Alley Lighting Matching Fund
Pride & Resilience Public Realm Project 2020

WEBINAR: SUBMITTING A STRONG LIGHTING PROPOSAL

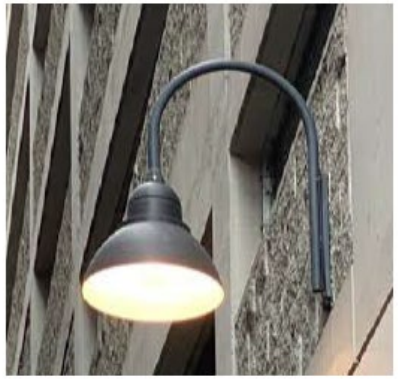
CJ Brockway IALD, MIES
SparkLab Lighting Design, LLC

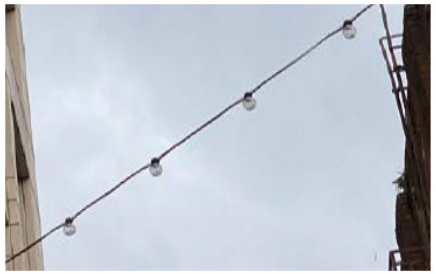
Sara Pizzo
Alliance for Pioneer Square


DO NOT BLOCK

Photo credit: Wayne Buck, Flickr

Pioneer Square Alley Map





Examples of Current Fixtures

ASSESSMENT AND EVALUATION OF LIGHTING IN YOUR ALLEY IS UP TO YOU!

The Alliance for Pioneer Square is pleased to announce the PSQ Alley Lighting Matching Fund.

With $50,000 in funding from Historic South Downtown, we aim to support alley lighting improvements in Pioneer Square.

The PSQ Alley Lighting Matching Fund supports the Alliance's initiative to address critical public safety concerns and make strides toward alley revitalization.

Application - http://allianceforpioneersquare.org/alley-lighting-matching-fund-public-realm-project-2020/

MATCHING FUND DETAILS

The PSQ Alley Lighting Matching Fund will provide funds to property owners for alley lighting improvements. Building tenants who obtain written permission from their property owner are also welcome to apply for funding.

The funding may be used for:

- Purchasing new light fixtures
- Purchasing replacement light fixtures
- Paying for electrician labor costs and wiring equipment
- Buying lighting control gear
- Select maintenance or cleaning service costs where existing products are appropriate for re-use
- Lift rental and installation equipment
- Related site and project specific permit fees

Application - http://allianceforpioneersquare.org/alley-lighting-matching-fund-public-realm-project-2020/

MATCHING FUND DETAILS

Applicants seeking funding may request funds for 50% of project costs (maximum award is $8,000).

The Pride & Resilience Public Realm Working Group will make funding recommendations to the Alliance for Pioneer Square's Board of Directors.

Before funding is released, awardees will be required to obtain all necessary permits, including a Certificate of Approval from the Department of Neighborhoods Pioneer Square Historic District Preservation Board.

GOAL: Project implementation by Early 2021

Application - http://allianceforpioneersquare.org/alley-lighting-matching-fund-public-realm-project-2020/

CERTIFICATE OF APPROVAL
GENERAL INFORMATION + INSTRUCTIONS

WHAT IS A CERTIFICATE OF APPROVAL?
A Certificate of Approval is a written authorization, much like a permit, that must be issued before any changes can be made to the designated feature of a City landmark, or before changes can be made to the external appearance of any building, structure, or site, including the construction of any new building or structure, within the City's eight historic districts. In certain historic districts, a Certificate of Approval is required before making changes to the use of a building or space, or establishing use in a new building, located within that district.

WHAT KIND OF CHANGES REQUIRE A CERTIFICATE OF APPROVAL?
a. Alterations to a building exterior in a district (see individual district Ordinance)
b. Alterations to sites, right-of-way, and public spaces in a district (see individual district Ordinance)
c. Change of use in Pioneer Square Preservation District, International Special Review District and the Pike Place Market Historical District; and, in some cases, changes to business or services provided or changes of ownership for businesses within the Pike Place Market Historical District
d. Alterations to the designated features of a Landmark: this may include a landscape, building exterior, building interiors, structure, or object (see individual landmark Ordinance)

In addition, Certificates of Approval are required for work that normally would not require other permits, such as minor exterior remodeling and painting.

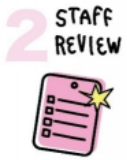
Repair-in-Kind: If the proposed work you want to do involves ONLY repair using the same materials and exact same details and finishes, then a Certificate of Approval is not required. However, the method and scope of work must be reviewed and confirmed as in-kind by the relevant Board/Commission Coordinator prior to undertaking the work.

The Historic Preservation Program can provide more information about the landmark or the historic district where your property is located: (206) 684-0228 / seattle.gov/neighborhoods/preservation

Replace in place fixtures without significant change in appearance?

HOW DO I GET A CERTIFICATE OF APPROVAL AND HOW LONG WILL IT TAKE?
This section is a snapshot of the process for getting a certificate of approval. Language from the Seattle Municipal Code can be found later in this document and provides greater detail about some of these steps.

1. Application submittal: Certificate of Approval applications are submitted via the Seattle Services Portal. Please refer to the application checklist later in this document to ensure that you have gathered the required submittal documents.



2. Staff review of application: Historic Preservation staff review applications to determine whether they are complete—that is, they are looking to see if all the items on the checklist are included and fulfill the code requirements. *Within twenty-eight (28) days of the application being filed,* staff notify the applicant in writing (a letter sent in the mail) whether the application is complete or what additional information is required. If additional information is provided by the applicant, staff notify the applicant in writing *within fourteen (14) days of receipt* whether the application is now complete or what additional information is necessary. Additional information may be requested at other times during this process.

3. Board/Commission Review: Board/Commission Review involves at least one review of a complete application. When reviewing an application, the Board/Commission uses its District / Landmark regulations, guidelines and Secretary of the Interior Standards to evaluate proposals. Depending on the Board/Commission, there will either be a vote on a decision as to whether a Certificate of Approval should be issued, issued with conditions, or denied, OR a vote on a recommendation to the Director of the Department of Neighborhoods as to whether a Certificate of Approval should be issued, issued with conditions, or denied. For larger, more complex applications, Board/Commission reviews and/or briefings may occur during the conceptual, design development and final "working drawings" stages of the project.
Other Reviews or Briefings: Depending on the Board/Commission, proposals may require review by the Architectural/Design Review Committee (ARC) or a Use Review Committee prior to full Board/Commission review.
See District or Landmark pages for Board/Commission meeting schedules.

4. Certificate of Approval Issuance: Typically, a Certificate of Approval will be issued within 28 days following the Board or Commission meeting, assuming no successful appeals have been filed. This 28-day period encompasses a *maximum 14-day period for issuing the decision* and an *exactly 14-day period for appeals*, as required in the code. The decision will be accessible via the Seattle Services Portal.
Appeal: Any interested person may appeal a decision of the Board/Commission to the City Hearing Examiner. Details about this process can be found later in this document.

SCHEDULING FOR BOARD REVIEW
In order to have an application reviewed by the relevant Board or Commission, the application and all required documentation and any applicable fees must be submitted to the Board staff via the Seattle Services Portal. Once the Board/Commission staff has determined that your application is complete, your proposal will be placed on the agenda for review at the Board/Commission's next regularly scheduled meeting. If you do not have the technological access or tools necessary to complete the application online through the Seattle Services Portal, please call 206-684-0228 and you can receive assistance for submitting using a hard copy application form.

https://www.seattle.gov/neighborhoods/event-calendar

Officially the Department of Neighborhoods committee has (28) days to review applications. Potentially, if your application is submitted a couple weeks before the meeting you may be able to get on the agenda.

WEDNESDAY, DECEMBER 16, 2020

EVENT	DATE	LOCATION
Pioneer Square Preservation Board	Dec 16 9am	City Hall 600 4th Avenue Seattle, WA 98124

TUESDAY, DECEMBER 22, 2020

EVENT	DATE	LOCATION
International Special Review District	Dec 22 4:30pm	Hirabayashi Place 442 S. Main St. Seattle, WA 98104

WEDNESDAY, JANUARY 13, 2021

EVENT	DATE	LOCATION
Pioneer Square Preservation Board Architectural Review Committee	Jan 13 9am	City Hall Boards and Commissions Room 600 4th Ave L280 Seattle, WA 98104

WEDNESDAY, FEBRUARY 10, 2021

EVENT	DATE	LOCATION
Pioneer Square Preservation Board Architectural Review Committee	Feb 10 9am	City Hall Boards and Commissions Room 600 4th Ave L280 Seattle, WA 98104

CERTIFICATE OF APPROVAL APPLICATION INSTRUCTIONS

Please read all of the Application Instructions and General Information sections of this document carefully before submitting your Certificate of Approval application through the Seattle Services Portal.

Refer to the checklists below and make sure you have all the relevant required submittal items in electronic format before you begin the online submittal process. Incomplete applications will not be scheduled for Board review. For Board/Commission members to properly act on a Certificate of Approval request, they require an accurate and thorough understanding of the proposal.

If you have questions about the process or what is required to be submitted for your specific proposal, please contact the relevant Board/Commission coordinator.

APPLICATION SUBMITTAL DOCUMENTS CHECKLISTS FOR DESIGN AND/OR USE

DESIGN APPLICATION CHECKLIST

[ ] **Description of Proposed Work ***

- Describe the proposed work and any changes it will make to the landmark/historic district building or property. All items must be included in this application. (Attach additional pages if necessary.)
- For proposals that include demolition of a structure or object:
  - A statement of the reason(s) for demolition
  - A description of the replacement structure or object
- If the proposal includes replacement, removal, or demolition of existing features, a survey of the existing conditions of the features being replaced, removed, or demolished. Please check with Board/Commission staff if you need more detailed instructions.

[ ] **Set of scale drawings with all dimensions shown:**

- A site plan of existing conditions, showing adjacent streets and buildings and a site plan showing proposed changes;*
- A floor plan showing the existing features and a floor plan showing the proposed new features or changes;*
- Elevations and sections of both the proposed new features and the existing features*

  Construction details;
- A landscape plan showing existing features and plantings, and another landscape plan showing proposed site features and plantings.

[ ] **For proposals including new signage, awnings, or exterior lighting please make sure to include the following:**

PRESERVATION BOARD FEEDBACK HAS CONTRIBUTED APPLICATION REQUIREMENTS

Feedback

- No specific guidance to what alley lighting should be like exactly (no prescriptive fixtures)
- Board typically looks for fixtures that are aesthetically pleasing AND functional
- Alliance could make it clear in the application that we are looking for pedestrian friendly lighting opposed to specific lighting for business purposes (making sure lighting proposals are for wall mounted fixtures that span a building's length) as opposed to business sign lighting or a single door light
- Board will look for lighting levels and color of light
    - No specific footcandles or lumens per say
    - Usually they approve LED 3700 lights because they are warm and bright
- Board wants to see fixtures that prevent light pollution
- Board wants to see that applicant has taken height into consideration (not to conflict with vehicles driving through the alley, e.g. garbage trucks)
- Board wants to see fixtures attached to mortar not brick
- Board will want to see how many fixtures and how spread apart they are from each other, to make sure the throw of light is appropriate. Lighting designers can help get this right.
- Alley Lighting Evolution Guidance document is solid set of fixture style examples
- The fixture style preference will vary and need to respond to each building and the immediate surroundings
- Public safety is a compelling justifying point for awardees/applicants to make to the Preservation Board when going for their Certificate of Approval

LIGHTING MAY NOT BE THE WHOLE STORY

TOP 5 ALLEYS

Factors that contributed to an alley feeling **safe**:

- Good lighting for pedestrians
- Clear site lines
- Clean and sanitary
- Planters and public art
- Business operating off the alley (bike store; cafe)

BOTTOM 5 ALLEYS

Factors that contributed to an alley feeling **unsafe**:

- Poor lighting for pedestrians
- Blocked site lines
- Litter and unsanitary
- Lack of amenities
- No business activity

Improved lighting can help, but without holistic improvements may not solve a problem.

COMMENTS FROM SEATTLE POLICE DEPARTMENT

When you're thinking of lighting and safety, here are a few things to keep in mind:

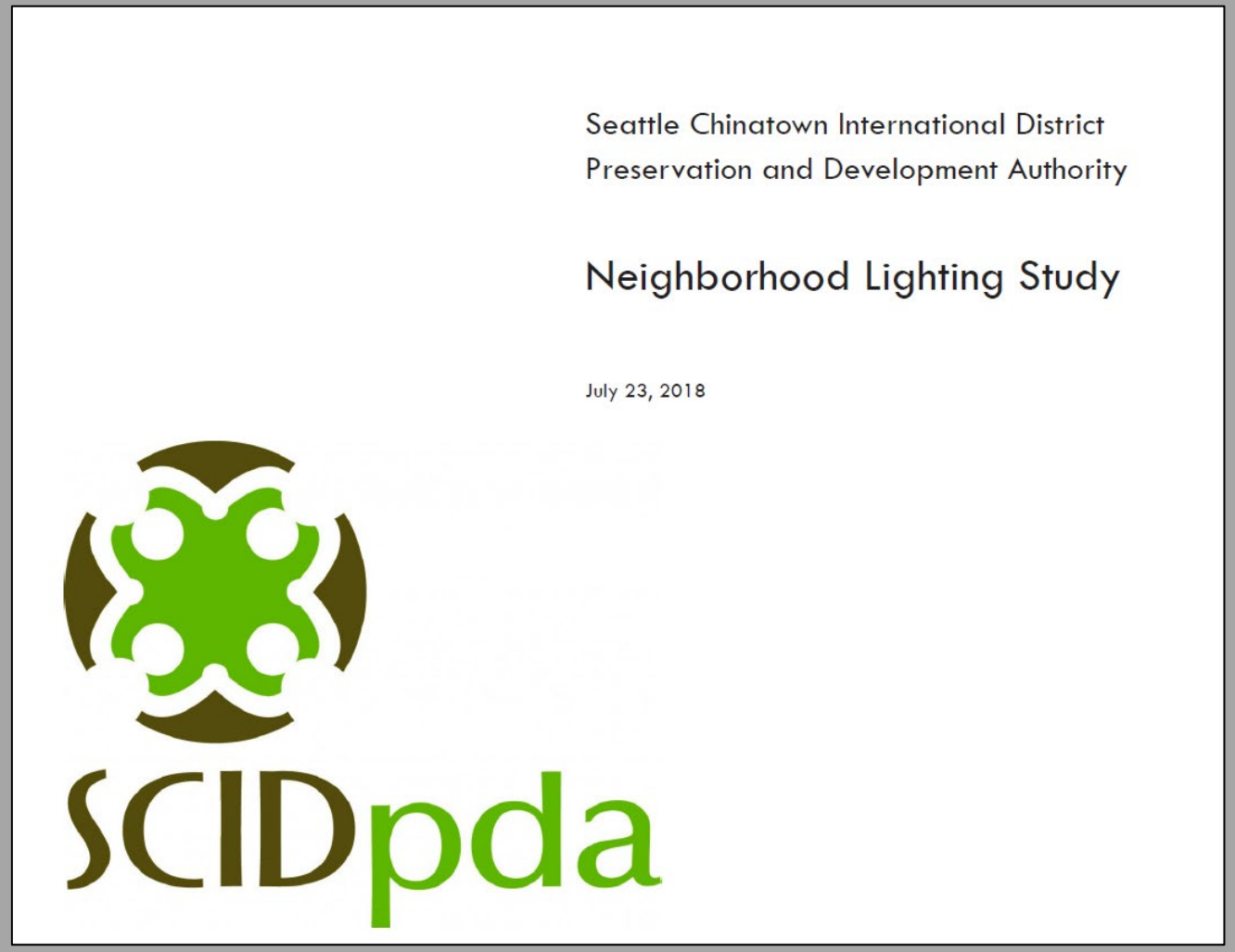
- Lighting helps an individual observe their surroundings and respond to potential threats.
- Pathway or pedestrian connectors should be illuminated to the point where faces of pedestrians can be observed.
- Poor lighting, whether too bright or not bright enough can diminish safety.
- Quality of lighting is as important as the amount of lighting.

Seattle Chinatown International District Neighborhood Lighting Study

What is good neighborhood lighting?

The design of “good lighting” is a subjective and often an elusive treatment of the built environment that balances electrical engineering, architectural design, landscape and urban design, the physics of light, and physiology of human perception.

The impact of lighting relative to safety and security is nuanced; safe passage may refer to ones’ ability to see well enough not to trip, and security can be defined by lighting that contributes to ones’ sense of well-being in a place.



https://scidpda.org/wp/wp-content/uploads/2019/09/small_scidpda-design-vision-and-action-strategy.pdf

LIGHTING SHOULD ENABLE...

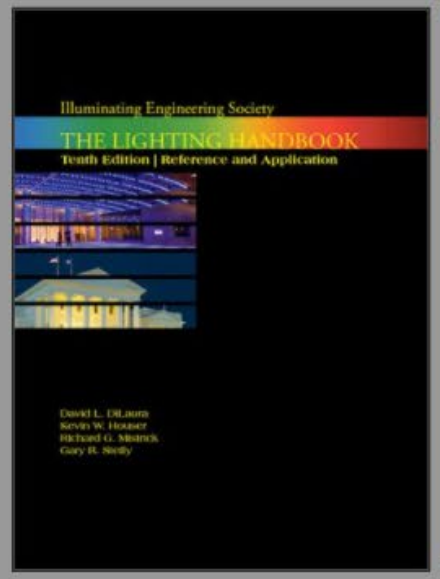
VISUAL ACUITY

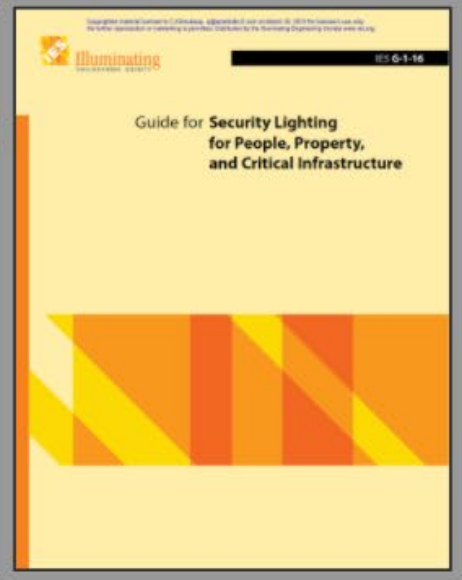
COMFORT

SENSE OF PLACE

Design Tenants

SparkLab has based the design tenants of the study on best practices from the Illuminating Engineering Society Lighting Handbook, 10th Edition, and IES G-1-16 Guide for Security Lighting for People, Property, and Critical Infrastructure.



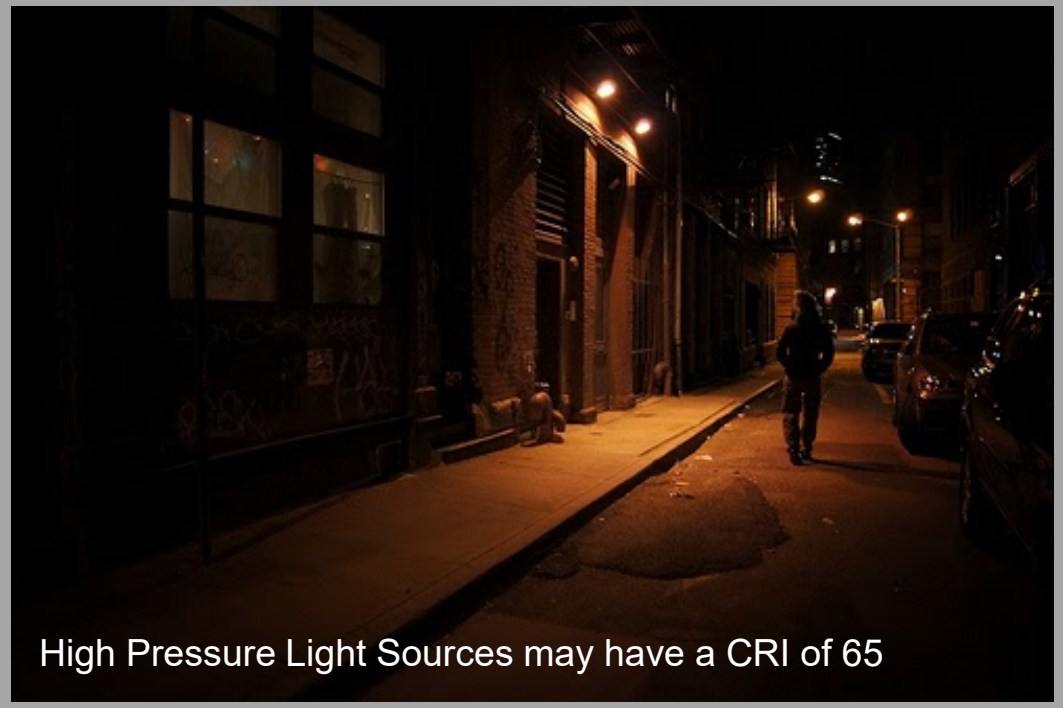


LIGHTING SHOULD ENABLE…

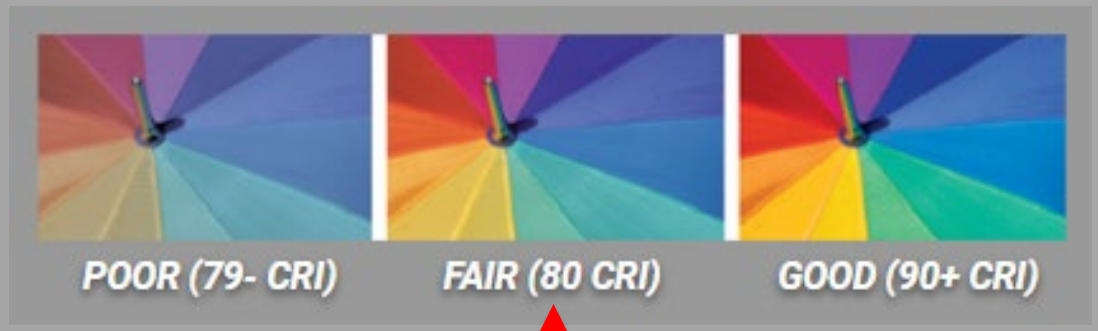
VISUAL ACUITY

Visual Acuity

- Faces should be identifiable from 30’ away.
- Accurate color rendering makes it easier to identify people and objects.
- Uniform distribution of lighting reduces the need for your eye to adjust between bright and dark areas.
- Glare (light shining directly into your eyes) can obstruct your view.



Color Rendering Index – how well does a light source enable us to see colors accurately?



Recommended minimum

LIGHTING SHOULD ENABLE…

COMFORT

Comfort

- The color temperature of a light can influence how a location feels to the user.
- Irritating glare should be avoided.

Historical Preservation Board prefers 3700°K (Kelvin)

LIGHTING SHOULD ENABLE…

SENSE OF PLACE

Sense of Place

- Landmarks should be well lit and prominent at night.
- Repeated decorative elements enhance community identity.
- Colorful awnings, colored light and signage can add visual excitement.
- Consistent color temperature of white light throughout the entire neighborhood enhances feeling of unity.

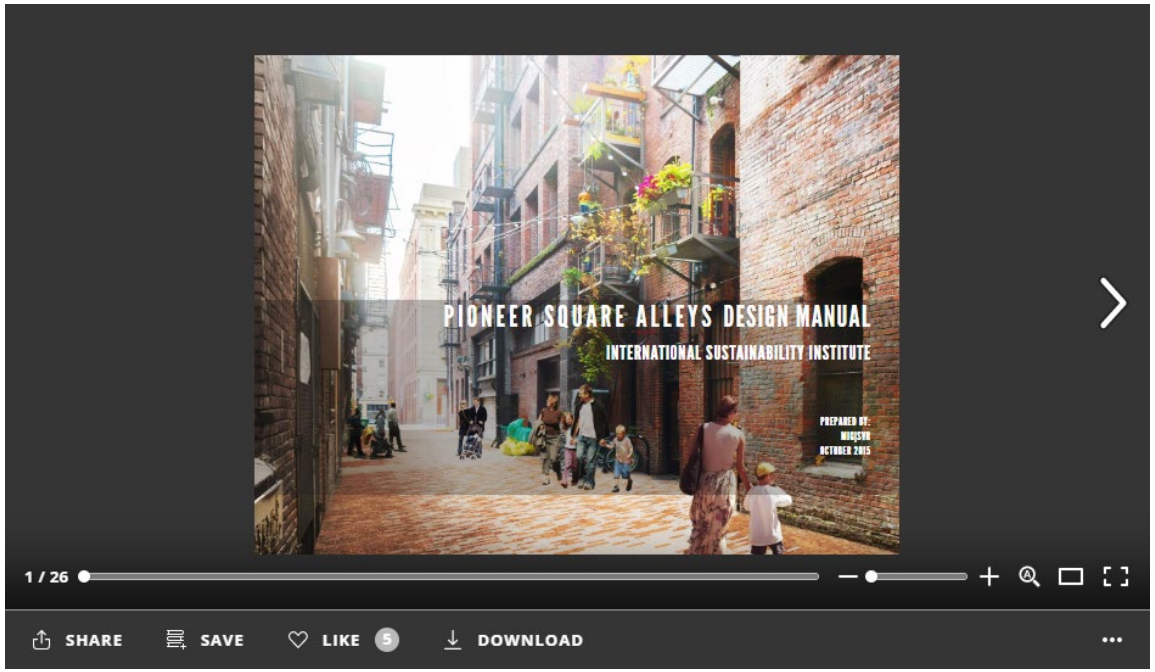
The C-ID streetlights are 3500°K

Many residential streetlights have been changed to 3000°K from 4800°K (moonlight)

DESIGN IDEAS

Pioneer Square Alleys Design Manual - https://issuu.com/pioneersquareseattle/docs/alley_designs

Lighting Evolution Guidance - http://allianceforpioneersquare.org/wp/wp-content/uploads/2016/01/2014-Pioneer-Square-Alley-Lighting-Guidance.pdf



PIONEER SQUARE ALLEYS | LIGHTING EVOLUTION GUIDANCE

Rendering by Olson Kundig Architects

As Pioneer Square's alleys transform into pedestrian-friendly spaces, an adaptable, evolutionary approach to lighting will increase safety and help empower owners and tenants. These preliminary guidelines provide a framework. Each site has its own needs, and these options should be tested and studied.

1 | EMPHASIZE ASSETS. From arching windows to arcane hardware, Pioneer Square's alleys are filled with architectural details found nowhere else in Seattle. A variety of small, low-impact lighting strategies can emphasize these elements, highlighting the uniqueness of these spaces.

2 | COMPLETE THE ROOM. Using contemporary fiber optics or using Tivoli style lighting similar to those in Nord Alley, these simple interventions create the "ceiling" to the alley room. By tracing a meandering path down the alley, they invite visitors into the alley and provide a more human-scaled experience.

3 | MAKE THE INVITATION. As existing businesses take advantage of the alley and new residents and incubator businesses take root, illuminating the entries to the buildings gives them each a legibility and makes the alleys feel welcoming to new visitors, promoting a virtuous cycle of alley activation.

Finally, as the alleys feel safer and more intentionally illuminated, recent lighting interventions like the wall packs can be removed to create a more charming and creative lighting palette.

This document is intended as a strategy with a series of guidelines rather than a shopping list. The best final solution would come from testing and mockups to figure out what works best for a specific location. Below are a few specific fixtures that are good places to start.

Potential fixture at back entry

ABOLITE RLM STANDARD DOME

Requires an arm to be out away from the building.

https://www.lsicorp.com/lighting/indoor/commercial-lighting/decorative/abolite-led-standard-dome/

LSI ABOLITE WINDSOR SERIES

If figuring out an architectural arm is too complicated in your location, LSI Industries makes this similar one with an arm.

https://texasledlightings.com/product/lsi-abolite-windsor-series/

Potential wall mounted light for accents

IGUZZINI ARGO

https://www.iguzzini.com/bl91/

https://www.bimobject.com/en-us/iguzzini/product/argo-d370mm-wall-mounted

Potential strip lighting for accents


WATERPROOF LED STRIP LIGHTS
http://www.superbrightleds.com/cat/led-accent-lighting/filter/IP_Rating,Weatherproof_IP66,34,945:

Potential cantenary, string lighting

Overhead LED string lighting can be installed into existing outer building hardware and strung between buildings. Work with your electrician for the appropriate product and length.
https://www.sival.com/commercial-grade-light-strings?p=1

Between 1.2 Footcandles (13 Lux)
- 4.0 Footcandles (44 Lux)

Between 0.5 Footcandles (5.5 Lux)
- 0.9 Footcandles (9.9 Lux)

https://lu.mu/

SUBMITTING A STRONG LIGHTING PROPOSAL

See Application Document:

http://allianceforpioneersquare.org/alley-lighting-matching-fund-public-realm-project-2020/

- ***Submit all requested material.***
- ***Obtain a quotation for specific products, including installation and control equipment.***
- ***Have an electrical contractor / electrician provide a quote.***

ALLIANCE FOR PIONEER SQUARE

Project Proposal

This part of the application requests specific information about the proposed alley lighting improvements. Please submit items B. through E. as attachments separate from this form. For large files, use a file transfer site (e.g. wetransfer.com).

***Projects that propose to maintain or clean existing fixtures may skip items C. and D. Projects that involve new light fixtures are required to respond to all items (A. through D).*

A. In words, please provide a narrative description of the proposed lighting improvement. *(How will the project illuminate and activate the alley? How will the project contribute to public safety?)*

B. UPLOAD current photos of the building and neighboring buildings in the alley at night, and during the day.
   a. Include at least one photo of the building/project site during the day. *(Label: Project Site photo_Day)*
   b. Include at least one photo of the building/project site at night. *(Label: Project Site photo_Night)*
   c. Include 1 photo of the alley where the project site is located during the day. *(Label: Alley photo_Day)*
   d. Include at least one photo of the surrounding buildings at night. *(Label: Alley photo_Night)*

C. UPLOAD supporting materials of proposed improvement (e.g. scale drawing with dimensions showing proposed lighting, renderings, elevations, intended lighting plan).
   a. Indicate the quantity of fixtures
   b. Indicate the spacing between fixtures
   c. Indicate fixture mounting heights on the building
   d. Indicate the distance light fixtures protrude into the alley
   e. Indicate proposed method of attachment to building *(note Historic Preservation Board requires installation into mortar not brick).*

D. UPLOAD proposed light fixture cutsheet(s) from the light manufacturer(s).
   a. Indicate the following light fixture parameters for procurement. *(Highlight or mark-up manufacturer cutsheets with the following information and enter in the table below).*

Wattage	
Lumen Output	
Color Temperature	

SUBMITTING A STRONG LIGHTING PROPOSAL

Project Proposal

This part of the application requests specific information about the proposed alley lighting improvements. Please submit items B. through E. as attachments separate from this form. For large files, use a file transfer site (e.g. wetransfer.com).

***Projects that propose to maintain or clean existing fixtures may skip items C. and D. Projects that involve new light fixtures are required to respond to all items (A. through D).*

Create one PDF with all content, if possible, or zipped collection of files.

Include project building address or name in file names

(The Building Address Alley Lighting Application, Example: 123 Main St Alley Lighting Application.PDF).

SUBMITTING A STRONG LIGHTING PROPOSAL

Project Proposal

a. In words, please provide a narrative description of the proposed lighting improvement. (How will the project illuminate and activate the alley? How will the project contribute to public safety?)

Be descriptive.

(e.g. Upgrading the wall sconces with lower glare, warmer color light fixtures will illuminate nearby brick surfaces better and enable improved visibility of faces and clothing colors. Fixtures that spread light sideways instead of just down will allow for improved lighting uniformity.)

SUBMITTING A STRONG LIGHTING PROPOSAL

Project Proposal

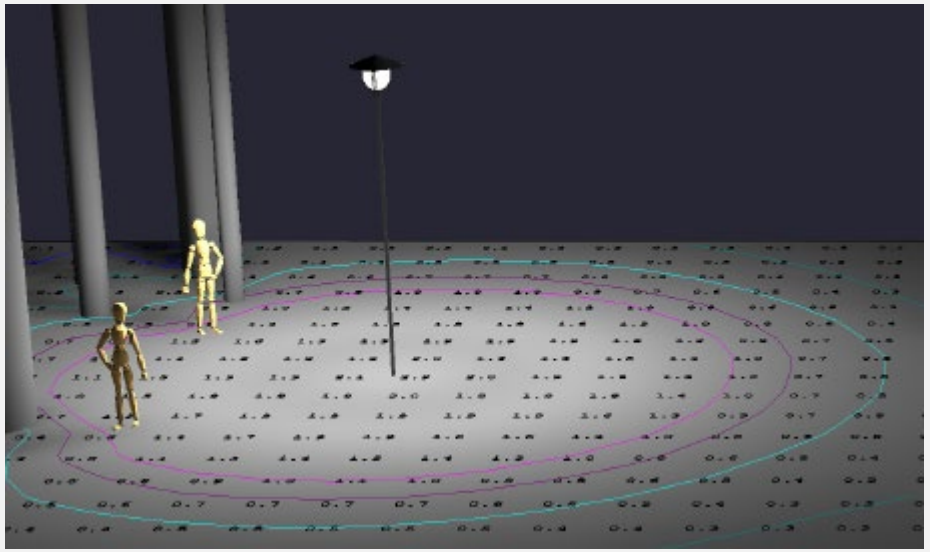
b. UPLOAD current photos of the building and neighboring buildings in the alley at night, and during the day.
   a. Include at least one photo of the building/project site during the day. (Label: Project Site photo_Day)
   b. Include at least one photo of the building/project site at night. (Label: Project Site photo_Night)
   c. Include 1 photo of the alley where the project site is located during the day. (Label: Alley photo_Day)
   d. Include at least one photo of the surrounding buildings at night. (Label: Alley photo_Night)

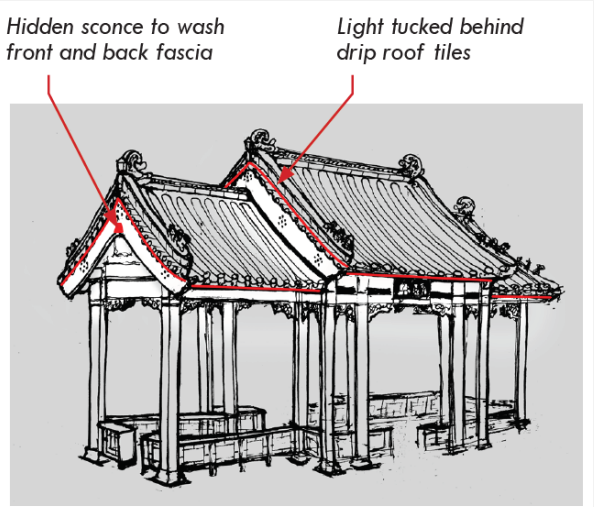
SUBMITTING A STRONG LIGHTING PROPOSAL

Project Proposal

c. UPLOAD supporting materials of proposed improvement (e.g. scale drawing with dimensions showing proposed lighting, **renderings**, elevations, intended lighting plan).
   a. Indicate the quantity of fixtures
   b. Indicate the spacing between fixtures
   c. Indicate fixture mounting heights on the building
   d. Indicate the distance light fixtures protrude into the alley
   e. Indicate proposed method of attachment to building (note Historic Preservation Board requires installation into mortar not brick).

Provide supporting materials.
Show your work!





Markups outlining a potential lighting strategy.

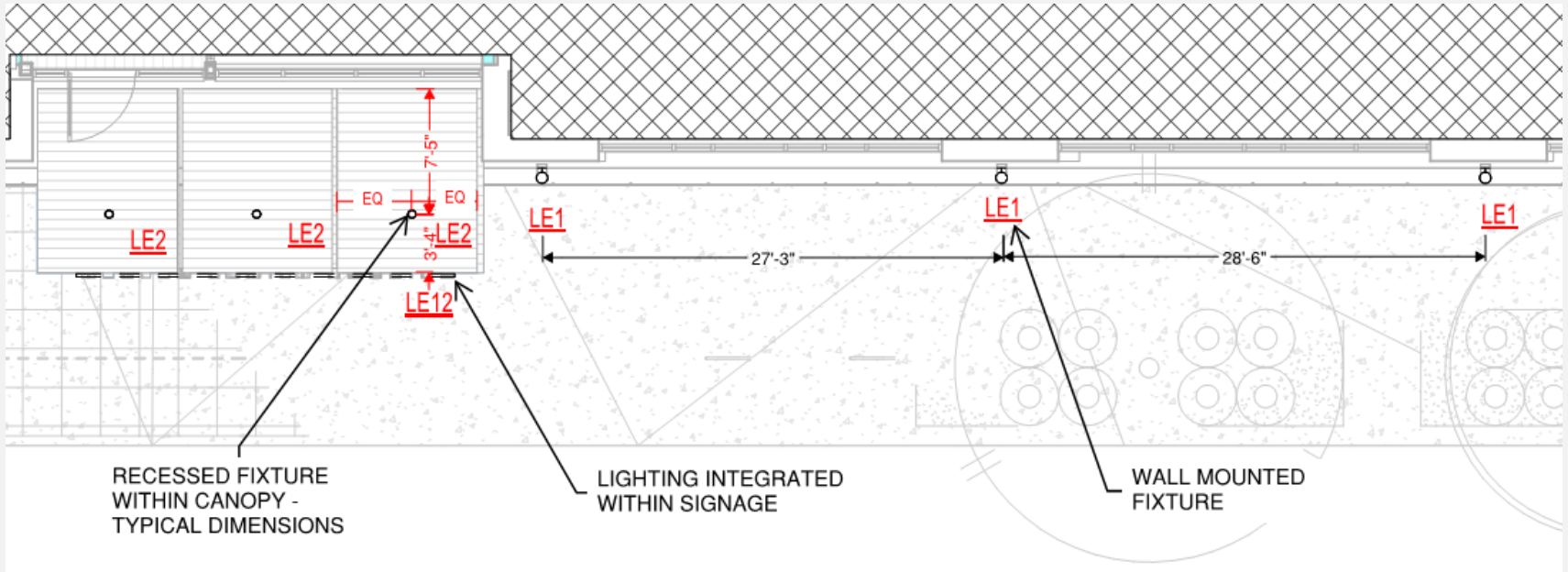
SUBMITTING A STRONG LIGHTING PROPOSAL

Project Proposal

c. UPLOAD supporting materials of proposed improvement (e.g. scale drawing with dimensions showing proposed lighting, renderings, elevations, intended lighting plan).

   a. **Indicate the quantity of fixtures**
   b. **Indicate the spacing between fixtures**
   c. Indicate fixture mounting heights on the building
   d. Indicate the distance light fixtures protrude into the alley
   e. Indicate proposed method of attachment to building (note Historic Preservation Board requires installation into mortar not brick).

Provide a plan view

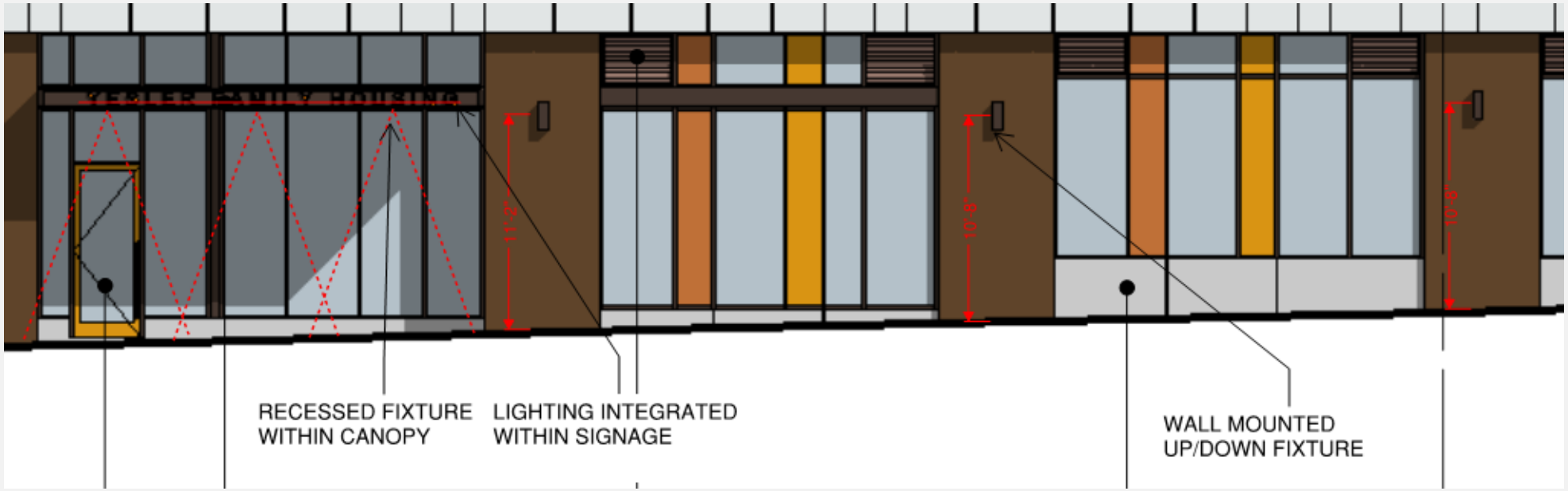


SUBMITTING A STRONG LIGHTING PROPOSAL

Project Proposal

c. UPLOAD supporting materials of proposed improvement (e.g. scale drawing with dimensions showing proposed lighting, renderings, elevations, intended lighting plan).
   a. Indicate the quantity of fixtures
   b. Indicate the spacing between fixtures
   c. Indicate fixture mounting heights on the building
   d. Indicate the distance light fixtures protrude into the alley
   e. Indicate proposed method of attachment to building (note Historic Preservation Board requires installation into mortar not brick).

Provide an elevation view



https://www.seattle.gov/light/policies/docs/III-401%20Sch.%20117%20Alley%20Lighting%20Charges.pdf

Dated Jan. 2014

City of Seattle
Seattle City Light Department

1.0 Policy

1.1 The Department shall install energy efficient rental lighting fixtures in alleys to provide nighttime illumination for security and safety for persons and property.

1.2 Alley lighting fixtures shall be installed on building walls or on existing Department poles. Only commercial areas with existing buildings are eligible for wall mounted lighting. Lighting for alleys adjacent to new buildings shall be addressed during the new building development as required by Seattle Department of Planning and Development.

1.3 For any installations on building walls, the following conditions must be met:

1.3.1 The customer shall obtain written approval from the building owner(s) or agent. Written approval must be provided to Seattle City Light upon application for service.

1.3.2 The wall shall be within the boundaries of the adjoining property lines and abut the alley boundary line.

1.3.3 Building wall shall allow for a minimum fixture mounting height of 16 feet.

1.3.4 An unmetered electrical circuit must be readily available on the building wall or the fixture must be positioned so it can be served from the Department's secondary distribution system where available.

1.4 Alley lighting requests shall be accepted for alleys in residential, commercial, business, and historic areas. An HPS 100 Watt historic fixture is available for historic districts only. A 100 Watt HPS cobra head fixture is available for residential areas. In addition to this fixture, commercial and business area alley lighting customers may request 150 Watt, 250 Watt and 400 Watt HPS cobra heads. At the Utilities discretion 200 Watt and 250 Watt HPS wall mounted lights are available.

https://streetsillustrated.seattle.gov/design-standards/clearances/

SEATTLE RIGHT-OF-WAY IMPROVEMENTS MANUAL

Vertical Clearances

From	To	Standard Clearance
Roadway surfaces	Any horizontal projection over named surface	20 feet
Sidewalk surfaces	Any horizontal projection over named surface	8 feet
Roadway surfaces	Bottom of bridge	20 feet
Skybridges	Any horizontal projection under named surface	26 feet
Alley surfaces	Any horizontal projection over named surface	26 feet; exceptions apply
Alley surfaces	Any horizontal projection that extends less than 24" off building face.	16 feet
Bicycle path surfaces	Any horizontal projection over named surface	10 feet

Clearances from Trees

For more information about clearances and trees, including conditions for deviating from the standard clearance listed below due to site constraints; refer to the section on **Street Trees**. Factors to consider for a deviation from the standard required clearances between street trees and utilities may include the depth and age of the pipeline, the possible use of root barriers. Overhead utilities also impact the pruning of trees in Seattle. See **Seattle City Light Construction Standards** for more information.

SUBMITTING A STRONG LIGHTING PROPOSAL

Project Proposal

c. UPLOAD supporting materials of proposed improvement (e.g. scale drawing with dimensions showing proposed lighting, renderings, elevations, intended lighting plan).
   a. Indicate the quantity of fixtures
   b. Indicate the spacing between fixtures
   c. Indicate fixture mounting heights on the building
   d. Indicate the distance light fixtures protrude into the alley
   e. Indicate proposed method of attachment to building (note Historic Preservation Board requires installation into mortar not brick).

https://streetsillustrated.seattle.gov/design-standards/clearances/

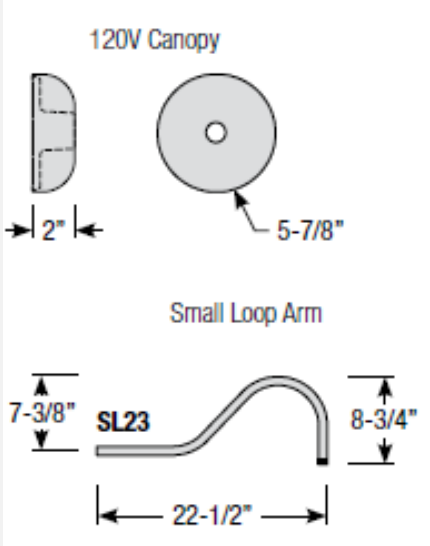
Alley surfaces	Any horizontal projection that extends less than 24" off building face.	16 feet

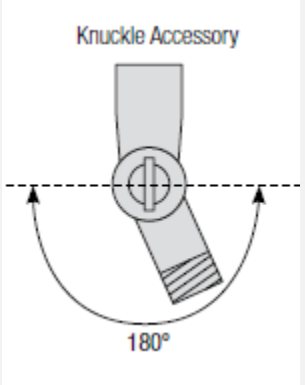
SUBMITTING A STRONG LIGHTING PROPOSAL

Project Proposal

c. UPLOAD supporting materials of proposed improvement (e.g. scale drawing with dimensions showing proposed lighting, renderings, elevations, intended lighting plan).
   a. Indicate the quantity of fixtures
   b. Indicate the spacing between fixtures
   c. Indicate fixture mounting heights on the building
   d. Indicate the distance light fixtures protrude into the alley
   e. Indicate proposed method of attachment to building (note Historic Preservation Board requires installation into mortar not brick).

https://www.seattle.gov/neighborhoods/programs-and-services/historic-preservation/certificate-of-approval





Features rigid conduit and cast wall plate which fits 4" octagonal box (by other).

SUBMITTING A STRONG LIGHTING PROPOSAL

Project Proposal

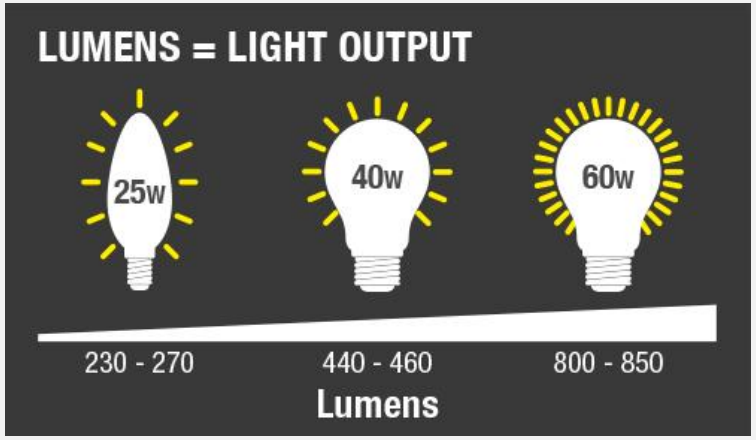
d. UPLOAD proposed light fixture cutsheet(s) from the light manufacturer(s).
   a. Indicate the following light fixture parameters for procurement. (Highlight or mark-up manufacturer cutsheets with the following information and enter in the table below).

Wattage	
Lumen Output	
Color Temperature	
Photometric Distribution	
Shielding or glare control accessories	
Mounting accessories	
Control gear	

LIGHTING TERMINOLOGY

Lumens

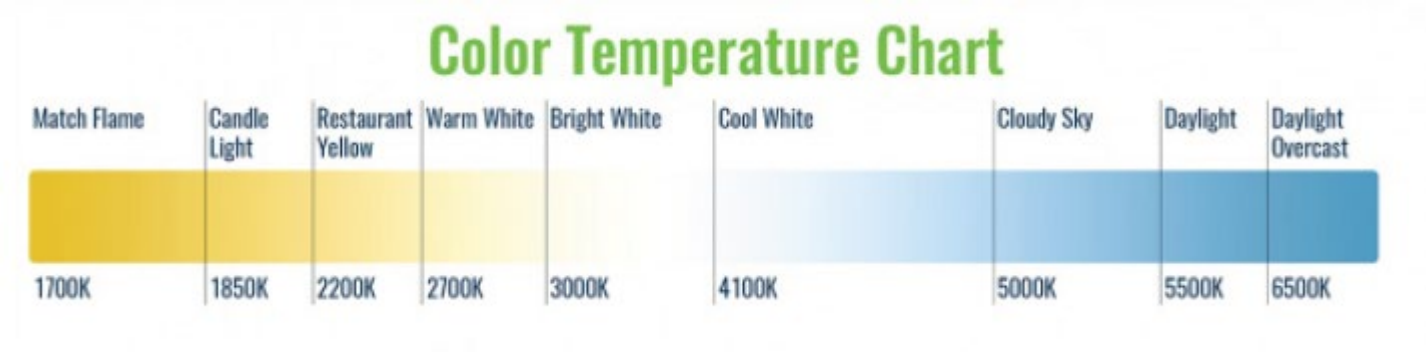
A measure of the total light emitted by a source. SI derived unit of luminous flux (lm).



Wattages of incandescent lamps (light bulbs) for comparison

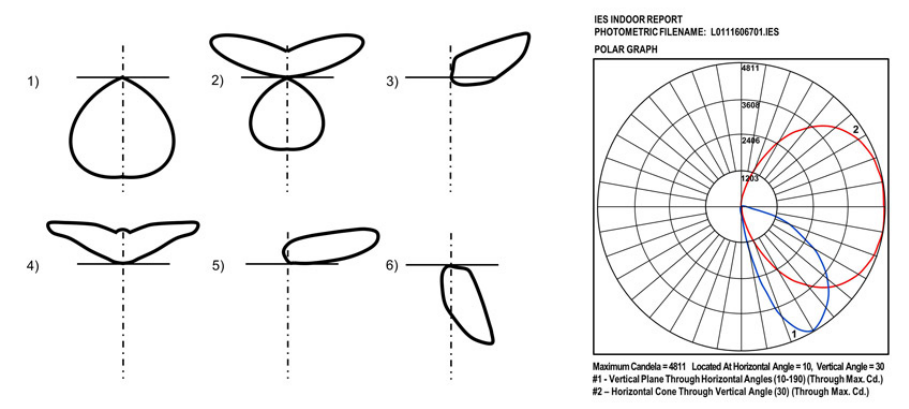
Color Temperature

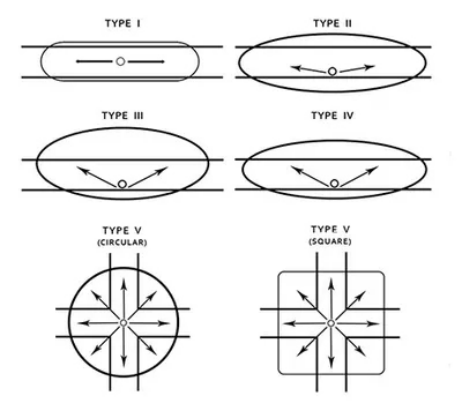
Described in kelvins (°K), a way to describe the color appearance of a light source, measured as compared to a blackbody radiator.



Photometric Distribution

The way that luminous intensity is emitted from the fixture – may be shown in a polar luminous intensity graph





https://www.lrc.rpi.edu/programs/NLPIP/glossary.asp

ARCHETYPE

Aluminum Shade
with Glass and Guard Options

Catalog #:
Project: Type:
Date: Notes:

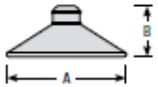
Electrical
- 120V input (277V available in arm and post option only)
- Integrated power supply allows the fixture to be connected directly into line voltage
- Pre-wired and ready for install
- LED is dimmable with Incandescent/Triac dimmers

Mounting
- 1/2" or 3/4" IP for arms. Flush mount, stems and post available only in 1/2"
- 9' Pendant cord available in black or white cord (includes 5" canopy with the same finish as the shade)

Finishes
- Shade and mounting finish options
- Available in 21 standard and 2 specialty finishes with optional coastal coating to protect finish in coastal environments (add "-C" to the finish)
- Inner shade is painted gloss white
- Consult factory for custom finish options

Optional Accessories
- Glass, Cast Guard or Wire Cage options available

Listing
UL listed to US and Canadian standards for wet locations



	A	B
AR14	14"	6"
AR16	16"	6"

Archetype Order Matrix (Example: AR16MTBZ-CDWC-3)

Diameter	Lamp / LED	Finish	Coastal Coating Option	Accessories	Mounting Type
◉ AR14 (14")	☐ M (Medium Base, 100W max.)	☐ ABL (Aegean Blue)	☐ (blank) (No coating)	☐ (blank) (No accessories)	☐ -2 (1/2" IP)
☐ AR16 (16")	☐ GU24[1,3] (13W GU24 / 2700K)	☐ BB (Burnished Bronze)	◉ -C (Coating)	☐ -CG (Clear Glass)	◉ -3 (3/4" IP)
	☐ GU24[1,3] (18W GU24 / 2700K)	☐ BK (Gloss Black)		☐ -FG (Frosted Glass)	☐ -B (Black Cord Pendant)
	☐ GU24[1,3] (26W GU24 / 2700K)	☐ BLU (Blue)		☐ -OG (Opal Glass)	☐ -W (White Cord Pendant)
	☐ GU24[1,2,3] (32W GU24 / 2700K)	☐ DVG (Dove Gray)		☐ -CGG (Clear Glass w/ Cast Guard)	☐ -F (Flush Mount)
	☐ GU24[1,2,3] (42W GU24 / 2700K)	☐ FLG (Flannel Gray)		☐ -FGG (Frosted Glass w/ Cast Guard)	
	☐ LED1227[1,4] (12W LED / 2700K / 90 CRI / 844lm)	☐ GA (Galvanized)		☐ -OGG (Opal Glass w/ Cast Guard)	
	◉ LED1230[1,4] (12W LED / 3000K / 90 CRI / 861lm)	☐ LG (Lime Green)		☐ -CGWC (Clear Glass w/ Wire Cage)	
	☐ LED1235[1,4] (12W LED / 3500K / 90 CRI / 872lm)	☐ MB (Matte Black)		☐ -FGWC (Frosted Glass w/ Wire Cage)	
	☐ LED1240[1,4] (12W LED / 4000K / 90 CRI / 889lm)	☐ MBL (Midnight Blue)		☐ -OGWC (Opal Glass w/ Wire Cage)	
	☐ LED1827[1,4] (18W LED / 2700K / 90 CRI / 1265lm)	☐ PNA (Painted Natural Aluminum)			
	☐ LED1830[1,4] (18W LED / 3000K / 90 CRI / 1288lm)	☐ PNC (Painted Natural Copper)			
	☐ LED1835[1,4] (18W LED / 3500K / 90 CRI / 1311lm)	☐ RD (Red)			
	☐ LED1840[1,4] (18W LED / 4000K / 90 CRI / 1334lm)	☐ SA (Satin Aluminum)			
		☐ SGR (Sage Green)			
		☐ SGW (Semi Gloss White)			
		☐ SND (Sand)			
		☐ SS (Satin Silver)			
		◉ TBZ (Textured Bronze)			
		☐ TGF (Textured Graphite)			
		☐ TNG (Tangerine)			
		☐ TTL (Tahitian Teal)			
		☐ WT (Gloss White)			

1. Lamps must be specified, and are not included in shade cost
2. Not for use in glass/cast guard/wire cage
3. Glass enclosure must be specified
4. Lumens are new LED value
5. Satin aluminum cannot be coated

KEY: Standard Finishes

ABL (Aegean Blue), BB (Burnished Bronze), BK (Gloss Black), BLU (Blue), DVG (Dove Gray), FLG (Flannel Gray), LG (Lime Green), MB (Matte Black), MBL (Midnight Blue), PNA (Painted Natural Aluminum), PNC (Painted Natural Copper), RD (Red), SGR (Sage Green), SGW (Semi Gloss White), SND (Sand), SS (Satin Silver), TBZ (Textured Bronze), TGP (Textured Graphite), TNG (Tangerine), TTL (Tahitian Teal), WT (Gloss White)

Specialty Finishes

GA (Galvanized), SA (Satin Aluminum)

14508 Nelson Ave. City of Industry, CA 91744 • tel: 626.336.4511 • fax: 626.330.4266 • www.TroyRLM.com

See marked-up cutsheet PDF

Wattage	12 Watts
Lumen Output	861 lumens
Color Temperature	3000K
Photometric Distribution	Opal Glass
Shielding or glare control accessories	Shade and Cast Guard
Mounting accessories	¾" IP with small loop 23" arm
Control gear	Remote photosensor

Controls (photosensors, timers, etc.) may be separate from fixture. Your electrical contractor will have suggestions. Confirm placement.

Note, there are many "RLM" (Reflector Luminaire Manufacturers) other than Troy

http://www.troyrlm.com/

EXAMPLE MANUFACTURERS

https://www.bega-us.com/categories/exterior/wall

https://www.sistemalux.com/view-all-exteriors

https://www.speclight.com/c11/RLM-Classics.htm

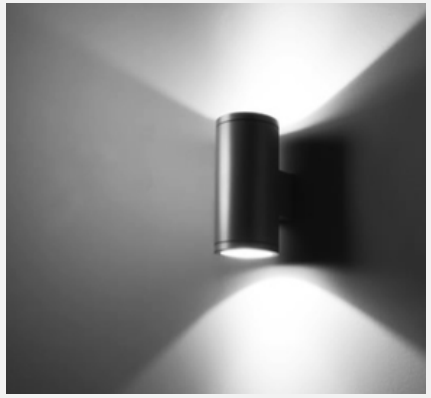
http://www.canlet.com/lightingproducts.php

https://www.phoenixlighting.com/products/metallic-led-vp-series-vaporproof-fixture

http://teganlighting.com/index.php/products/exton-ip65









Additional Project Questions

These questions are intended to provide information about project implementation, the impact lighting improvements will have on the surrounding environment and community, as well as plans for maintaining lighting improvements once installed.

1. Who will install the proposed light fixtures or perform maintenance/cleaning services?
2. What equipment will be necessary to implement the project?
3. Will proposed lighting improvements be climb-able? Could your project be perceived as a safety hazard?
4. How does the project proposal address light pollution concerns?
5. How will fixtures be controlled on a nightly basis *(i.e. timer, photocells, etc.)*?
6. What is the plan for maintaining the lighting improvements?
7. Who will be responsible for maintaining the proposed light fixtures?

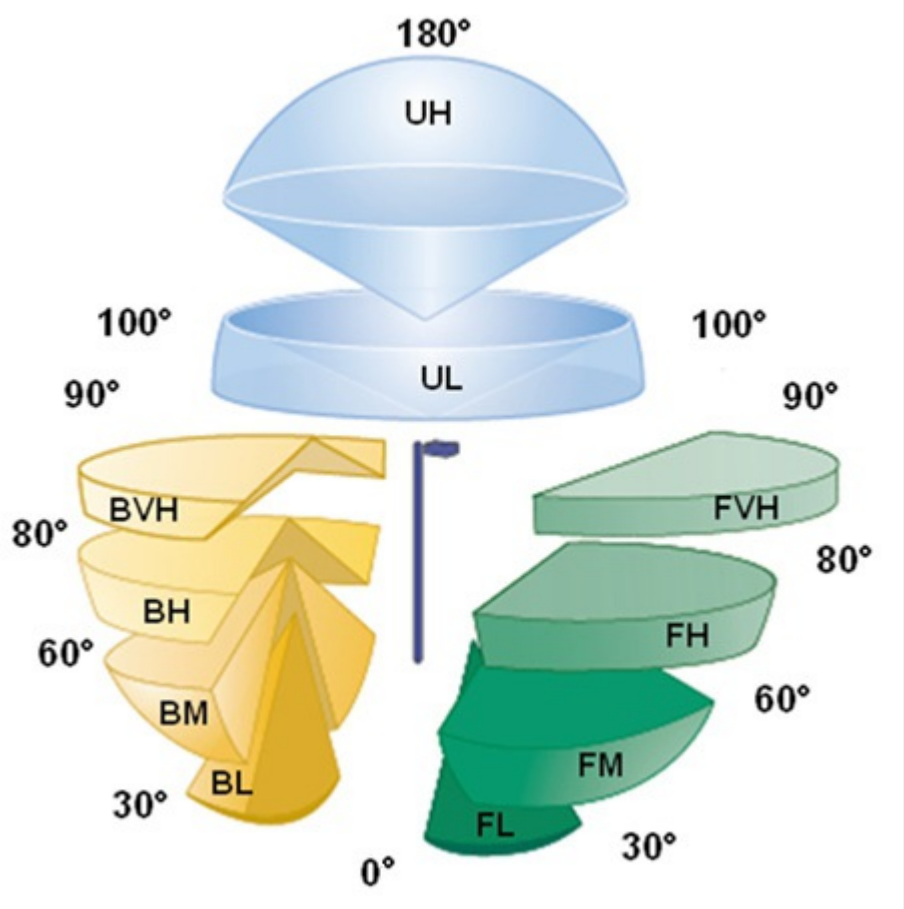
Lifts? Electrical infrastructure?

12'? Garbage bin underneath?

Too much light? Light "trespass"?

Most consider light pollution to be the elimination of "uplight".

Dark-sky friendly fixtures are thought to be "shielded"



Copyright 2005! - "Dark-sky-friendly" fixtures

https://www.darksky.org/light-pollution/

TOO MUCH LIGHT? LIGHT "TRESPASS"?

- *Sometimes sidelight is helpful, especially in a dark alley.*
- *Downlights mounted up high (i.e. above 16') are inevitably sources of glare.*
- *Lower output fixtures spaced more frequently may be less obtrusive than fewer higher-output ones.*
- *Reminder to talk to your neighbor. What helps you may help them too.*
- *Consider light trespass – light escaping your property. Will there be alley-facing windows impacted by the lighting?*
- *Does the strategy help "activate" your alley from a creative perspective?*

Photo credit: Wayne Buck, Flickr

Max Zorn
https://www.youtube.com/watch?time_continue=55&v=ggoseOLlkrc&feature=emb_logo&ab_channel=maxzorn

Additional Project Questions

These questions are intended to provide information about project implementation, the impact lighting improvements will have on the surrounding environment and community, as well as plans for maintaining lighting improvements once installed.

1. Who will install the proposed light fixtures or perform maintenance/cleaning services?
2. What equipment will be necessary to implement the project?
3. Will proposed lighting improvements be climb-able? Could your project be perceived as a safety hazard?
4. How does the project proposal address light pollution concerns?
5. How will fixtures be controlled on a nightly basis *(i.e. timer, photocells, etc.)*?
6. What is the plan for maintaining the lighting improvements?
7. Who will be responsible for maintaining the proposed light fixtures?

Integrated vs. remote controls?

50,000 hours = 17 years when on 8 hours/night. Manufacturers warranty 5 years. Parts will fail!

Project Costs and Requirements

Please share information regarding how much the proposed project will cost and the funding amount being requested from the Alliance for Pioneer Square. This section of the application also requires demonstration of property owner permission and a commitment to obtain a Pioneer Square Historic Preservation Certificate of Approval.

How much funding is being requested? *(this should be a dollar amount)* *Note: This should be 50% of project costs, at a maximum of $8,000).* **Please indicate proof of determination of project costs.*	Total Project Cost *(includes all costs including products, equipment, labor, etc.)*: Funding Request Amount:
Are Puget Sound Energy rebates an option for the proposed lighting products? *(Yes/No/Unsure)*	
If you are not the property owner, do you have written property owner permission? *Yes/No*	*(submit document as an attachment)*
If the project requires infrastructural coordination with neighboring buildings, please upload written permission from neighboring property owners? *Yes/No* **This question only applies to applications that propose improvements on multiple buildings with multiple owners.*	*(submit document as an attachment)*

https://www.pse.com/rebates/find-a-contractor

https://www.pse.com/rebates/business-incentives/commercial-retrofit-grants

WHERE TO PROCURE LIGHTING?

Participating Distributors in PSE Rebate Program
https://www.pse.com/rebates/business-incentives/commercial-lighting/lighting-to-go

Most electrical distributors will do “over the counter” sales with a credit card to end users, however electrical contractors may obtain better pricing and may have pre-existing wholesale accounts and relationships.

Note, Home Depot and Lowe’s are not on this list.

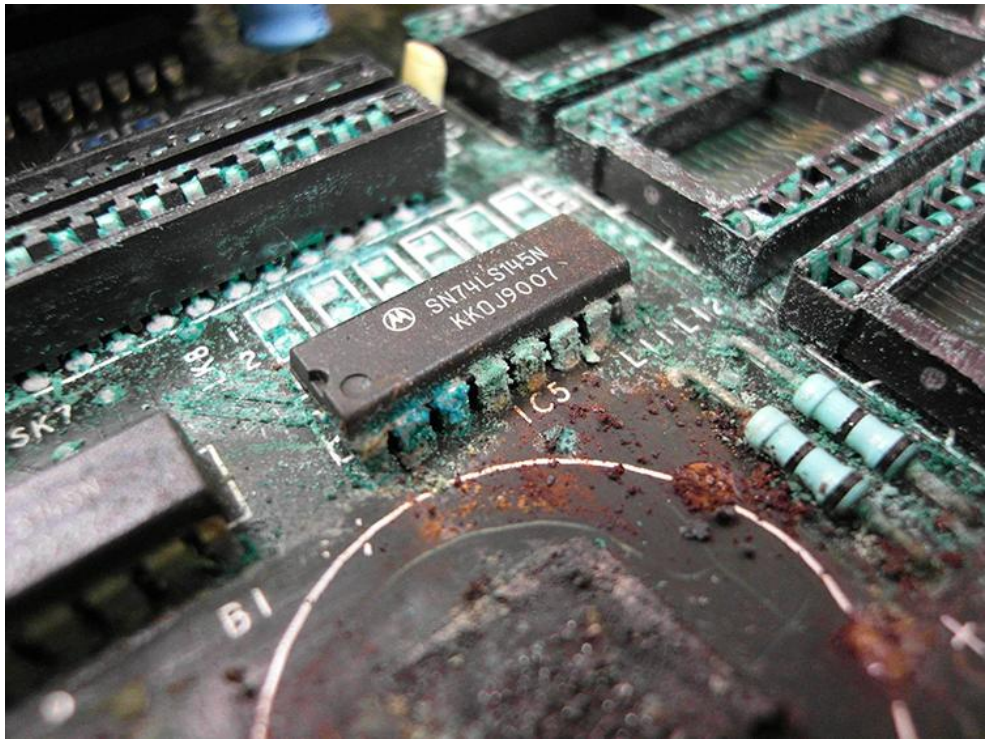
KING COUNTY		
BUSINESS	ADDRESS	PHONE/WEBSITE
All-Phase Electric Supply - Kirkland	11824 N.E. 112th St. Kirkland, WA 98033	425-821-3223 apekirkland.shopced.com
Batteries Plus Bulbs - Bellevue	14917 NE 20th St. Bellevue, WA 98007	425-562-5000 batteriesplus.com
Batteries Plus Bulbs - Tukwila	17065 Southcenter Pkwy Tukwila, WA 98188	206-575-7539 batteriesplus.com
Batteries Plus Bulbs - Federal Way	31830 Pacific Hwy South Federal Way, WA 98003	253-666-9898 batteriesplus.com
CED - Auburn	4826 B St. N.W. #105 Auburn, WA 98001	253-852-5454 auburnced.portalced.com
CED Kent	20730 72nd Ave. S. Kent, WA 98032	253-893-7333 auburnced.shopced.com
CED - Seattle	660 S. Andover St. Seattle, WA 98108	253-852-5454 cednw.com
Grainger - Tukwila	725 S. Todd Blvd. Tukwila, WA 98188	800-472-4643 grainger.com
Graybar - Seattle	1919 Sixth Ave. S. Seattle, WA 98134	206-292-4848 graybar.com
HD Supply	20625 59th Place S. Kent, WA 98032	800-431-3000 hdsupplysolutions.com
North Coast Electric - Bellevue	13400 N.E. 16th St. Bellevue, WA 98005	425-641-3400 northcoastelectric.com
North Coast Electric - Kent	23206 66th Ave. S. Kent, WA 98032	253-981-6730 northcoastelectric.com
Pacific Lamp & Supply	5935 Fourth Ave. S. Seattle, WA 98108	206-767-5334 pacificlamp.com
Platt Electric - Auburn	2101 R St. N.W. Auburn, WA 98001	253-939-2616 platt.com
Platt Electric - Bellevue	2021 130th Ave. N.E. Bellevue, WA 98005	425-895-9050 platt.com
Platt Electric - Enumclaw/Buckley	28820 Highway 410 E. Buckley, WA 98321	360-829-6495 platt.com
Platt Electric - Issaquah/Preston	30200 S.E. 79th St. Issaquah, WA 98027	425-222-0729 platt.com
Platt Electric - Kent	7604 S. 212th St. Kent, WA 98032	253-872-5555 platt.com
Platt Electric - Renton	801 Houser Way N. Renton, WA 98055	425-228-7506 platt.com
Stoneway Electric - Kent	7011 S. 234th St. Kent, WA 98032	253-859-0224 stoneway.com
Stoneway Electric - South Seattle	1924 Fourth Ave. S. Seattle, WA 98134	206-447-8058 stoneway.com
Stoneway Electric - Totem Lake	13424 N.E. 126th Place Kirkland, WA 98034	425-821-9879 stoneway.com
Stusser Electric - Kent	21520 84th Pl. S. Kent, WA 98031	253-395-3133 stusser.shopced.com

PRODUCT DURABILITY AND LONGEVITY

Protect against failure of sensitive electronics
- Use trusted manufacturers products with known testing procedures

Protect against material corrosion
- Use products with ability to withstand corrosive sea air, known metals, protective marine-paint coatings (e.g. nickel acid wash), stainless steel fasteners (316)

Ingress Protection Rating – minimum IP65
- Totally dust tight, full protection against dust and other particulates, including a vacuum seal, tested against continuous airflow
- Protection against low-pressure jets (6.3 mm) of directed water from any angle (limited ingress permitted with no harmful effects).



Pioneer Square Alleys are in a marine air environment

HELPFUL LINKS

Lighting Design Lab
https://www.lightingdesignlab.com/

Seattle City Light
https://energysolutions.seattle.gov/your-business/new-construction/incentives-and-technical-support/

Puget Sound Energy
https://www.pse.com/rebates/business-incentives/commercial-lighting

APPLICATION DEADLINES

Applications open on September 28, 2020 and will be accepted through November 6, 2020 at 11:59pm.

Applicants are encouraged to **submit a draft application no later than October 23, 2020** for an optional review and opportunity to receive feedback prior to final submissions due on November 6, 2020 (this is not required, only recommended).

The Pride & Resilience Public Realm Working Group will make funding recommendations to the Alliance for Pioneer Square's Board of Directors.

Applicants can expect funding decisions by November 30, 2020.

Important Dates

September 28 - Alley Lighting Matching Fund application opens

October 1- Informational Webinar

October 23 - Draft application is due to sara@pioneersquare.org for feedback (optional)

November 6 - Applications are due at 11:59 PM

November 30 - Funding decisions expected (pending all permits and approvals)

Application - http://allianceforpioneersquare.org/alley-lighting-matching-fund-public-realm-project-2020/

Thank you for attending!

CJ Brockway IALD, MIES
SparkLab Lighting Design, LLC
cj@sparklabLD.com
www.sparklabLD.com
206.566.7222

Sara Pizzo
Alliance for Pioneer Square
sara@pioneersquare.org
http://allianceforpioneersquare.org/