

# WLZ SERIES

## Zero Uplight LED Wallpack

**FIXTURE MODEL:**  
WLZ1-3-3K-BL  
**COLOR:** BLACK



### DESCRIPTION

The WLZ Series features an architecturally relevant low-profile LED design in lumen packages ranging from 1500 lumens to over 12,000 lumens. Its high-efficiency light engine is designed for optimal light control and distribution with zero uplight. This family of product is offered in several size housings to complement any building exterior and accommodates mounting heights up to 35'. Integral emergency battery backup available for path of egress with Cold Location operation down to -20°C.

### SPECIFICATIONS

#### Construction

- Sleek die-cast aluminum housing with stainless steel hardware and powder coated black, bronze, silver or white finish
- UV-stabilized polycarbonate optical lens
- Integral heat sink for maximized heat dissipation
- Back box houses drivers away from LEDs and includes three 3/4" hubs (WLZ1 and WLZ2 - two 3/4" hubs)

#### Optics/LEDs

- Zero uplight design to minimize light pollution
- 15 to 100 Watt models replace up to 400 Watt HID for up to 70% energy savings
- Efficacies up to 123 LPW at 5000K to maximize utility rebates
- Type III and Type IV distributions for optimal light distribution (WLZ1 - Type III only)
- Available in 3000K, 3500K, 4000K and 5000K CCT
- L70 of 50,000 hours at 40°C
- CRI of ≥70

#### Electrical

- Class 2 power supply, 120-277VAC, 50/60Hz
- 347/480VAC Dedicated driver option for WLZ4, WLZ7 and WLZ10
- 0-10V Dimming driver (120-277VAC only)
- Power supply rated Class A EMI rating

#### Installation

- Housing hinges to back box and is secured with set screws
- Back box is complete with three 3/4" hubs and internal bubble level for easy installation (WLZ1 and WLZ2 - two 3/4" hubs)
- Mounts to a standard 3-1/2" or 4" square electrical J-box
- Suitable for downlight installation only

#### Options

##### Battery Backup

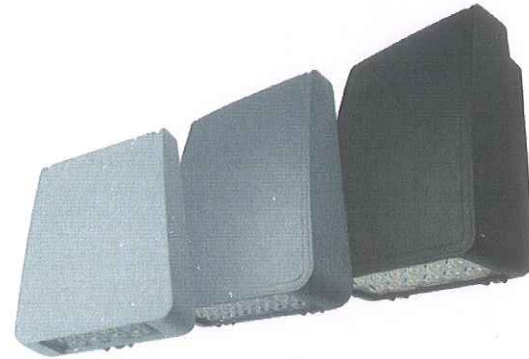
- Integral battery backup (BB) provides over 700 lumens and 90 minutes of runtime for path of egress. Rated for ambient temperatures of 0°C to 40°C (32°F to 104°F). Not available on WLZ1
- Integral Battery Backup with Internal Heater (BB-IH) provides over 700 lumens and 90 minutes of runtime for path of egress in Cold Locations down to -20°C. Not available on WLZ1 or WLZ2.
- Factory installed dual driver options for WLZ4 and WLZ10 (WLZ7 is standard with two drivers)
- Factory installed 120/277VAC button type photocontrol option (PC)
- Factory installed 10kVA surge protection options (SP or SPH)

##### Accessories (Field Installed)

- 120/277VAC Button type universal photocontrol options accessory (PCU)
- Dimming occupancy sensor programmable, Wattstopper FSP221 available in multiple finishes (TL-SCES-L2)
- Remote control for occupancy sensor. Optional (TL-FSIR100)

##### Testing & Compliance

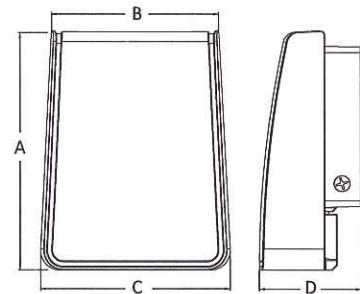
- cULus Listed for Wet Locations
- DesignLights Consortium® (DLC) Qualified (verify QPL for specific models)
- International Dark Sky friendly approved product. (IDA) 3000K only
- Operating temperatures: -40°C to 40°C (-40°F to 104°F)



Specs At A Glance*					
Model	WLZ1	WLZ2	WLZ4	WLZ7	WLZ10
Wattage (nominal)	15W	25W	40W	70W	100W
Lumens (lm)	1745	3198	5021	8729	12,393
Efficacy (LPW)	115	118	123	120	116
Equivalency (HID)	50W	100W	150W	250W	400W
Distribution	Type III, IV (WLZ1 Type III only)				
CCT	3000K, 3500K, 4000K, 5000K				
CRI	≥70				
Input Voltage	120-277VAC, 50/60Hz, 347/480V option				
Operating Temp	-40°C to 40°C (-40°F to 104°F)				
Certifications	UL Listed for Wet Locations, DLC, IDA				
Warranty	5 Years				
Weight	2.6 lbs	3.3 lbs	6.0 lbs	9.9 lbs	12.1 lbs

\* Nominal Wattage, tested at 5000K CCT, Type III distribution. Values at 120/277VAC. See performance table for more detailed lumen information.

Note: Environment and application will affect actual performance. Typical values and 25°C (77°F) used for testing. Specifications subject to change without notice.



Model	A (Inches)	B (Inches)	C (Inches)	D (Inches)
WLZ1	6.7	5.0	5.6	3.2
WLZ2	8.0	5.7	6.0	3.2
WLZ4	10.2	6.8	7.8	5.0
WLZ7	11.6	8.3	9.4	5.0
WLZ10	11.6	10.3	11.5	5.0

Model: \_\_\_\_\_ Date: \_\_\_\_\_

Accessories: \_\_\_\_\_

Job Name: \_\_\_\_\_ Type: \_\_\_\_\_



Ordering Information (Example: WLZ2-3-4K-BR)

Series/Configuration	Distribution	Input Voltage	CCT	Finish	Options
WLZ1 = 15W, Extra-Small	3 = Type III	BLANK = 120-277VAC	3K = 3000K	BL = Black	BB <sup>5</sup> = Battery backup
WLZ2 = 25W, Small	4 <sup>2</sup> = Type IV	HVS <sup>3</sup> = 347/480VAC	35K <sup>4</sup> = 3500K	BR = Bronze	BB-IH <sup>6</sup> = Cold Location Battery backup (operation down to -20°C)
WLZ4 = 40W, Medium			4K = 4000K	SV = Silver	DD <sup>7</sup> = Dual driver
WLZ7 <sup>1</sup> = 70W, Large			5K = 5000K	WH = White	PC = 120/277VAC Button photocontrol
WLZ10 = 100W, Extra-Large					SP = 120/277VAC Surge protection SPH = 347/480VAC Surge protection

Notes

<sup>1</sup> Standard with two drivers	
<sup>2</sup> Not available for WLZ1 configuration	
<sup>3</sup> WLZ4, WLZ7 and WLZ10 only, compatible with SPH option only	Accessories <sup>10</sup> (Field Installed)
<sup>4</sup> Consult factory for lead times	PCU = 120/277VAC Button photocontrol accessory
<sup>5</sup> WLZ2, WLZ4, WLZ7 and WLZ10 only. 120/277VAC Only. Not compatible with DD and SPH options	TL-FSIR-100 = Remote control for TL-SCES sensor (optional)
<sup>6</sup> WLZ4, WLZ7 and WLZ10 only. 120/277VAC Only. Not compatible with DD and SPH options	TL-SCES-L2 <sup>8,9</sup> = Motion sensor, white finish
<sup>7</sup> Dual driver option available for WLZ4 and WLZ10 only. Not compatible with photocontrol option, consult factory	TL-SCES-L2-BL <sup>8,9</sup> = Motion sensor, black finish
<sup>8</sup> Compatible with WLZ4, WLZ7 and WLZ10 only. Contact factory for compatibility with other options	TL-SCES-L2-BR <sup>8,9</sup> = Motion sensor, bronze finish
<sup>9</sup> Dimming occupancy sensor, programmable, Wattstopper FSP221, L2 Lens	TL-SCES-L2-GR <sup>8,9</sup> = Motion sensor, gray finish
<sup>10</sup> Order as a separate line item. Shipped in separate box for final installation in the field	

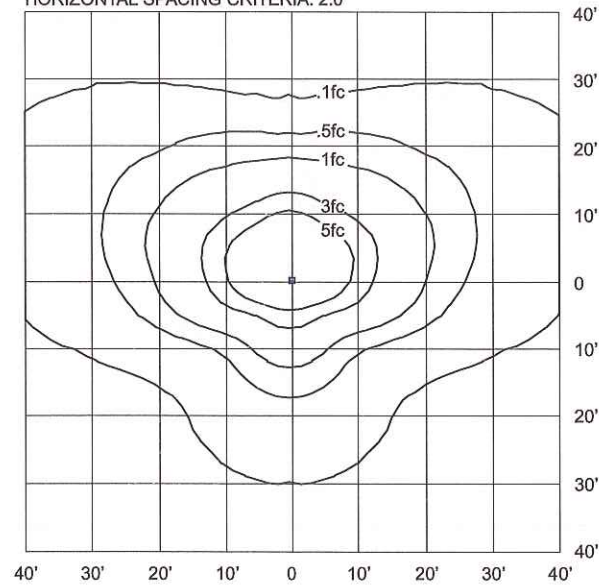
Performance Data

Model	Wattage (W)	CCT	Distribution	Lumen Output (lm)	Efficacy (LPW)
WLZ1-3-3K-XX	15	3000K	Type III	1531	101
WLZ1-3-4K-XX	15	4000K	Type III	1534	101
WLZ1-3-5K-XX	15	5000K	Type III	1745	115
WLZ2-3-3K-XX	25	3000K	Type III	2795	103
WLZ2-3-4K-XX	25	4000K	Type III	2997	111
WLZ2-3-5K-XX	25	5000K	Type III	3198	118
WLZ2-4-3K-XX	25	3000K	Type IV	2609	98
WLZ2-4-4K-XX	25	4000K	Type IV	2797	105
WLZ2-4-5K-XX	25	5000K	Type IV	2985	112
WLZ4-3-3K-XX	40	3000K	Type III	4389	107
WLZ4-3-4K-XX	40	4000K	Type III	4705	115
WLZ4-3-5K-XX	40	5000K	Type III	5021	123
WLZ4-4-3K-XX	40	3000K	Type IV	4021	98
WLZ4-4-4K-XX	40	4000K	Type IV	4310	105
WLZ4-4-5K-XX	40	5000K	Type IV	4599	112
WLZ7-3-3K-XX	70	3000K	Type III	7657	105
WLZ7-3-4K-XX	70	4000K	Type III	8193	113
WLZ7-3-5K-XX	70	5000K	Type III	8729	120
WLZ7-4-3K-XX	70	3000K	Type IV	6837	94
WLZ7-4-4K-XX	70	4000K	Type IV	7316	101
WLZ7-4-5K-XX	70	5000K	Type IV	7794	107
WLZ10-3-3K-XX	100	3000K	Type III	10,871	102
WLZ10-3-4K-XX	100	4000K	Type III	11,632	109
WLZ10-3-5K-XX	100	5000K	Type III	12,393	116
WLZ10-4-3K-XX	100	3000K	Type IV	9706	91
WLZ10-4-4K-XX	100	4000K	Type IV	10,385	98
WLZ10-4-5K-XX	100	5000K	Type IV	11,065	104

\* Nominal Wattage. Values at 120/277VAC

Sample Photometrics

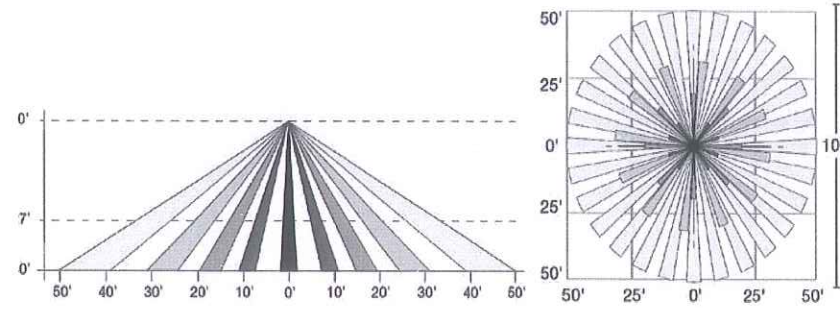
WLZ4-3-5K  
IES: TYPE III VERY SHORT  
MOUNTING HEIGHT: 10'  
TILT: ZERO  
HORIZONTAL SPACING CRITERIA: 2.0



**Sensor Details (Accessory: TL-SCES-L2)**



**Side and Top Sensor Coverage Pattern:**  
With FSP-L7 lens (included) 360° lens



**Settings for TL-SCES-L2**

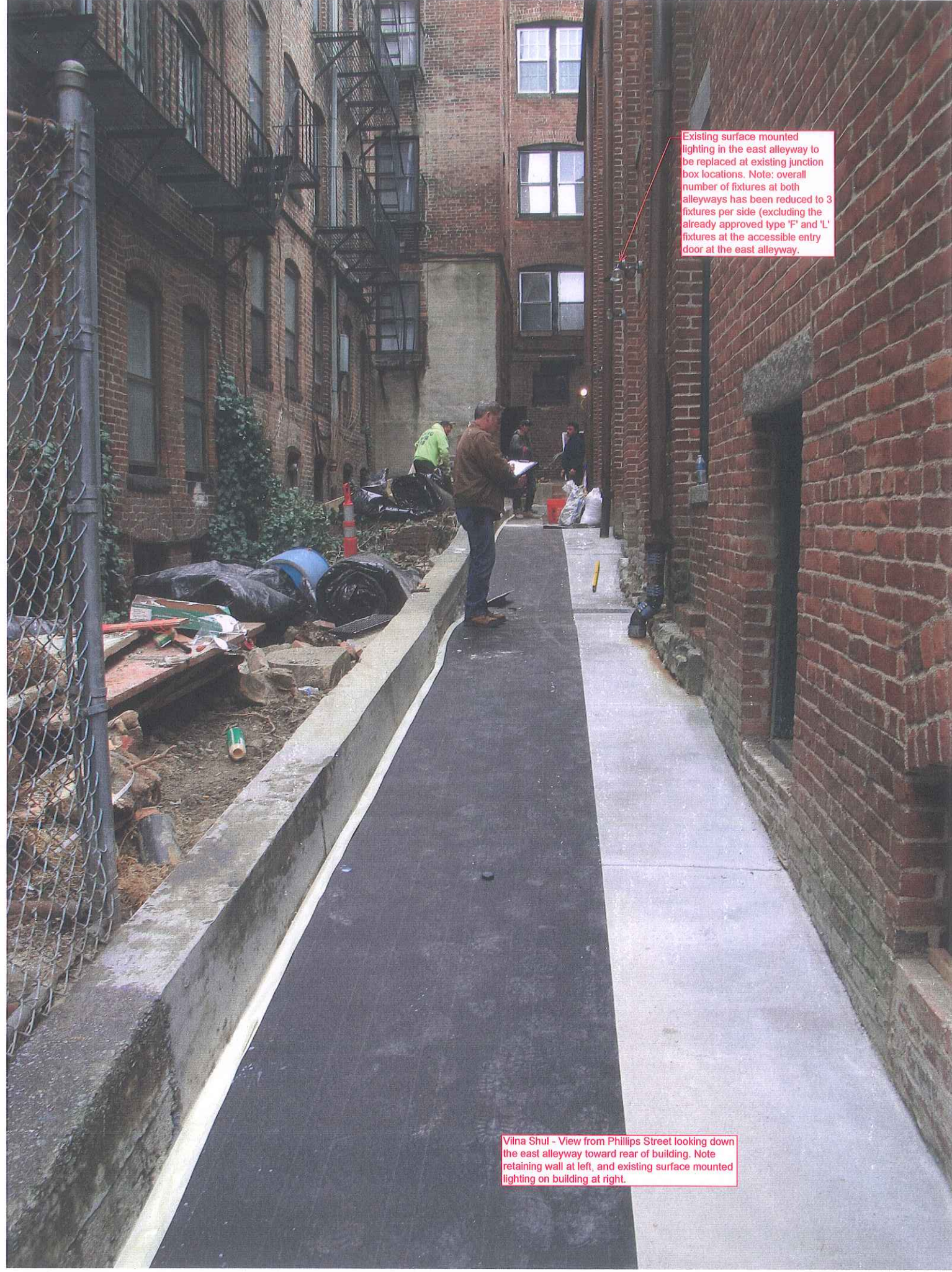
	Settings	Default
High Mode:	0-10V	10V
Low Mode:	Off, 0-9.8V	1V
Time Delay:	30 seconds; 5-30 minutes	5 Minutes
Cut Off Delay:	None, 1-60 Minutes, 1-5 hours	1 Hour
Sensitivity:	None, Low, Medium, Max	Max
Setpoint:	None, 1-250fc, Auto	Disabled
Ramp Up Time:	None, 1-60 Seconds	Disabled
Fade Down Time:	None, 1-60 Seconds	Disabled

**NOTE:**

To change settings in the field, please order TL-FSIR-100 controller.







Existing surface mounted lighting in the east alleyway to be replaced at existing junction box locations. Note: overall number of fixtures at both alleyways has been reduced to 3 fixtures per side (excluding the already approved type 'F' and 'L' fixtures at the accessible entry door at the east alleyway).

Vilna Shul - View from Phillips Street looking down the east alleyway toward rear of building. Note retaining wall at left, and existing surface mounted lighting on building at right.





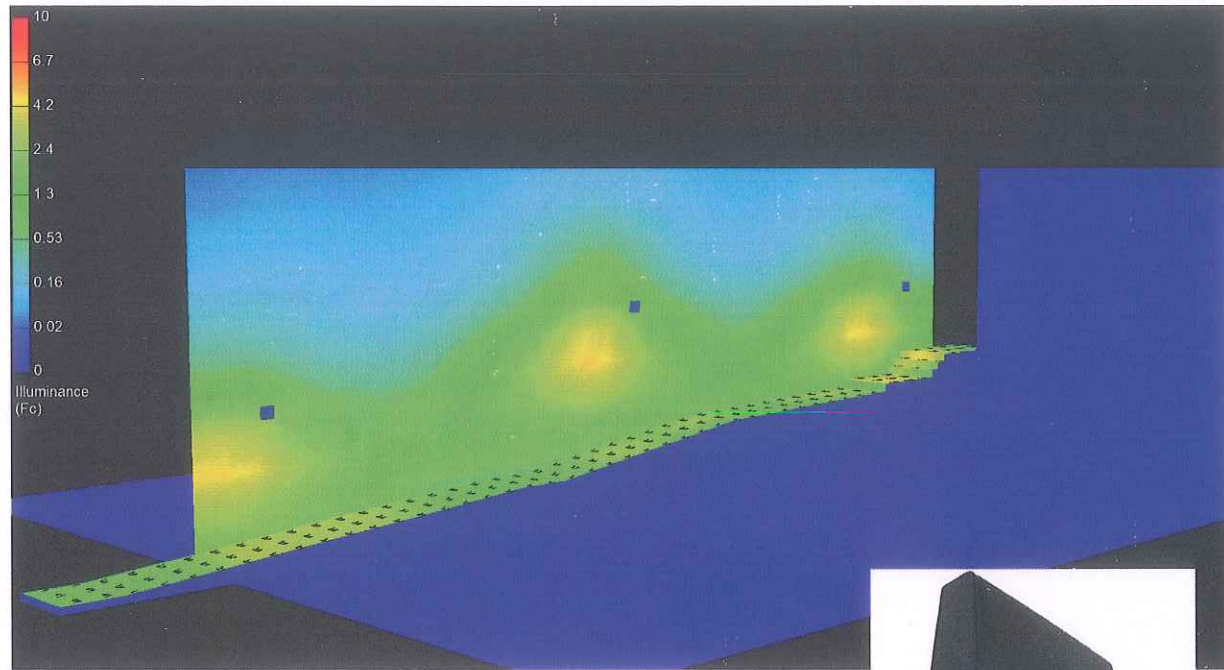
Existing surface mounted lights at West alleyway will be replaced with new light fixtures at existing junction boxes. These will be on new poles drilled into the masonry. Unused existing surface mounted conduit will be removed. Note that new fixture at both east and west alleyways is a low-profile fixture and is a "zero upright design" to minimize light pollution. The fixture color shall be black. Fixture model: WLZ1-3-3K-BL by Trace Light. See attached cut sheet and architectural drawings for light fixture specifications and lighting locations.

Exposed conduit, any unused conduit will be removed.

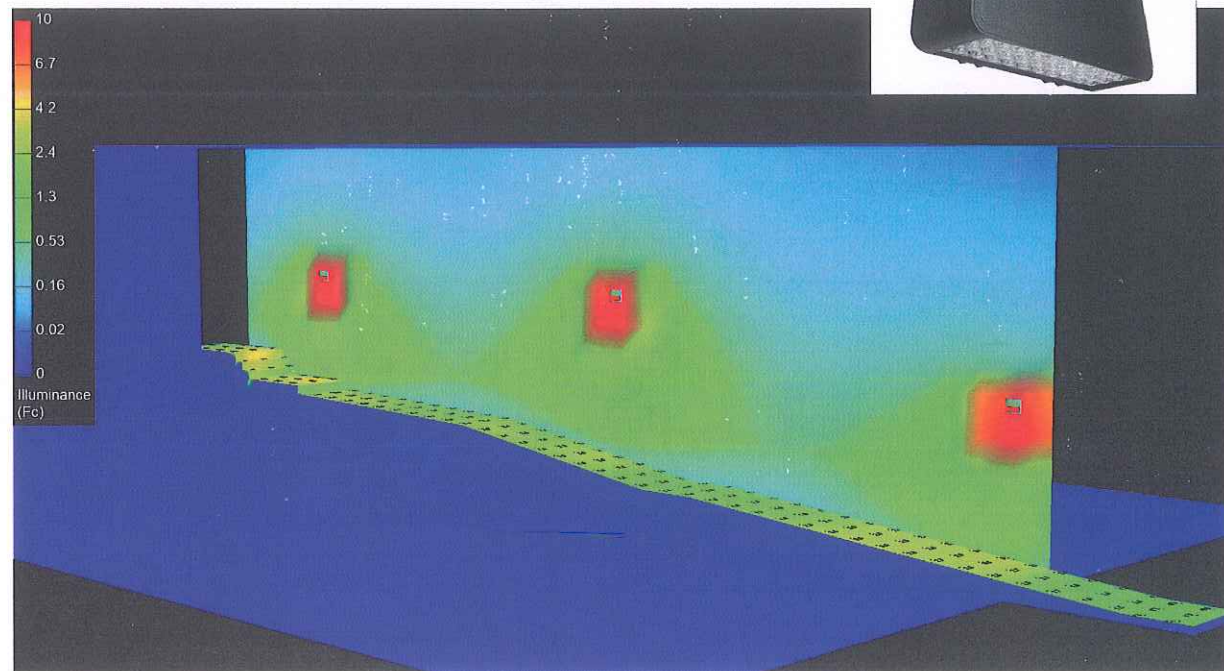
Vina Shut - West alleyway looking toward Phillips Street. Note exposed conduit, unused conduit will be removed.



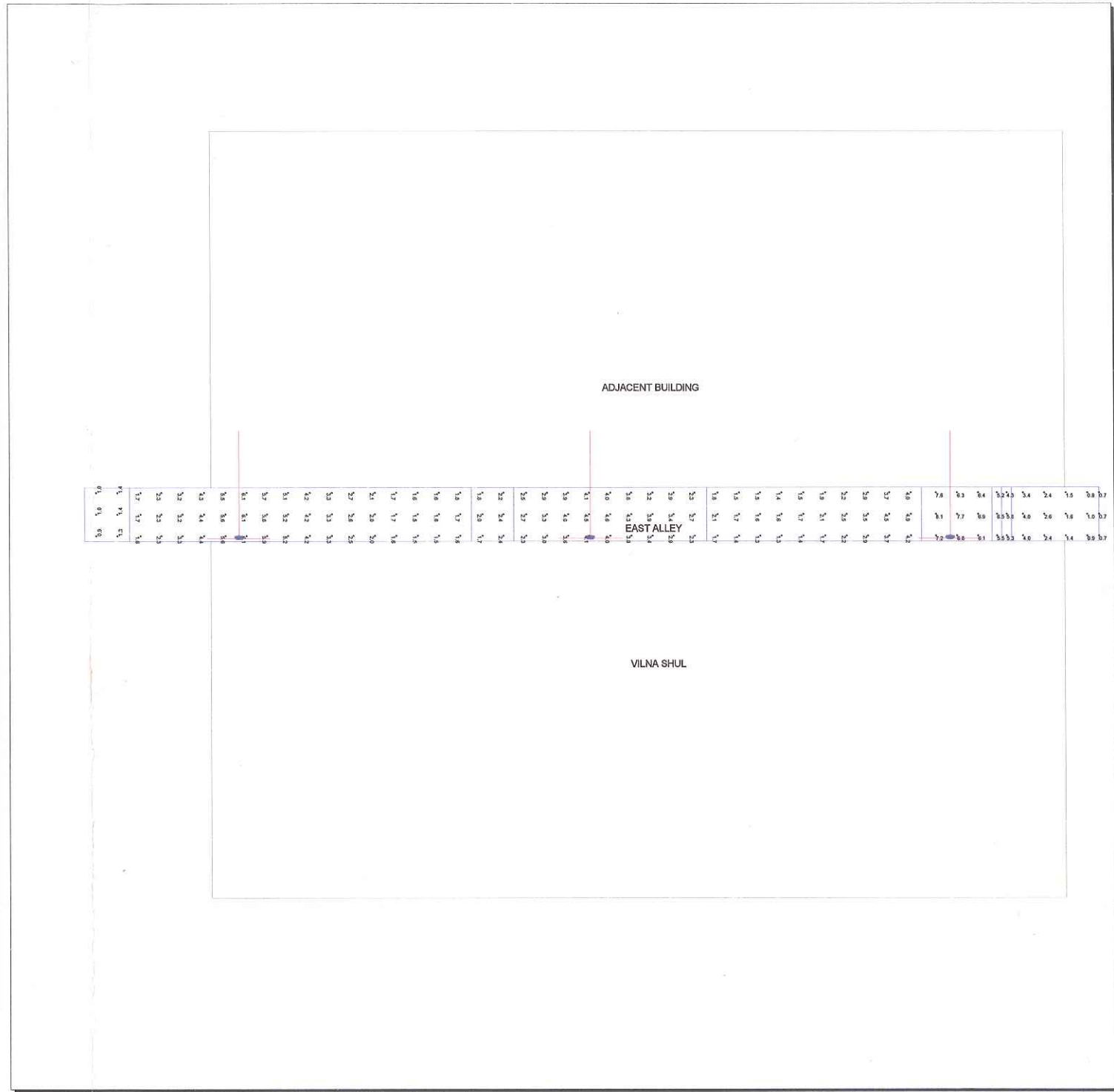




VIEW AT EAST WALL (ADJACENT BUILDING)



VIEW AT WEST WALL (VILNA SHUL)



PLAN VIEW

**GENERAL DISCLAIMER:**  
 Calculations have been performed according to IES standards and good practice. Some differences between measured and calculated results may occur due to differences in calculation methods, lighting product, component performance, measurement techniques and field conditions such as wind speed and temperature. Input data used to generate the attached calculations such as room dimensions, reflectance, fixture and architectural element data may affect the lighting calculations. If the end environmental conditions do not match the input data, differences will exist between measured and calculated results.  
 IES, Delivered/Not Delivered/Not Published/Not Date

**NOTE TO REVIEWER:**  
 The lighting fixture is shown in the plan view of the design. It is intended for use with the Light Loss Distribution (LLD) from current lamp manufacturer's catalog, a Luminaire Data Characterization Report (LDC) based on IES recommended values and a Ballast Factor (BF) from current luminaire specifications. Application of an assumed Light Loss Factor (LLF) will result in forecasts of performance that will not necessarily equal actual results.  
 For proper comparison of photometric layouts, it is essential that you visit all designs use current Light Loss Factors.

REVISIONS:

REV.	DESCRIPTION
REV. xx	



20-30 BEARVER ROAD  
 WETHERSFIELD, CT 06099  
 TELEPHONE 860.632.8206  
 FACSIMILE 860.632.8206

PROJECT TITLE:  
**VILNA SHUL**

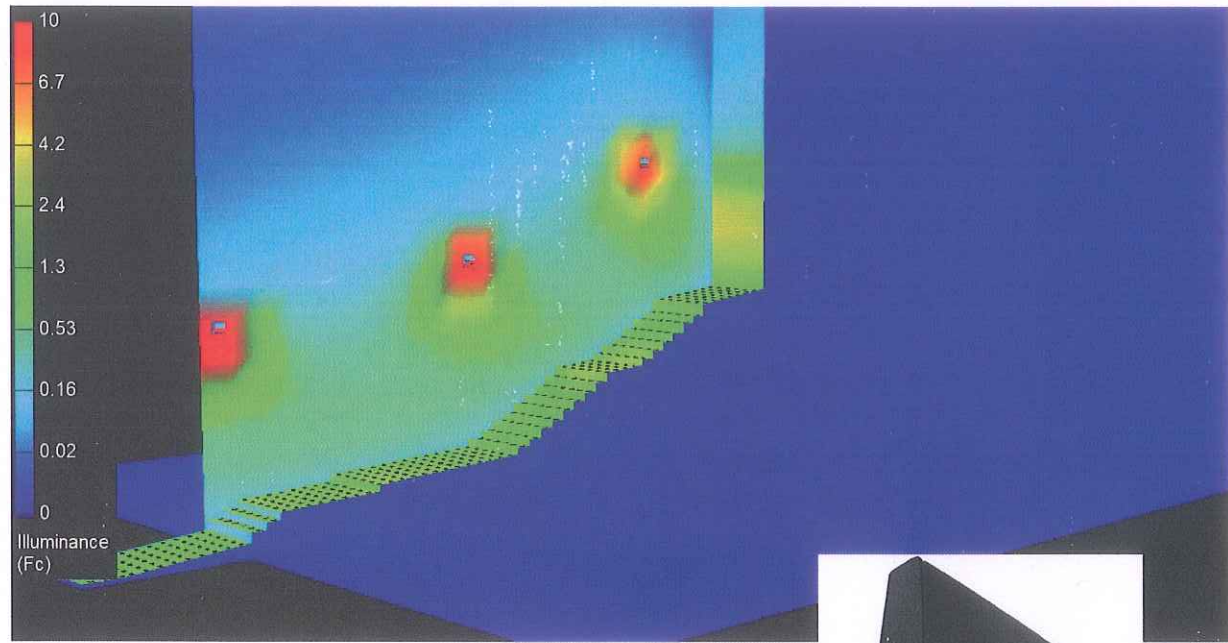
DRAWING TITLE:  
**EAST ALLEY  
 PHOTOMETRIC CALCULATION**

SCALE: NTS

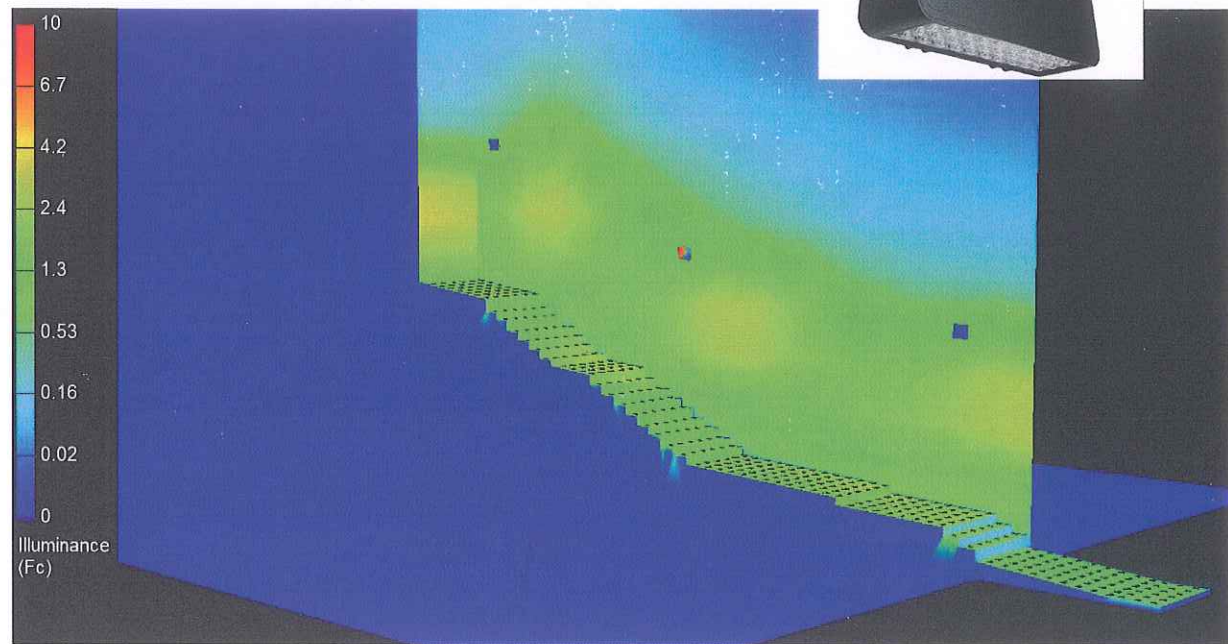
DATE: 12/19/2019

DRAWN BY: DP

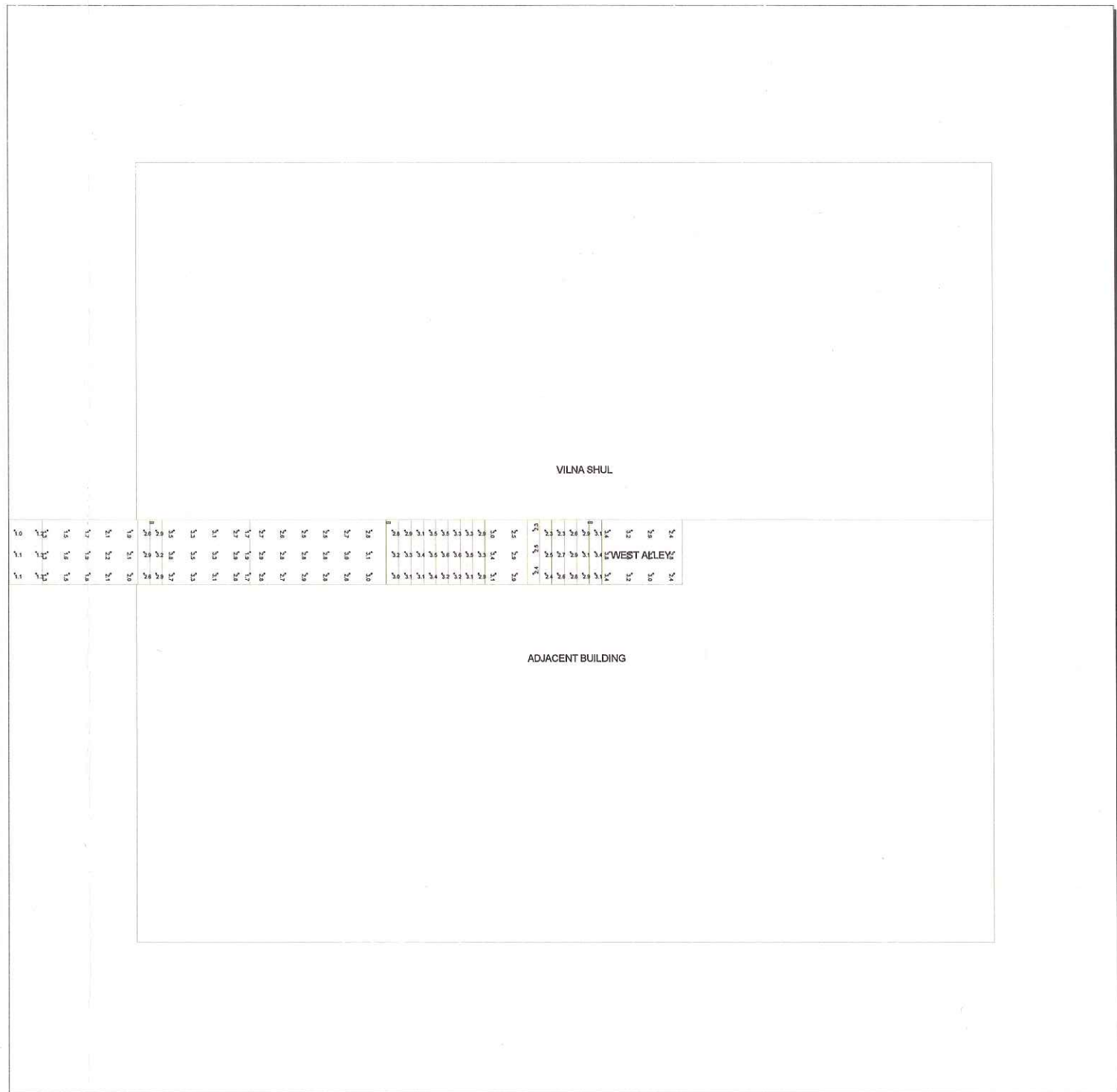
SHEET:  
**L-1/B**



VIEW AT EAST WALL (VILNA SHUL)



VIEW AT WEST WALL (ADJACENT BUILDING)



PLAN VIEW

**GENERAL DISCLAIMER:**  
 Calculations have been performed according to IES standards and good practice. There are differences between measured and calculated results and any variation in luminance in calculation method, lighting products, component performance, measurement techniques and field conditions such as ceiling and floor surface input data used to generate the simulated calculations such as room dimensions, reflections, furniture and ambient light may affect the lighting calculations. If the real environmental conditions do not match the input data, differences will occur between measured values and calculated values.  
**NOTE TO REVIEWER:**  
 Total Light Loss Factor (LLF) applied at the time of design is determined by applying the Light Loss Factor (LLF) from current program manufacturer's catalog & Luminaire Coefficient of Utilization (CU) based on IES recommended values and a Ballast Factor (BF) from current luminaire specification sheet. Application of an assumed Light Loss Factor (LLF) will result in forecasts of performance that will not necessarily depict actual results.  
 For proper comparison of photometric layouts, it is essential that you insist all designers use correct Light Loss Factors.

REVISIONS:

REV.	DESCRIPTION
REV. xx	

25-30 BEARVER ROAD  
 WETHERFIELD, CT 06109  
 TELEPHONE: 860.332.8350  
 FACSIMILE: 860.332.8350

PROJECT TITLE:  
**VILNA SHUL**

DRAWING TITLE:  
**WEST ALLEY  
 PHOTOMETRIC CALCULATION**

SCALE: NTS

DATE: 12/19/2019

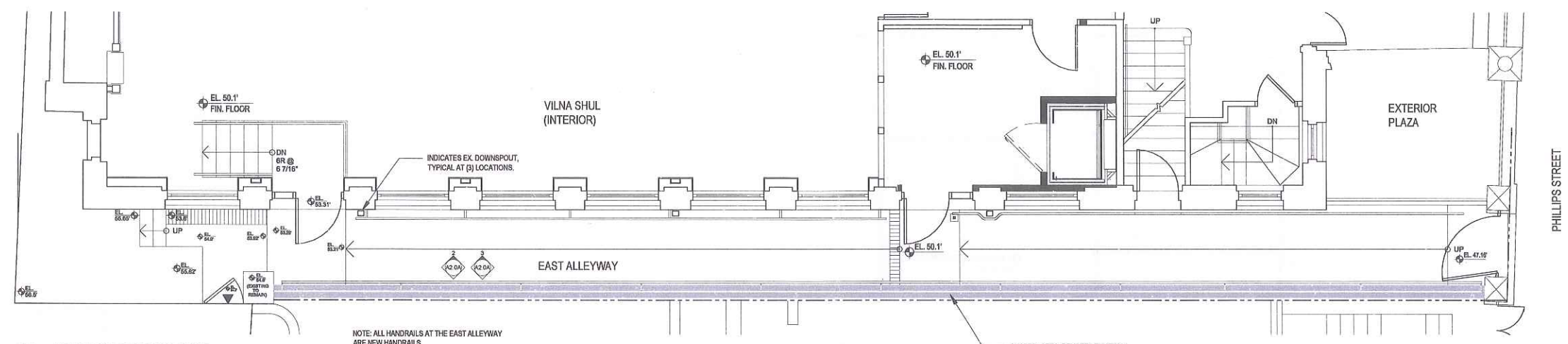
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SHEET:  
**L-2/B**

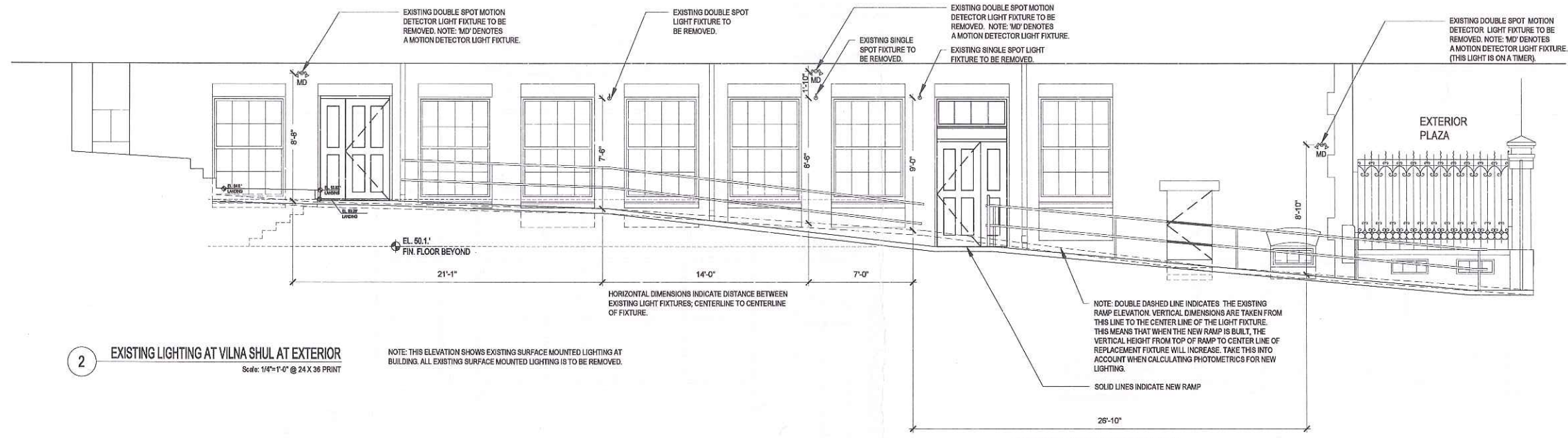


#	DATE	DESCRIPTION
	Dec. 20, 2019	

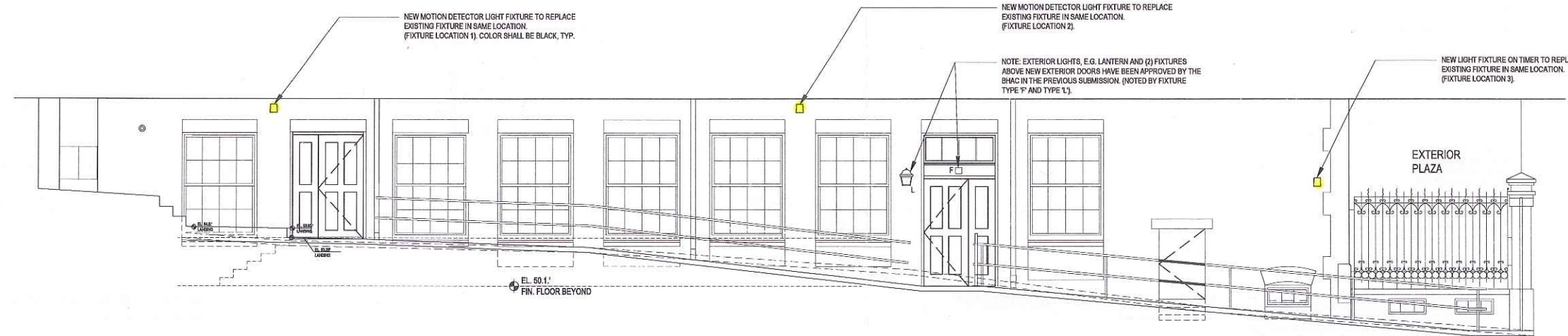
ISSUANCES:  
 SEAL:



**1 NEW PLAN AT EAST ALLEYWAY**  
 Scale: 1/4"=1'-0" @ 24 X 36 PRINT



**2 EXISTING LIGHTING AT VILNA SHUL AT EXTERIOR**  
 Scale: 1/4"=1'-0" @ 24 X 36 PRINT



**3 PROPOSED LIGHTING AT VILNA SHUL AT EXTERIOR**  
 Scale: 1/4"=1'-0" @ 24 X 36 PRINT

NOTE: THIS ELEVATION SHOWS PROPOSED WALL MOUNTED LIGHTING AT EXISTING ELECTRICAL JUNCTION BOX LOCATIONS. NOTE: LIGHTS '1' AND '2' WERE PREVIOUSLY APPROVED BY THE BHAC AND WILL REMAIN. DESIGN INTENT IS TO OBTAIN THE CODE MANDATED 1 FOOT CANDLE OF ILLUMINATION ALONG THE RAMP, WITH ZERO UPLIGHT DESIGN TO MINIMIZE LIGHT POLLUTION. NEW LIGHT FIXTURE MODEL: WL21-3-3K-BL BY TRACELITE.