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Eastsound Lighting: DRAFT

Dark Sky Standards Integration
And Public Lighting Selection

Light Pollution in Eastsound Today

- The existing regulations are close to being in synch with what the International Dark Sky guidelines were 30 years ago, before the advent of LED/high efficiency lighting of today. But, our regs are vague and sometimes hard to enforce.
- Eastsound is producing much more light pollution than ever before. This is because high output lighting is cheaper than ever and the public either doesn't know what the code is or figures no one is going to enforce the county code or even the building code.

International Dark Sky Guidelines

Dark Sky guidelines are primarily about:

1. Not wasting light/energy
2. Lighting things we do need in ways that don't let light escape into the sky
3. Lighting with wavelengths and intensities that don't harm us and wildlife

Updating Dark Sky Requirements - Commercial

- Exterior lighting, including fixtures in parking areas and signage lights, shall be fully shielded, directed downward at an angle of 60 degrees or less so, all light is contained within the boundaries of the parcel, not “trespassing” to adjoining properties and public rights-of-way. Alternatively, lighting recessed under roof eaves/enclosures may be angled upward only if direct glare and bright reflections are entirely contained within the eave/enclosure.
- Decorative lighting/holiday lighting shall be limited to a 250 lumens or less per lamp/bulb/diode, equivalent to a 25Watt per incandescent bulb, an 8Watt compact fluorescent bulb, or a 6.5Watt LED “bulb”. If decorative lighting bulbs are brighter than 250 lumens, they must be shielded, angled downward at 60 degrees or less and not shine beyond the property line, like any other exterior light fixture. Times of year
- All Exterior lighting shall have a color temperature 3000 degrees or less, preferably 2700 degrees.

Updating Dark Sky Requirements – Continued Residential

- Residential Lighting requirements are the same as non-residential requirements with the exception/addition that one low level ambient light fixture mounted under each porch or entry eave which otherwise blocks light from shining upward may be unshielded if they emit 500 lumens or less, equivalent to a 40w incandescent bulb/a 10w compact fluorescent bulb/or 9w LED “bulb”.

Recommendations to Reduce Light Pollution

- Reduce unnecessary lighting fixtures and decrease the brightness of needed lighting.
- Use light fixtures approved by the International Dark Sky Association.
- Shield all lighting, including ambient lights and temporary work lights to aim light downward.
- If possible install smart switches or fixtures which will dim or turn off lights between 11pm and 6am including decorative/holiday lighting.

Prohibited Lighting

- No lighting mounted higher than the peak of the building being served or no higher than 20 feet if no buildings are present, preferably lower.
- No mercury vapor lighting.
- No lighting of any kind visible from the property line that blinks, flashes, rotates, or of unusually high intensity or brightness.

Getting Residents on Board

- Once the county regulations are updated, we need to include thought leaders, store owners, builders and locals in a plans to move toward compliance.
- Celebrating compliant buildings and stores, and publicizing successful transitions from non-compliant to compliant, non-polluting lighting with articles in the paper.
- Conversations with particular owners about the code and the benefits of adopting it.

Starting with Prune Alley

- A huge opportunity to start the conversation will be the upcoming Prune Alley Streetscape project, where IDA approved bollard and overhead corner lighting should/will be used.
- Counter Engineer Colin Huntmer is in full support of using efficient IDA-approved designs that Eastsound wants.
- Charging stations at some light locations? Per Yonatan from OPALCO says they could be added as Prune Alley is built out. Ask Jon Orr, Dan Vekved, and Rick Christmas.

Options for businesses to retrofit existing polluting lights



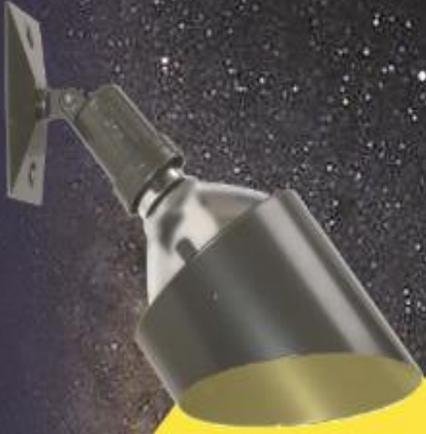
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Trespass
Sky glow

The dark sky friendly shield for PAR bulbs

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Controls glare
Reduces light trespass
Directs light where you need it

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It's time to select the lighting fixture models
for Eastsound

Bollards

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Bollard Lighting Possibilities Landscape Forms - Ashbery



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Bollard Lighting Possibilities Landscape Forms - Hawthorne



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Bollard Lighting Possibilities

Volt – Modernelle Cast Brass



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Bollard Lighting Possibilities

AuroraLight - Hermosa



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Bollard Lighting Possibilities Ligman– Benton Round



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Bollard Lighting Possibilities

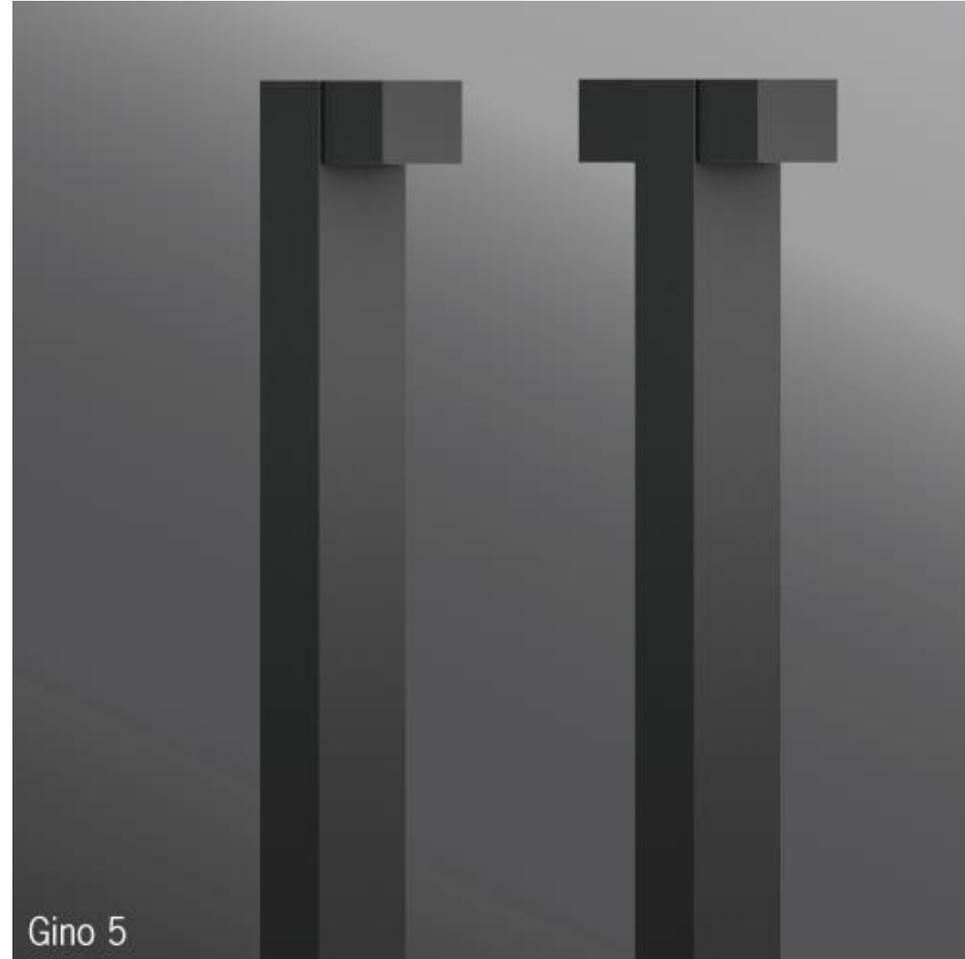
Selia - Exelia



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Bollard Lighting Possibilities

Ligman - Gino



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Bollard Lighting Possibilities

AAL - Kick



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Bollard Lighting Possibilities Kim - Pavilion



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Bollard Lighting Possibilities

Kim – Pavilion Square



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Bollard Lighting Possibilities

Luminaire - Premier



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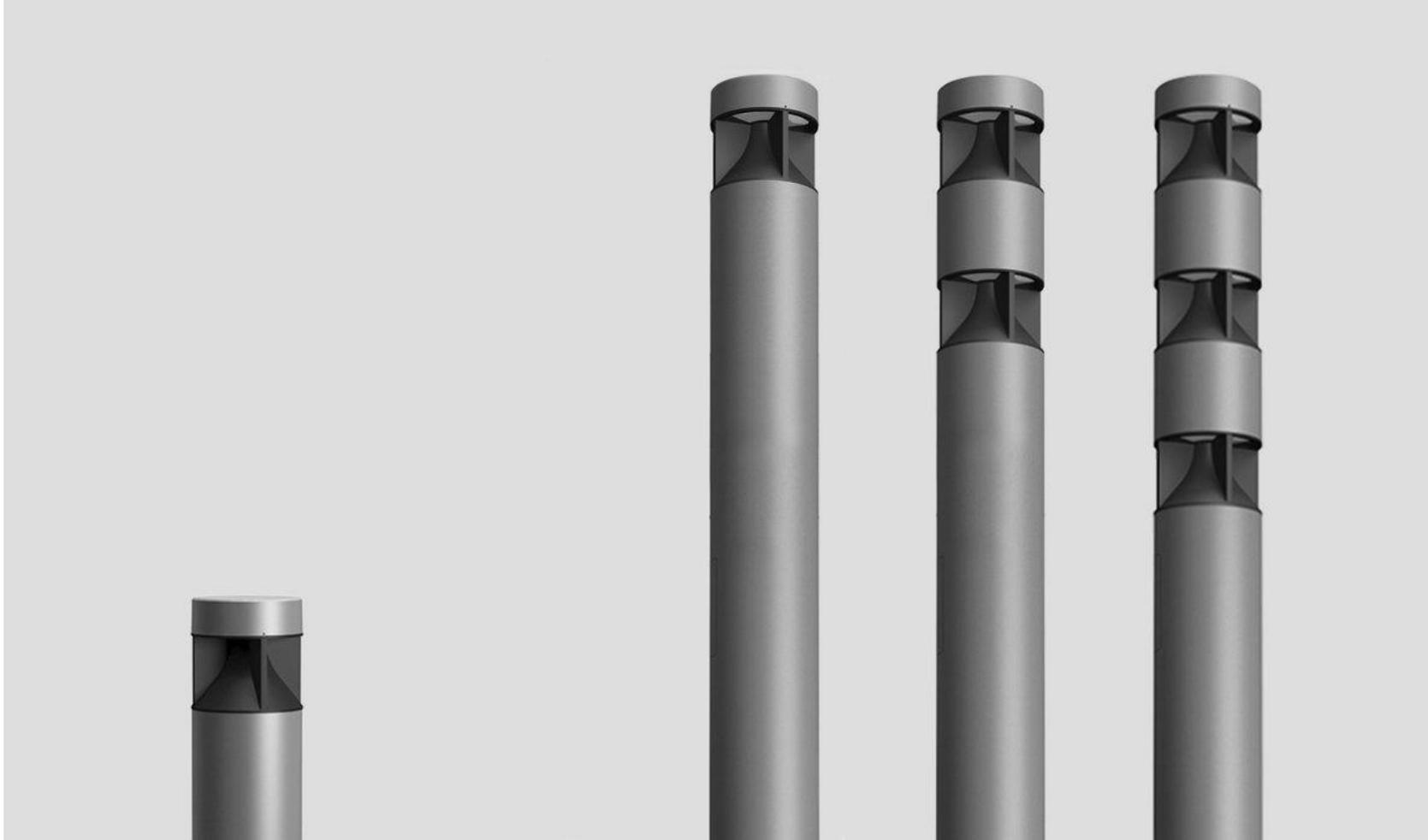
Bollard Lighting Possibilities Landscape Forms - Torres



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Bollard Lighting Possibilities

Selux - Inula



Overhead Lighting

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Intersection Overhead Lighting Possibilities Ligman – Plain Square Light Column



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Intersection Overhead Lighting Possibilities Ligman - Vancouver Light Column



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Intersection Overhead Lighting Possibilities Ligman - Jet Post Top



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Intersection Overhead Lighting Possibilities

Ligman - Macaron Post Top



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Intersection Overhead Lighting Possibilities

Beacon - Slide



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Intersection Overhead Lighting Possibilities WAC – Mid Century Modern - Chamber



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Intersection Overhead Lighting Possibilities

GE – Evolve



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Intersection Overhead Lighting Possibilities Cooper Industries – Arbor Top



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Intersection Overhead Lighting Possibilities Hubbel – Promenade (LED version)



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Intersection Overhead Lighting Possibilities Hubbel - Parkway Square



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Intersection Overhead Lighting Possibilities Beacon - Urban



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Intersection Overhead Lighting Possibilities Hubbel/Kim – Era Bell



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Intersection Overhead Lighting Possibilities King K800, showing one of several K800 styles



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Intersection Overhead Lighting Possibilities Landscape Forms - Alcott

