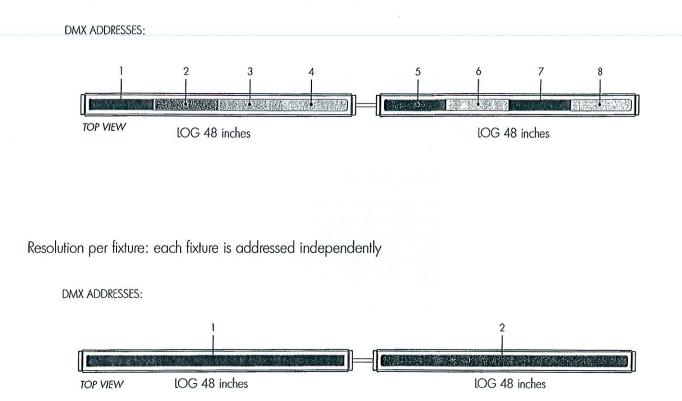
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Iumenfacade™ WHITE & STATIC COLORS

RESOLUTION DETAILS

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

Resolution per foot: each foot is addressed independently



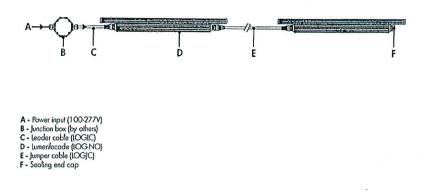


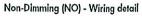
TYPICAL WIRING DIAGRAMS

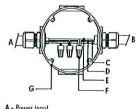
Wiring Color Code

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 -

Non-Dimming (NO)







A - Power input B - To fixture C - Line D - Ground E - Neutral F - Wire nuts (by others) G - Junction box (by others)

Notes: • Consult factory for specific applications and maximum fixture count/cable length recommendations. • ASHRAE version: 5 walts per foot [0.3m], Regular Output version: 8.5 walts per foot [0.3m], High Output version: 15.25 walts per foot [0.3m].

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TYPICAL WIRING DIAGRAMS - continued

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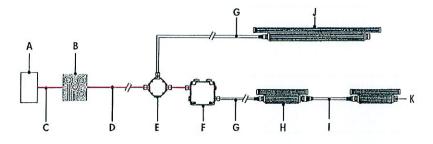
WHITE & STATIC COLORS

Wiring Color Code

American Color Code	CE Color Code	USE
Green	Yellow/Green	Ground
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White	Blue	Neutral
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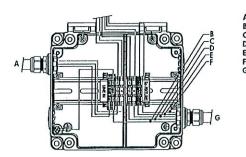
Lumentalk (LT)

1% minimum dimming volu



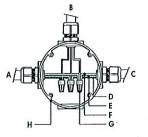
A - Third party dimmer/controller B - lumentranslator (LTL-010,DMX, -TRIAC, -DALI) C - Data wiring (by others) D - Power line (120-277V AC) F - tower line (I/C)27/7 AC)
 F - turentolik Data Bridge (IDB-DIM or IDB-DMX)
 G - teader coble (ICGCIC)
 H - turentolicade 1* [0.3m] (ICG-DIM or IOG-DMX/RDM)
 I- turentolicade 1* [0.3m] (ICG-DIM or IOG-DMX/RDM) J - lumenfocode (IOGLT) (2', 3', or 4' fixture lengths) [0.6, 0.9 or 1.2m] K - Sealing end cop

Wiring detail using LDB-DIM or LDB-DMX (for 1' fixtures [0.3 m])



A - Power input (control over power line via lumentalk system) B - Ground C - Line D - Neufral E - 0-10V + / Data + F - 0-10V - / Data -G - To fixture

Lumentalk (LT) - Wiring detail (for 2, 3 or 4' fixture lengths [0.6, 0.9 or 1.2m]



A - Power input (control over power line via lumentalk system)

- B To fixture C To Lumentalk Data Bridge (for run lengths with 1' fixtures (0.3m))
- D Line
- E Ground
- F Neutrol
- G Wire-nuls (by others) H Junction box (by others)

Notes:

Notes:
Consult lactory for specific applications and maximum fixture count/cable length recommendations.
Umentalk Data Bridge required for 1' (0.3m) fixture lengths.
For applications with all fixtures controlled as 1 zone: fixtures and lumentalk Data Bridge must be specified as DIM. Maximum of 10 fixtures per IDB-DIM, consult factory for applications that require additional copabilities. For applications with stures controlled as 1 zone: fixtures and lumentalk Data Bridge must be specified as DIM. Maximum of 10 fixtures per IDB-DIM, consult factory for applications that require additional copabilities. For applications with stures controlled individually, fixtures and lumentalk Data Bridge must be specified as DIM. Zettep commissioning process: 1 - DMX/RDM system using lumental backware and a UDI. Maximum of 32 fotues per IDB-DMX. Consult factory for details.
For DMX applications: 1 DMX controller per tumentalik network, maximum of 32 fotues per LDB-DMX. Consult factory for applications that require additional copabilities.
Maximum of 1 Inonsmitter (lumentanshor or lumentik) per system
No hird party fixtures allowed on the same circuit.
Consult factory for DAUI lumentalk opplications.
ASHRAE version: 5 walts per foot [0.3m], Regular Output version: 8.5 walts per foot [0.3m], High Output version: 15.25 walts per foot [0.3m].

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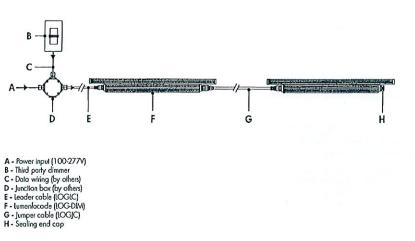
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TYPICAL WIRING DIAGRAMS - continued

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 -

0-10V Dimming (DIM) 10% minimum dimming value

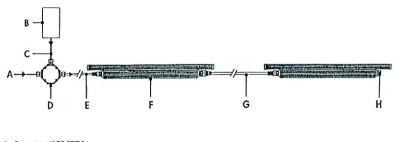


Notes:

Consult lactory for specific applications and maximum fixture count/cable length recommendations.
O-10V mA rolings: passive dimmer (Current Sink): 3mA per fixture, active dimmer (Current Source): 0.5mA per fixture.
ASHRAE version: 5 watts per foot [0.3m], Regular Output version: 8.5 watts per foot [0.3m], High Output version: 15.25 watts per foot [0.3m].

DALI Dimming (DALI)

1% dimming value



A - Power input (100-277V) B - Third party DAll controller C - Data wiring (by others) D - Junction bax (by others) E - Leader cable (LOGIC) F - Lumenlacade (LOGOALI) G - Jumper cable (LOGJC) H - Sealing end cop

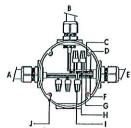
G - Ground H - Neutral I - Wire-nuls (by others)

Notes:

Vorusi,
Consult factory for specific applications and maximum fixture count/cable length recommendations.
Maximum of 64 DAU fixtures per DAU loop.
ASHRAE version: 5 watts per foot [0.3m], Regular Output version: 8.5 watts per foot [0.3m], High Output version: 15.25 watts per foot [0.3m].

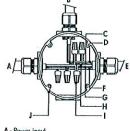
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2017.03.30 GS - R64	1751 Richardson, Suite 1505 Montreal (Quebec) Canada H3K 1G6	F. 514.937.6289 info@lumenpulse.com www.lumenpulsegroup.com	Consult www.lumenpulsegroup.com for our complete Standard Terms and Conditions of Sales.	 GROUP lumenpulse reserves the right to make changes to this product at any time without prior notice and such modification shall be effective Immediately.

0-10V Dimming (DIM) - Wiring detail



A - Power input B - From third party dimmer C - 0-10V + D - 0-10V -E - To fixture F - Line G - Ground H - Neutral I - Wire-nuts (by others) J - Junction box (by others)

DALI Dimming (DALI) - Wiring detail



A - Power input B - From DAU controller C - Data + D - Data -E - To fixture F - Line J - Junction box (by others)

lumenfacade™ WHITE & STATIC COLORS

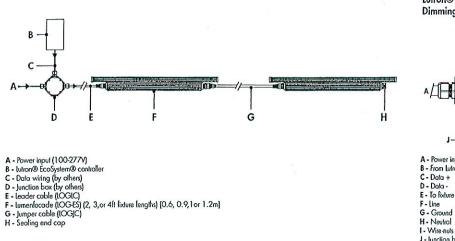
TYPICAL WIRING DIAGRAMS - continued

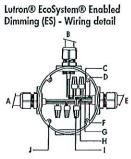
Wiring Color Code

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 -

Lutron® EcoSystem® Enabled Dimming (ES)

1% minimum dimming value





A - Power input B - From Luton® EcoSystem® controller C - Data + D - Data -I - Wire-nuls (by others) J - Junction box (by others)

Notes:

Consult factory for specific applications and maximum fixture count/cable length recommandations.
 Each lution® EcoSystem® anabled fixture has its own address; for the example shown, there are a total of 2 EcoSystem® addresses.
 ASHRAE version: 5 watts per foot [0.3m], Regular Output version: 8.5 watts per foot [0.3m], High Output version: 15.25 watts per foot [0.3m].

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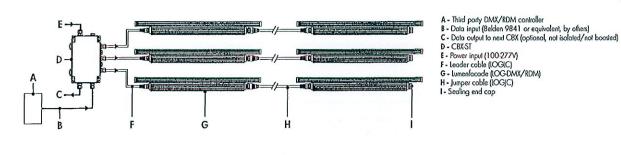
WHITE & STATIC COLORS

TYPICAL WIRING DIAGRAMS - continued

merican	CE	USE	Maximum run length by 15A circuit - Lum	ifacade™ HO 15.2	5W/ft [0.3	
Color Code	Color Code	001	Cable length/Voltage 120V	240V	277V	
			50ft [15m] leader cable 68ft [2]) 76ft [23m]	84lt [26	
Green	Yellow/Green	Ground Live 100-277V Neutral 0-10V / Data +		Maximum run length by 15A circuit - Lun	nfacade™ RO 8.5	W/ft [0.3m]
Black White	Brown Blue		50ft [15m] leader cable 120ft [3	n] 128ft [39m]	128ft [39/	
Red/Purple	Black			Maximum run length by 15A circuit - Luma	facade™ ASHRAE	5W/ft [0.3m
Orange	range Grey 0-10V / Data -	50ft [15m] leader cable 128ft [3	n] 128ft [39m]	128/1 (39		

Star Layout (DMX/RDM)

1% minimum dimming value



Daisy Chain Layout (DMX/RDM) mming volve



Notes:

Notes: • Consult lactory for specific applications and maximum fixture count/cable length recommendations. Moximum run length calculations are typically based on 4' [1.2m] fixtures. • Maximum of 32 DMX/RDM repeaters/CBX coscoding in line. • Maximum of 4 DMX/RDM repeaters/CBX coscoding in line. • Maximum of 6 outputs per CBXS1, maximum of 1output per CBXDS • Each fixture requires 1 DMX address. • ASHRAE version: 5 waits per foot [0.3m], Regular Output version: 8.5 waits per foot [0.3m], High Output version: 15.25 waits per foot [0.3m].

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HOW TO ORDER

lumenfacade™

WHITE & STATIC COLORS

LOG	; Select:	Select:	Select:	Select:	Select:	_ _	Select:	Select:	Select:	Select:
	1	2	3	4	5	1	6	. 7	8	9
1							Bi-sym	metric		
	Housing:							- 10° x 30°		5 - 15° x 25°
ĩ	LOG ASHRA	ımenfacade™ R	de™, 5W/ft AS Regular Output, 8 High Output, 15.	3.5W/ft	ı	6		- 10° x 60° - 10° x 90°) - 30° x 60°) - 50° x 80°
2								ng Option:		
3	Voltage: 100 - 100 v 120 - 120 v 208 - 208 v	volts	240 - 2	220 volts 240 volts 277 volts			UMP - UMAS WAM2 WAM6 WAM1	2 - Adjustable Ext	able Mounting ⁴	ing 12"
	Length:					7				
4	12 - 13 3/8 inches (340mm) (2 kg/4.5 lbs) 24 - 25 3/8 inches (645mm) (3.17 kg/7 lbs) 36 - 37 3/8 inches (949mm) (4.75 kg/10.5 lbs) 48 - 49 3/8 inches (1254mm) (6.35 kg/14 lbs)					BRZ - B SI - Silv WH - S	ack Sandtex ronze Sandtex er Sandtex mooth white			
	Colors and	Color tem	peratures:				CC - Cu	istom color and fir	nish (please specify	r RAL color)⁵
	22K - 2200k 27K - 2700k 30K - 3000k 35K - 3500k Consult factor	< < < ry for availabili	40K - 4 RD - Re GR - G BL - Blu ity of static Royal	ed reen re	,	8	LT - Lum	o Dimming entalk Dimming -10V Dimming op	No.7	
5	and 90+ CRI						DALI - [ES - Lutr	All Dimming option	on [®] nabled Dimming [®]	
	Optics:					0			onabioa	
	Asymmetric WWLF - Asym		vash optic, left feo vash optic, right f		-	9	Option:	d - to - end config	uration, 16" black	input coble
	Symmetric 8x8 - 8° x 8 10x10 - 10° 30x30 - 30° 35x35 - 35°	° x 10°³ ° x 30°	80x80	- 60° x 60° - 80° x 80° - 90° x 90°			no jump CRC - C 3GV - 3	er cable needed orrosion-resistant c G ANSI C136.3	coating for hostile e 1 Vibration Rating ¹ rrs European Econo	environments 1
י ל facto con: leng	Dites: Not available for 1' [ory for application su sult factory for other R 11s, see Typical Wirir	0.3m] fixture lengt pport. 4 Suitable RAL textures and gl ng Diagrams page	to use when 3GV o losses, or to match a s for details. 1% min	ption is specified. ^s Iternate color charts. imum dimming value	North America Final color matcl e. 7 10% minim	n RAL hing re ium dir	colors specified sulls may vary. nming value. Cu	with RAL number only lumentalk system is	are provided with a sn enobled with LDB accu e, Current Source: 0.5r	elback from surface. Contac wooth/high-gloss finish. Pleas essory for 1' [0.3m] fixture nA/fixture. • 1% minimum

In a minimum dimming value.
 I a minimum dimming value.

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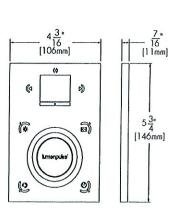
lumentouch 2.0[™]

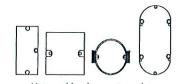
Cli	ient	Project name			
01	/der#Type	_Qiy			
FE	ATURES AND BENEFITS				
	51				

- Unlimited memory via Micro SDCARD ٠
- Integrated clock/calendar .
- RS 232 serial and I/O ports
- Universal infrared receiver •
- Standard with ETHERNET card .

PACKAGE CONTENT

- Lumentouch hardware (stand alone wall mounted DMX controller)
- Mini-USB cable
- Micro SDCARD and adapter
- UL listed 6-7V DC power supply (100-240V AC input voltage) • with connector block for DMX connection
- Compatible with Windows (XP, VISTA and 7, 32-bit or 64-bit)
- PDF User manual available for download on the lumenpulse website •
- Troubleshooting Tips document available for download on the lumenpulse website •
- Lumenstudio programming software available for download on the Lumenpulse website . (Hardware manager is part of the lumenstudio Software download)





Universal back mounting plate Hole pattern to fit most standard junction boxes *Extended back boxes are recommended for all installations.

HOW TO ORDER LTO₂ Housing 1 * Please remove protective film before use to ensure proper operation of the controller. 1.877.937.3003 © Copyright Lumenpulse 2017

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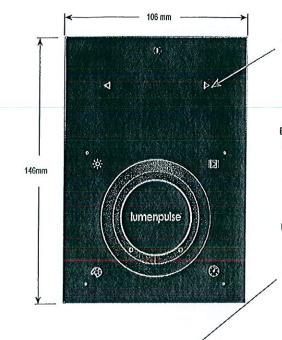
lumenpulse

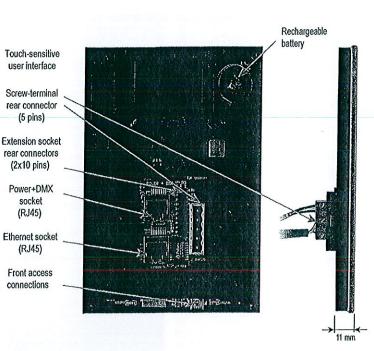
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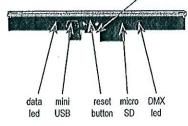
lumentouch 2.0[™]

CONNECTIONS

0







Input Power	6-7V DC 0.6A
Output Protocol	DMX512 (x2)
Programmability	PC, Mac, Tablet, Smartphone
Available colors	Black
Connections	USB, Ethernet, RS232, Clock, 8 dry contact ports, 5v Output Relay
Memory	microSD (32Gb Max)
Temperature	-10°C to 45°C
Mounting	Single or double gang wall socket
Dimensions	146 x 106 x 11mm
Welght	247g
Standards	EC, EMC, ROHS, ETL

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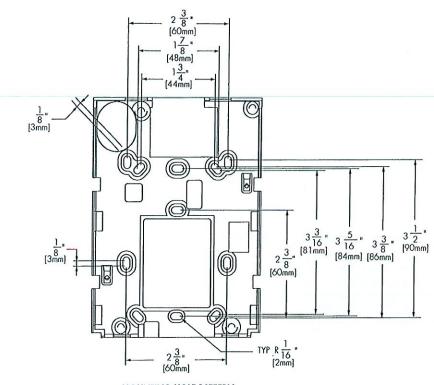
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MOUNTING PATTERN

\$



MOUNTING HOLE PATTERN *Extended electrical back boxes are recommended for all installations

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