Mess, Camie

From: Sent: To: Cc: Subject: Mess, Camie Thursday, April 18, 2019 10:52 AM eh@mitchellmatthews.com Werner, Jeffrey B April BAR Action - 608 Preston Place

April 18, 2019

Certificate of Appropriateness BAR 14-04-07 608 Preston Place Tax Parcel 050108000 Psi Chapter of Sigma Chi Fraternity House Corp, Owner/John Matthews, Applicant Sigma Chi Renovations and Addition: Lighting

Dear Applicant,

The above referenced project was discussed before a meeting of the City of Charlottesville Board of Architectural Review (BAR) on April 16, 2019. The following action was taken:

Motion: Schwarz moved having considered the standards set forth within the City Code, including City Design Guidelines for Site Design and Elements, I move to find that the proposed lighting plan satisfies the BAR's criteria and is compatible with this property and other properties in the Rugby Road-University Circle-Venable Neighborhood ADC District, and that the BAR approves the application as submitted, with the specification for the hanging pendent as described during the meeting (Type A LED blub.) Balut seconded. Approved (7-0).

If you would like to hear the specifics of the discussion, the meeting video is on-line at: <u>http://charlottesville.granicus.com/MediaPlayer.php?view_id=2&clip_id=1360</u>

This certificate of appropriateness shall expire in 18 months (October 16, 2020), unless within that time period you have either been issued a building permit for construction of the improvements if one is required, or if no building permit is required, commenced the project. You may request an extension of the certificate of appropriateness before this approval expires for one additional year for reasonable cause. (See City Code Section 34-280. Validity of certificates of appropriateness.)

If you have any questions, please contact me at 434-970-3998 or messc@charlottesville.org.

Sincerely, Camie Mess

Camie Mess Assistant Historic Preservation and Design Planner City of Charlottesville Phone: 434.970.3398 Email: messc@charlottesville.org

CITY OF CHARLOTTESVILLE BOARD OF ARCHITECTURAL REVIEW STAFF REPORT April 16, 2019

Certificate of Appropriateness BAR 14-04-07 608 Preston Place Tax Parcel 050108000 Psi Chapter of Sigma Chi Fraternity House Corp, Owner/John Matthews, Applicant Sigma Chi Renovations and Addition



Background

Constructed in 1929, 608 Preston Place is a contributing structure in the Rugby Road-University Circle-Venable Neighborhood ADC District.

The property is zoned R-3 Residential. The maximum height permitted is 45 feet, with additional height allowed by SUP; maximum density is 21 units/acre, or up to 87 DUA by special use permit. There is a 25 foot minimum rear setback. Parking required for a fraternity is 2.5 spaces per 3 bedrooms.

Prior BAR Actions (See appendix)

Application

Applicant submittal:

• Mitchell/Matthews submittal dated March 26, 2019: revised lighting plan (page 2-3), cut sheets (page 4-9), elevations and scone placement (10-12), large sheet lighting plan (2 sheets)

Request for exterior lighting, cut sheets included.

Discussion and Recommendations

Staff recommends all exterior lighting, including the LED lighting mounted lights should have warm color temperature less than 3000K. Any exterior lamp that emits 3000 or more lumens shall be a full cutoff luminaire.

Suggested Motions

Having considered the standards set forth within the City Code, including City Design Guidelines for Site Design and Elements, I move to find that the proposed lighting plan satisfies the BAR's criteria and is compatible with this property and other properties in the Rugby Road-University Circle-Venable Neighborhood ADC District, and that the BAR approves the application as submitted (or with the following modifications...).

... as submitted and with the following modifications/conditions:...

Denial:

Having considered the standards set forth within the City Code, including City Design Guidelines for Site Design and Elements, I move to find that the proposed lighting plan does not satisfy or the BAR's criteria and

guidelines and is not_compatible with this property and other properties in the Rugby Road-University Circle-Venable Neighborhood ADC District, and for the following reasons the BAR denies the application as submitted:...

Criteria, Standards, and Guidelines

Review Criteria Generally

Sec. 34-284(b) of the City Code states that,

In considering a particular application the BAR shall approve the application unless it finds:

- (1) That the proposal does not meet specific standards set forth within this division or applicable provisions of the Design Guidelines established by the board pursuant to Sec.34-288(6); and
- (2) The proposal is incompatible with the historic, cultural or architectural character of the district in which the property is located or the protected property that is the subject of the application.

Pertinent Standards for Review of Construction and Alterations include:

- Whether the material, texture, color, height, scale, mass and placement of the proposed addition, modification or construction are visually and architecturally compatible with the site and the applicable design control district;
- 2) The harmony of the proposed change in terms of overall proportion and the size and placement of entrances, windows, awnings, exterior stairs and signs;
- 3) The Secretary of the Interior Standards for Rehabilitation set forth within the Code of
- 4) Federal Regulations (36 C.F.R. §67.7(b)), as may be relevant;
- 5) The effect of the proposed change on the historic district neighborhood;
- 6) The impact of the proposed change on other protected features on the property, such as gardens, landscaping, fences, walls and walks;
- 7) Whether the proposed method of construction, renovation or restoration could have an adverse impact on the structure or site, or adjacent buildings or structures;
- 8) Any applicable provisions of the City's Design Guidelines.

Pertinent Guidelines for Site Design and Elements

D. LIGHTING

Charlottesville's residential areas have few examples of private site lighting. Most houses, including those used for commercial purposes, have attractive, often historically styled fixtures located on the house at various entry points. In the commercial areas, there is a wide variety of site lighting including large utilitarian lighting, floodlights and lights mounted on buildings. Charlottesville has a "Dark Sky" ordinance that requires full cutoff for lamps that emit 3,000 or more lumens. Within an ADC District, the BAR can impose limitations on lighting levels relative to the surrounding context.

- 1) In residential areas, use fixtures that are understated and compatible with the residential quality of the surrounding area and the building while providing subdued illumination.
- 2) Choose light levels that provide for adequate safety yet do not overly emphasize the site or building. Often, existing porch lights are sufficient.
- 3) In commercial areas, avoid lights that create a glare. High intensity commercial lighting fixtures must provide full cutoff.
- 4) Do not use numerous "crime" lights or bright floodlights to illuminate a building or site when surrounding lighting is subdued.
- 5) In the downtown and along West Main Street, consider special lighting of key landmarks and facades to provide a focal point in evening hours.
- 6) Encourage merchants to leave their display window lights on in the evening to provide extra illumination at the sidewalk level.
- 7) Consider motion-activated lighting for security.

Appendix: Prior BAR Actions

<u>June 21, 2011</u> - 608 Preston Place - Preliminary discussion. BAR accepted (6-0) the applicant's request for deferral regarding the BAR's recommendation on the Special Use Permit.

January 17, 2012 – BAR accepted (9-0) the applicant's request for deferral.

BAR issues focused on the effect on the character of the historic district, the effect on the building independent of surroundings, and the architectural detailing.

- the program is too intensive for the site (double the square footage);
- enormous increase in impervious area;
- need to use landscaping to screen activities;
- the house corporation should join the conversations that the architect has been having with the neighborhood, (the real issues are programmatic and managerial need agreement how special events and parking could be handled);
- the addition does not meet the guidelines in terms of extent of demolition, size in relation to house, effect of building and activities pushed to the property lines;
- project is overwhelming and out of scale to house and neighborhood.

<u>March 18, 2014</u>: BAR approved (5-0) the renovations and addition as submitted, with bollards added to protect hedges, and option to use a metal roof over the additions.

March 13, 2019: BAR approved (5-1, with Miller opposed)

- Addition of a fence to be 6 foot metal back to the front plane of the house (on the north border), then 8 feet pressure treated from that point to the back of the property. This was considered because of the security concern, support from the neighborhood, and it was a fraternity house located next to a residential house.
- Replace the Japanese maple in the north corner with a medium/large size tree from the city's tree list or a larger, green species of Japanese maple
- Defer the spot lights, to come back for approval The drawing we are approving are dated December 18, 2018 and the amended drawings dated March 4, 2019.



PSI CHAPTER OF SIGMA CHI

RENOVATIONS & ADDITION

608 PRESTON PLACE CHARLOTTESVILLE, VIRGINIA

> REVISED LIGHTING MARCH 26TH, 2019



2	Schedule											
I	Symbol	Label	Quantity	Manufacturer	Catalog Number	Description	Lamp	Number Lamps	Filename	Lumens Per Lamp	Light Loss Factor	Wattage
	0	С	1	Winona Lighting	WFP5520 16DIA SCHOOL 2/32TRT 120 IMB OG AB	2/32W SYL TRIPLE CF 16"DIA SCHOOLHOUSE PENDANT LUMINAIRE WHITE SCHOOLHOUSE GLASS GLOBE UNIVERSAL BALLAST #C242UNVSE WATTS=84	2/32W SYL TRIPLE CF	2	WFP5520_16DIA_ SCHOOL_2_42TRT _120_IMB_OG_AB .ies	3000	0.9	84
		Н	3	Lithonia Lighting	WST LED P1 30K VW MVOLT	WST LED, Performance package 1, 3000 K, visual comfort wide, MVOLT	LED	1	WST_LED_P1_30K _VW_MVOLT.ies	1548	0.9	12

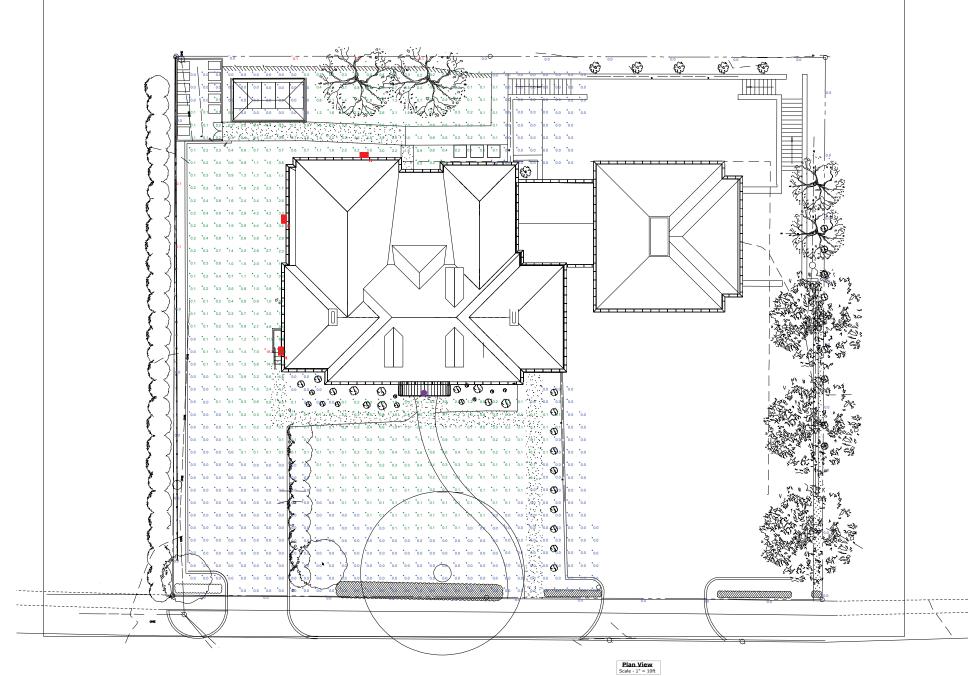
Luminaire Locations						
No.	Label	мн	Orientation	Tilt		
1	С	8.00	0.00	0.00		
1	н	6.00	270.00	0.00		
2	н	12.60	270.00	0.00		
3	н	12.60	0.00	0.00		

Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Property Line	+	0.0 fc	0.1 fc	0.0 fc	N/A	N/A
Sigma Chi Lighting on Existing House	\$	0.5 fc	18.2 fc	0.0 fc	N/A	N/A



View #1





View #2

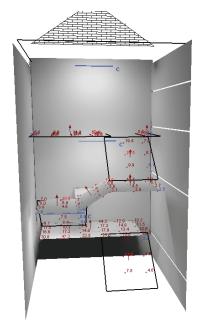
REVISED LIGHTING PLAN

PSI CHAPTER OF SIGMA CHI Charlottesville, virginia March 26, 2019

Schedule											
Symbol	Label	Quantity	Manufactur er	Catalog Number	Description	Lamp	Number Lamps	Filename	Lumens Per Lamp	Light Loss Factor	Wattage
	A	0	FSC MIRUS LIGHTING	Motus 4- 26WT D-OS- EMR IR-DL	MOTUS		1	MOTUS-4- 26WT-8-40K- -D-	3258	0.9	
		0		A" &	"B" NO	DT US	SED		4107	0.9	34.54
	В				Curved Linear Prismatic lens with trim rings, 3000K CCT, 80CRI			130.			
	С	3	Lithonia Lighting	WL4 40L LP830	WL4 4ft 4000 NOMINAL LUMENS 3000K	LED	1	WL4_40L_LP 830.ies	3927	0.9	39.48

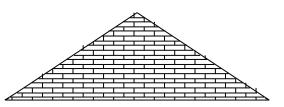
Statistics

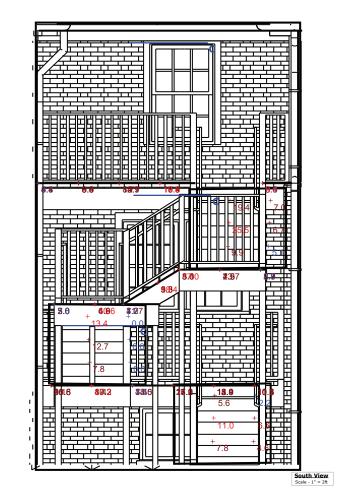
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Calc Zone #2	+	7.9 fc	18.4 fc	3.0 fc	6.1:1	2.6:1
Calc Zone #3	+	5.8 fc	10.6 fc	2.6 fc	4.1:1	2.2:1
Calc Zone #4	+	6.3 fc	11.0 fc	2.2 fc	5.0:1	2.9:1
Calc Zone #5	+	16.0 fc	47.3 fc	4.5 fc	10.5:1	3.6:1
Calc Zone #6	+	12.3 fc	25.5 fc	5.1 fc	5.0:1	2.4:1
Calc Zone #7	+	8.0 fc	9.4 fc	5.8 fc	1.6:1	1.4:1
Calc Zone #8	+	10.4 fc	19.6 fc	3.7 fc	5.3:1	2.8:1
Calc Zone #10	+	5.6 fc	13.4 fc	0.0 fc	N/A	N/A
steps landing	+	6.9 fc	17.0 fc	2.5 fc	6.8:1	2.8:1

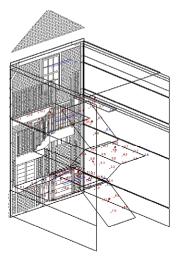


REVISED LIGHTING

PSI CHAPTER OF SIGMA CHI Charlottesville, virginia March 26, 2019







View #5

LITHONIA LIGHTING

Catalog Number

FEATURES & SPECIFICATIONS

INTENDED USE — For wall or ceiling mounting, vertical or horizontal. The WL combines digital LED lighting and controls technologies with high-performance optical design to offer the most advanced wall-mount luminaire for general ambient lighting applications. High-efficacy light engine delivers long life and excellent color, ensuring a superior quality lighting installation that is highly efficient and sustainable.

CONSTRUCTION — Housing is roll formed from code-gauge steel.

Refractor is retained in die cast ends providing secure installation and easy maintenance.

Decorative die-cast end caps provide added durability.

Finish: All metal parts are post-painted in white polyester powder coat for smooth, finished edges and uniform light distribution

OPTICS — Impact modified linear faceted refractor. Optically engineered for superior light distribution and maximum efficacy.

Crescent-shape linear faceted refractor system obscures and integrates individual LED images and uniformly washes fixture surface with light.

ELECTRICAL — Long-life LEDs, coupled with high-efficiency drivers, provide superior quantity and quality of illumination for extended service life. 90% LED lumen maintenance at 60,000 hours (L90/60,000). The LEDs have a CRI of 82.

eldoLED driver options deliver choice of dimming range and choice for control, while assuring flicker-free, low-current inrush, 89% efficiency and low EMI.

Driver disconnect provided where required to comply with US and Canadian codes.

Optional nLight® embedded controls continuously monitor system performance and allow for constant lumen management function.

Lumen Management: Unique lumen management system (option N80) provides onboard intelligence that actively manages the LED light source so that constant lumen output is maintained over the system life, preventing energy waste created by the traditional practice of over-lighting.

SENSOR — Integrated sensor (individual control): Sensor Switch MSD7 (Passive Infrared (PIR)) integrated occupancy sensor photocell allows the luminaire to power off when the space is unoccupied. See page 4 for more details on the integrated sensor.

Integrated Sensor (nLight Wired Networking): The sensor is nLight-enabled, meaning it has the ability to communicate over an nLight network. When wired using CAT-5 cabling with other nLight-enabled sensors, power packs, or WallPods, an nLight control zone is created. Once linked to a Gateway, directly or via a Bridge, the zone becomes capable of remote status monitoring and control via SensorView software. See page 4 for the nLight sensor options.

Interated Smart Sensor (nLight AIR Wireless Platform): The RES7 sensor is nLight AIR enabled, meaning it has the ability to communicate over the wireless nLight control platform. It is available with an automatic dimming photocell, and either a digital PIR or a dual technology occupancy sensor. It pairs to other luminaires and wall switches through our mobile app, CLAIRITY, which allows for simple sensor adjustment. See page 4 for more details on the Integrated Smart Sensor.

sensor option).

Patents pending. DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at <u>www.designlights.org/QPL</u> to confirm which versions are gualified.

WARRANTY - 5-year limited warranty. Complete warranty terms located at:

www.acuitybrands.com/CustomerResources/Terms and conditions.aspx NOTE: Actual performance may differ as a result of end-user environment and application.

All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.



Second Second Provide An Alexandre

This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and out-of-the-box control compatibility with simple commissioning.

- All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency
- This luminaire is part of an A+ Certified solution for nLight[®] or XPoint[™] Wireless control networks when ordered with drivers marked by a shaded background*

WI 4-1 FD

To learn more about A+, visit www.acuitybrands.com/aplus.

*See ordering tree for details

LED

CUT SHEETS

PSI CHAPTER OF SIGMA CHI CHARLOTTESVILLE, VIRGINIA MARCH 26. 2019

WL4 Wall Bracket & Surface Mount LED

A+ Capable options indicated by this color background.

WL4						
Series	Lumens ¹	Voltage	Driver	Color temperature	nLight Interface	
WL4 y wall-mount LED	20L 2000 Jumens 30L 3000 Jumens 40L 4000 Jumens	(blank) MVOLT 347 347V	EZ1 eldoLED dims to 1%, 0-10V EZB eldoLED dims to dark, 0-10V GZ1 Dims to 1% (0-10V dimming) ² GZ10 Dims to 10% (0-10V dimming) ²	(LP830) 3000 K LP835 3500 K LP840 4000 K LP850 5000 K	nLight Wired (blank) No nLight® interface N80 nLight® with 80% In M80EMG nLight® with 80% In management nu N80EMG nLight® with 80% In management. For ugenerator supply EN N100 nLight® without lum management N100EMG N100EMG nLight® without lum management. For ugenerator supply EN nLight Wireless No nLight® interface NLTAIR2 nLight® interface	imen imen se power ² ten hen se with f power ³
Control 4			Standby mode ⁸	Options		Finish ¹¹

A LITHONIA LIGHTING

LED: One Lithonia Way Convers, GA 30012 Phone: 800-858-7763 Fax: 770-929-8789 www.lithonia.com

- Approximate lumen output.
- 2 GZ1, GZ10 not available with any Controls or sensor options. 3 nLight EMG option requires a connection to existing nLight network. Power is
- provided from a separate N80 or N100 enabled fixture 4 Must order with RES7, RES7PDT, or module. Only available with EZ1 driver.
- 5 See sensor options on page 4.
- 6 Requires N80, N100, N80EMG, or N100EMG. Cannot be ordered with EZB and EL7L or EL14L together. 7 Not available with nLight options or EZB. 8 Requires Occupancy Control.
- 9 Only available with RES7 or RES7PDT. Occupancy sensor disabled at factory but can
- be re-enabled upon commissioning.
 Not available with 347V. Cannot be ordered with 40L, EZB, and sensor combination.
- 11 For additional paint finishes, refer to Architectural Colors.

WL4-LED

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MITCHELL/MATTHEWS © 2019 ARCHITECTS & URBAN PLANNERS CHARLOTTESVILLE 434.979.7550

WL4 Wall Bracket & Surface Mount LED

nLight° Wired Contro Order as separate catalog		itybrands.com/products/controls/nlight.	
WallPod stations	Model number	Occupancy sensors	Model number
On/Off	nPODM [color]	Small motion 360°, ceiling (PIR / dual tech)	nCM 9 RJB / nCM PDT 9 RJB
On/Off & raise/lower	nPODM DX [color]	Large motion 360°, ceiling (PIR / dual tech)	nCM10 RJB / nCM PDT 10 RJ
Graphic touchscreen	nPOD GFX [color]	Wall switch with raise/lower	nWSX PDT LV DX [color]
Photocell controls	Model number	Cat-5 cable (plenum rated)	Model number
Full range dimming	nCM ADCX RJB	10' cable	CAT5 10FT J1
		30' cable	CATS 30FT J1

nLight [®] AIR Control Accessories: Order as separate catalog number. Vis	it www.acuitybrands.com/products/controls/nlightair.					
Wall switches Model number						
On/Off single pole	rPODB [color] G2					
On/Off two pole	rPODB 2P [color] G2					
On/Off & raise/lower single pole	rPODB DX [color] G2					
On/Off & raise/lower two pole	rPODB 2P DX [color] G2					
On/Off & raise/lower single pole	rPODBZ DX WH G2					

		ORDERING INFORMATION				
rCMS Example: RCMS PDT 10 AR G2						
Series/Detection	Occupancy Detection	Lens (Required)	Operating Mode	Generation		
RCMS nLight AIR occupancy and daylight sensor	(blank) PIR Detection PDT Dual Tech PIR/ Microphonics	 Large Motion/Extended Range 360° Small Motion/Extended Range 360° High Bay 360° Lens 	(blank) None AIR Auxiliary Relay	G2 Generation 2 compatibility		



ALITHONIA LIGHTING

LED: One Lithonia Way Conyers, GA 30012 Phone: 800-858-7763 Fax: 770-929-8789 www.lithonia.com

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WL4-LED

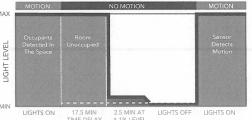
WL4 Wall Bracket & Surface Mount LED

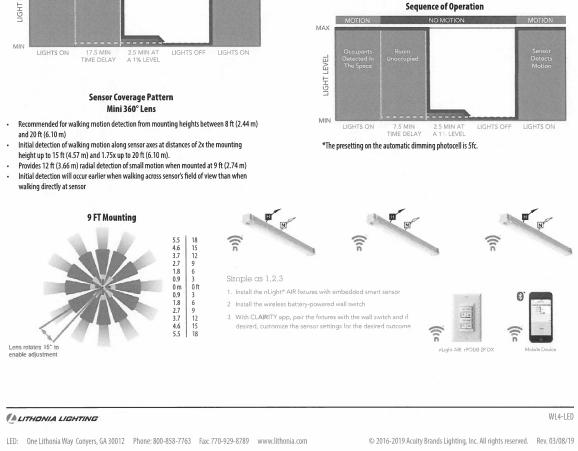
Sensor Options							
0	Automatic	Occupancy Sensing		Occupancy Sensing		nLight Wired	nLight AIR
Option	Dimming Photocell	PIR	PDT	Networking	Networking		
MSD7		Х					
NES7		X		Х			
NES7ADCX	Х	X		Х			
NESPDT7			X	Х			
RES7	Х	X			Х		
RES7PDT	Х	X	X		Х		

Integrated Sensor with Individual Control

The MSD7 PIR occupancy sensor is ideal for areas without obstructions and where daylight harvesting may be desired. Suggested applications include, but not limited to, hallways, corridors, storage rooms, and breakrooms or other areas where people are typically moving

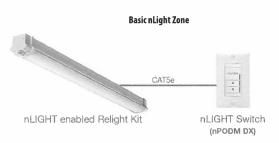






CUT SHEETS

PSI CHAPTER OF SIGMA CHI CHARLOTTESVILLE, VIRGINIA MARCH 26, 2019



nLight Wired Networking

The nES 7 is ideal for small rooms without obstructions or areas with primarily walking motion. Ideal areas include hallways, corridors, storage rooms, and breakrooms. Additionally, the NESTADCX includes an integrated photocell, which enables daylight harvesting controls.

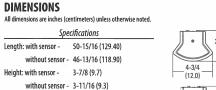
For areas like restrooms, private offices, open offices, conference rooms or any space with obstructions, the nES PDT 7 dual technology sensor is recommended. The nES PDT 7 utilizes both PIR (passive infrared) and Microphonics technologies to detect occupancy.

nLight AIR Wireless

nLight AIR is the ideal solution for retrofit or new construction spaces where adding additional wiring can be labor intensive and costly. nLight AIR is available with or without an integral sensor. The integrated RES7 or RES7PDT smart sensors are part of each luminaire in the nLight AIR network, which can be grouped to control multiple luminaires. The granularity of control with the digital PIR occupancy detection and daylight sensing makes a great solution for any application.

WL4 Wall Bracket & Surface Mount LED

	Performance	Data			
.umen package	ackage Input watts Lumens		Input watts Lumens		LPW
20L LP830	18.7	2050	110		
20L LP835	18.7	2152	115		
20L LP840	18.7	2255	121		
20L LP850	18.7	2410	129		
30L LP830	28.2	2952	105		
30L LP835	28.2	3095	110		
30L LP840	28.2	3251	115		
30L LP850	28.2	3239	115		
40L LP830	39.5	3927	99		
40L LP835	39.5	4124	104		
40L LP840	39.5	4325	110		
40L LP850	39.5	4571	116		





3-11/16 (9,3)

3-7/8

4-3/4

Without sensor

With sensor

 How to Calculate Estimated Lumens in Emergency Mode

 Use the formula below to estimate the delivered lumens in emergency mode

 Delivered Lumens = -1.25 x P x LPW

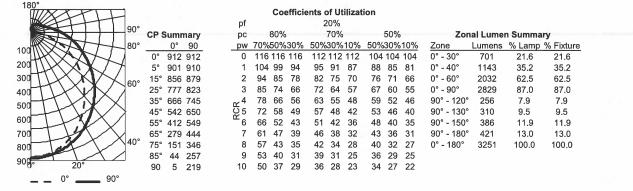
 P = Ouput power of emergency driver. P = 10W for E10WLCP option.

 LPW = Lumen per watt rating of the luminaire. This information is available on the ABL luminaire spec sheet.

 LPW = Lumen per watt rating of the luminaire. LPW information available in Performance Data section.

PHOTOMETRICS

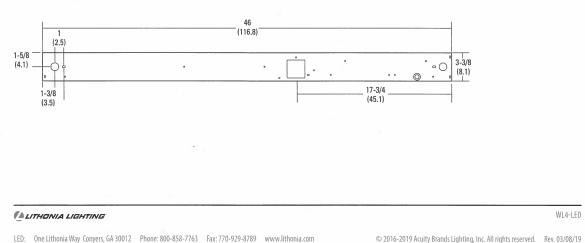
WL4 30L EZ1 LP840, 3250.8 delivered lumens, test no. LTL25482P5, tested in accordance to IESNA LM-79



Width: 4-3/4 (12.1)

MOUNTING DATA

For unit installation; surface ceiling or wall mounting.



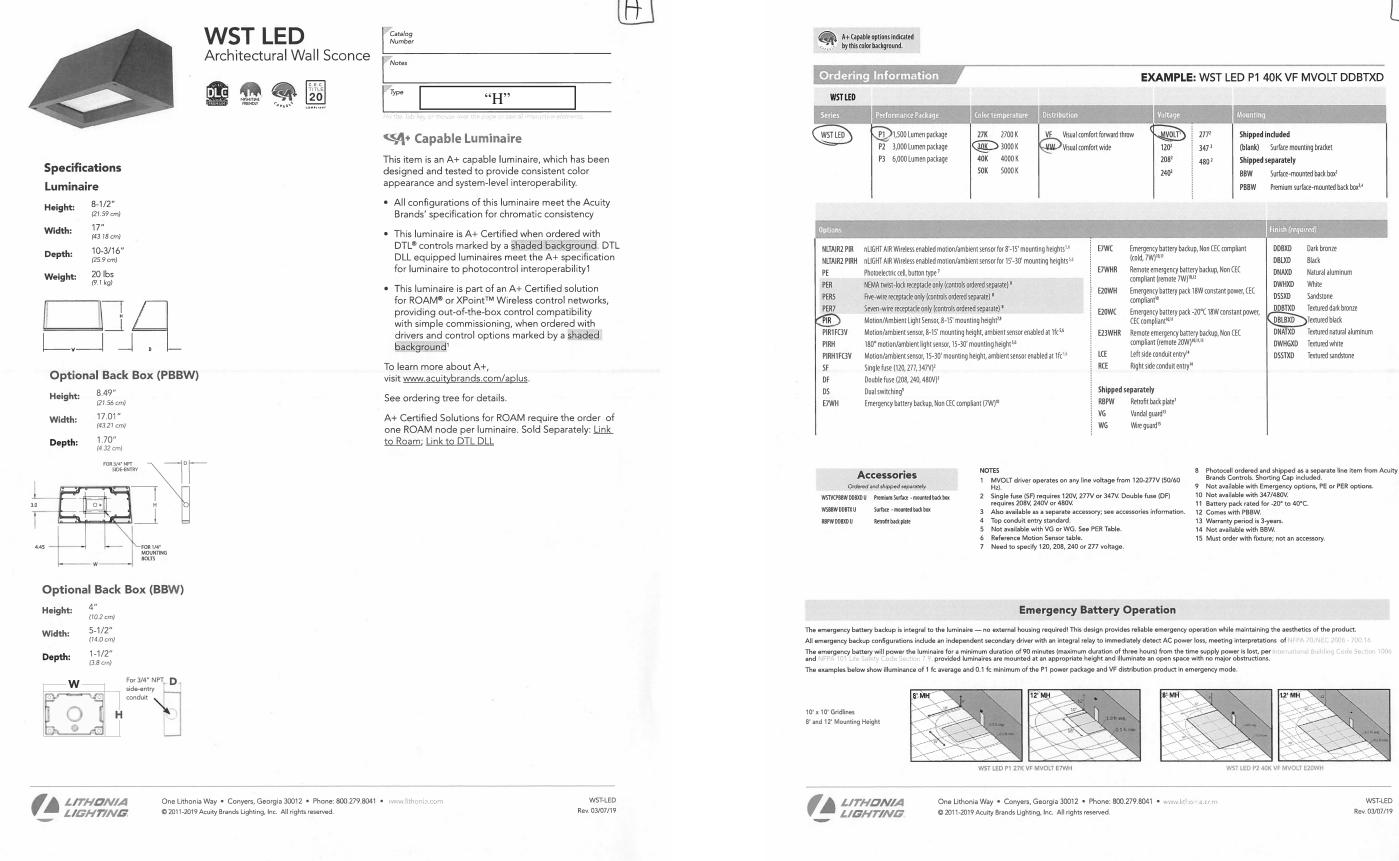
CUT SHEETS

PSI CHAPTER OF SIGMA CHI Charlottesville, virginia March 26, 2019

C Solutions | forms | light SPECIFICATIONS Type: 'C" AT FRONT DOOR V 5520 Project: LAURA Qty: 14DIA 18DIA 36-1/2" 37-1/4" 40-1/4" - 014" - Ø16" Warranty - 1219" 1-year limited warranty. Complete warranty Ø10-1/4" ----Ø7"terms located at www.acuitybrands.com/ CustomerResources/Terms and conditions.aspx 3-5/8" Actual performance may differ as a result of end-user environment and application. Canopy for: 14DIA with 1/32TRT source 16DIA with 2/42TRT source Canopy for: 18DIA with 3/42TRT source CATALOG NUMBER Example: WFP5520 14DIA SCHOOL 1/60A19 120 OG AB Series Special Diameter Diffuser Source Voltage Lens Finish WFP5520 Gassworks Series 120 120V 277 277V 347* 347V OG Opal Glass AB Antique Brass Over Brass PB Polished Brass PBP Pale Bronze PN Polished Nickel 14DIA 14 Inch Nominal Diameter SCHOOL Schoolhouse Globe MOD* Modification / Consult Factory 1/60A19 (1) 60w A19/Medium 1/32TRT (1) 32w Triple Tube/GX24q3 16DIA 16 Inch Nominal Diameter 1/75A19 2/42TRT CPF* Custom Paint Finish (1) 75w A19/Medium (2) 42w Triple Tube/GX24q4 CMF* Custom Metal Finish 18DIA 18 Inch Nominal Diameter 1/100A19 (1) 100w A19/Medium 3/42TRT (3) 42w Triple Tube/GX24q4 Describe Modification: Notes Weight UL listed and cUL approved. Winona Lighting products are union made. Custom Sizes and Finishes available upon request. All Fluorescent fixtures available in 120V and 277V. Winona Lighting reserves the right to make design memore utilibrat ories constituted area. 12lbs 15lbs 15lbs 18lbs 20lbs 23lbs 1/60A19-14DIA 1/32TRT-14DIA 1/75A19-16DIA 2/42TRT-16DIA 1/100A19-18DIA 3/42TRT-18DIA changes without prior notice.Lamps not included. * Available by modification only. Consult factory. Winona Lighting • 3760 West Fourth Street • Winona, MN 55987 • 800.328,5291 • www.winonalighting.com Rev, 03/17/17 WFP5520_LAURA SecurityBrands © 2015 Acuity Brands Lighting, Inc. All Rights Reserved. "Winona" is a registered trademark of Acuity Brands Lighting. Products herein may be covered by one or more U.S. Patents and Patents Pending. Specifications subject to change without notice. 1

CUT SHEETS

PSI CHAPTER OF SIGMA CHI Charlottesville, virginia March 26, 2019



CUT SHEETS

PSI CHAPTER OF SIGMA CHI CHARLOTTESVILLE, VIRGINIA MARCH 26, 2019

EXAMPLE: WST LED P1 40K VF MVOLT DDBTXD

	Voltage		Mounting
forward throw wide	MVOLT') 120 ² 208 ² 240 ²	277² 347 ² 480 ²	Shipped included (blank) Surface mounting bracket Shipped separately BBW BBW Surface-mounted back box ³ PBBW Premium surface-mounted back box ^{3,4}

		Finish (reguired)	
E7WC E7WHR E20WH E20WC E23WHR LCE RCE	Emergency battery backup, Non CEC compliant (cold, 7W) ^{14:1} Remote emergency battery backup, Non CEC compliant (remote 7W) ^{14:12} Emergency battery pack 18W constant power, CEC compliant ¹⁶ Emergency battery pack -20°C 18W constant power, CEC compliant ^{16:14} Remote emergency battery backup, Non CEC compliant (remote 20W) ^{141:10} Left side conduit entry ¹⁴ Right side conduit entry ¹⁴	DDBXD Dark bronze DBLXD Black DNAXD Natural aluminum DWHXD White DSSXD Sandstone DDBTXD Textured dark bronz DBLBXD Textured black DNATXD Textured natural alu DWHCXD Textured white DSSTXD Textured sandstone	iminum

BPW	Retrofit back plate3
G	Vandal guard ¹⁵
/G	Wire guard ¹⁵

	8	Photocell
50/60		Brands Co

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Performance Data

Lumen Ambient Temperature (LAT) Multipliers Use these factors to determine relative lumen output for average ambient temperature from 0-40°C (32-104°F).

		Lumen Multiplie
0°C	32°F	1.03
10°C	50°F	1.02
20°C	68°F	1.01
25°C	77°F	1.00
30°C	86°F	0.99
40°C	104°F	0.98

Projected LED Lumen Maintenance

Values calculated according to IESNA TM-21-11 methodology and valid up to 40°C.

Operating Hours	0	25,000	50,000	100,000
Lumen Maintenance Factor	1.0	>0.95	>0.92	>0.87

ectrical L	Jua						
Performance package	System Watts	120	208	240	277	347	480
D1	11	0.1	0.06	0.05	0.04		
P1	14	-			-	0.04	0.03
P1 DS	14	0.12	0.07	0.06	0.06		
-	25	0.21	0.13	0.11	0.1		
P2	30					0.09	0.06
P2 DS	25	0.21	0.13	0.11	0.1		
P3	50	0.42	0.24	0.21	0.19		
rš	56	-	-			0.16	0.12
P3 DS	52	0.43	0.26	0.23	0.21		

Electrical Load

PIR1FC3V or PIRH1FC3V	3V (37%) Output	10V (100%) Output	Enabled @ 1FC	3 sec	5 min	5 min
*PIR or PIRH	3V (37%) Output	10V (100%) Output	Enabled @ 5FC	3 sec	5 min	5 min
Option	Dimmed State	High Level (when triggered)	Photocell Operation	Ramp-up Time	Dwell Time	Ramp-dow Time

*for use with centrilize Dusk to Dawn

PER Table

	PER		PER5 (5 wire)	PER7 (7 wire)							
	(3 wire)		Wire 4/Wire5		Wire 4/Wire5	Wire 6/Wire7					
Photocontrol Only (On/Off)	~	Wired to dimming leads on driver		A	Wired to dimming leads on driver	Wires Capped inside fixture					
ROAM	0 1		Wired to dimming leads on driver	A	Wired to dimming leads on driver	Wires Capped inside fixture					
ROAM with Motion	A		Wired to dimming leads on driver	A	Wired to dimming leads on driver	Wires Capped inside fixture					
Futureproof*	0	A	Wired to dimming leads on driver	~	Wired to dimming leads on driver	Wires Capped inside fixture					
Futureproof* with Motion	0	A	Wired to dimming leads on driver	~	Wired to dimming leads on driver	Wires Capped inside fixture					

V Recon

Will not work

Alternate

*Futureproof means: Ability to change controls in the future.

Lumen Output

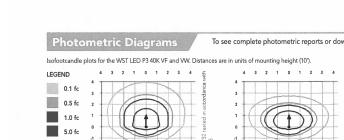
Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts.

Performance	System Watts Dist.		27K (2700K, 70 CRI)					30K (3000K, 76 CRI)				40K (4000K, 70 CRI)				50K (5000K, 70 CRI)						
Package			Lumens	В	IJ	6	LPW	Lumens	ß	U	G			В	U	6	LPW		8	U	6	
D1	12W	VF	1,494	0	0	0	125	1,529	0	0	0	127	1,639	0	0	0	137	1,639	0	0	0	137
P1 1	1200	VW	1,513	0	0	0	126	1,548	0	0	0	129	1,659	0	0	0	138	1,660	0	0	0	138
	2011	VF	3,163	1	0	1	127	3,237	1	0	1	129	3,469	1	0	1	139	3,468	1	0	1	139
P2 25W	25W	VW	3,201	1	0	0	128	3,276	1	0	0	131	3,512	1	0	0	140	3,512	1	0	0	140
P3 50W	5011/	VF	6,025	1	0	1	121	6,165	1	0	1	123	6,609	1	0	1	132	6,607	1	0	1	132
	VW	6,098	1	0	1	122	6,240	1	0	1	125	6,689	1	0	1	134	6,691	1	0	1	134	



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FEATURES & SPECIFICATIONS

INTENDED USE

The classic architectural shape of the WST LED was designed for applications such as hospitals, schools, malls, restaurants, and commercial buildings. The long life LEDs and driver make this luminaire nearly maintenance-free.

CONSTRUCTION

CONSTRUCTION The single-piece die-cast aluminum housing integrates secondary heat sinks to optimize thermal transfer from the internal light engine heat sinks and promote long life. The driver is mounted in direct contact with the casting for a low operating temperature and long life. The die-cast door frame is fully gasketed with a one-piece solid silicone gasket to keep out moisture and dust, providing an IP65 rating for the luminaire.

FINISH

FINISH Exterior parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a minimum 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling. Standard Super Durable colors include dark bronze, black, natural aluminum, sandstone and white. Available in textured and non-textured finishes.

OPTICS

Well crafted reflector optics allow the light engine to be recessed within the luminaire, providing visual comfort, superior distribution, uniformity, and spacing in walk-mount applications. The WST LED has zero uplight and qualifies as a Nighttime Friendly™ product, meaning it is consistent with the LEED® and Green Globes™ criteria for eliminating wasteful uplight.

LITHONIA LIGHTING.

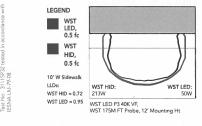
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CUT SHEETS

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To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's WST LED homepage.

Distribution overlay comparison to 175W metal halide



ELECTRICAL

ELECT NICAL Light engine(s) consist of 98 high-efficacy LEDs mounted to a metal core circuit board and integral aluminum heat sinks to maximize heat dissipation and promote long life (100,000 hrs at 40°C, L87). Class 2 electronic driver has a power factor >90%, TID -20%. Easily-serviceable surge protection device meets a minimum Category B (per ANSI/IEEE C62.41.2).

INSTALLATION

A universal mounting plate with integral mounting support arms allows the fixture to hinge down for easy access while making wiring connections

LISTINGS CSA certified to U.S. and Canadian standards. Luminaire is IP65 rated. PIR and back box options are rated for wet location. Rated for -30°C to 40°C ambient.

DesignLights Consortium[®] (DLC) Premium qualified product. Not all versions of this product may be DLC Premium qualified. Please check the DLC Qualified Products List at vww.des.gnlights.org/QPL to confirm which versions are qualified.

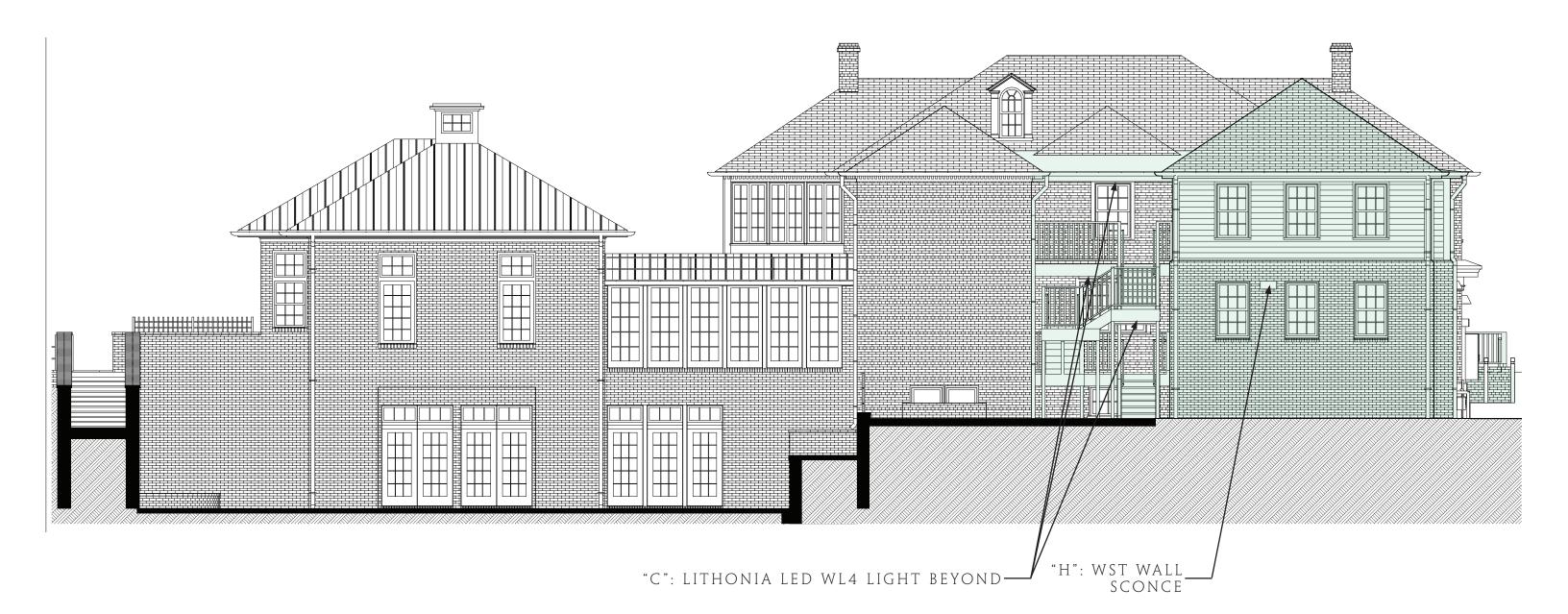
WARRANTY

5-year limited warranty. Complete warranty terms located at:

Note: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.

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REAR ELEVATION

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NORTH ELEVATION

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FRONT ELEVATION

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