

Perillie, Michelle

From: Michelle Perillie <mperillie@gmail.com>
Sent: Monday, June 5, 2023 3:20 PM
To: Perillie, Michelle
Subject: Fwd: Dark Skies
Attachments: July 22 - Approved.pdf; CV 2020.jpg

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----- Forwarded message -----

From: **Leo Smith** <leo@smith.net>
Date: Mon, Jun 5, 2023 at 3:04 PM
Subject: Re: Dark Skies
To: Michelle Perillie <mperillie@gmail.com>

Hi Michelle...

One suggested consideration for temporary sports field practice lighting would be to add a new subsection (n) under **32A-19.3 REQUIREMENTS** to limit the correlated color temperature of such sports field practice lighting to no more than 2700K...

The new subsection (n) might read:

All temporary or permanent sports field lighting shall be rated by the lighting manufacturer at or below a correlated color temperature of 2700 Kelvin

The Illuminating Engineering Society and Darksky formed a joint task force that published a MODEL OUTDOOR LIGHTING ORDINANCE (attached) that addresses outdoor lighting issues. One solution was to implement the BUG RATING SYSTEM (BUG is an acronym for BACKLIGHT, UPLIGHT and GLARE. Many lighting fixture manufacturers now include the BUG RATING for their products on their information sheets.

I included a copy of the MLO for reference and would be available to discuss it with you if you have questions. My credentials are included in the attached CV.

Leo Smith

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On 6/5/2023 2:19 PM, Michelle Perillie wrote:

<http://online.encodeplus.com/regs/westport-ct/doc-viewer.aspx?secid=6985&keywords=lighting#secid-6985>

This is the link to current regulation on field lighting.

On Mon, Jun 5, 2023 at 2:16 PM Michelle Perillie <mperillie@gmail.com> wrote:

We don't have anything proposed yet, it will be discussed at the meeting then we will draft an amendment.

On Mon, Jun 5, 2023 at 2:07 PM Leo Smith <leo@smith.net> wrote:

Hi Michelle...I received your email with the link...

If it's no trouble, could you send me the draft text amendment on LIGHTING AT SCHOOLS? I'd like to see if the draft language applies to sports field lighting and parking lot lighting at the schools...

Leo

On 6/5/2023 1:50 PM, Michelle Perillie wrote:

Here is the agenda which includes the Zoom link.
Looking forward to "seeing" you on Wednesday.

On Mon, Jun 5, 2023 at 1:40 PM Leo Smith <leo@smith.net> wrote:

----- Forwarded Message -----

Subject:Re: Dark Skies
Date:Thu, 1 Jun 2023 13:48:08 -0400
From:Leo Smith <leo@smith.net>
To:Perillie, Michelle <mperillie@westportct.gov>

Hi Michelle...

I am available for the zoom meeting, but might be also available to be there in person. I'm scheduled to speak in Greenwich at 7PM on June 7th.

I will be coming through Westport on my way to Greenwich accompanied by my wife. We will be staying overnight in Stamford.

So I could make a day of it and be there in person for your noon meeting if others in your meeting are there in person. Following your meeting I could take my wife to lunch, check into our Stamford hotel, and prepare for the 7PM meeting in Greenwich.

Below is information on the presentation at the PERROT Memorial Library in Old Greenwich, titled LIGHTS OUT. It would be great if others in Westport know of the Greenwich meeting in case they are interested in attending.

<https://perrotlibrary.org/event/a-presentation-on-light-pollution-by-lights-out-greenwich/>

With regards to Westport outdoor lighting regulations:

I skimmed through Westport Regulations SECTION 9-7-5 SHIELDING AND OUTDOOR STANDARDS

A couple of comments...

A significant increase in light pollution is due to the use of LEDs emitting high levels of blue wavelength light. Consideration might be given to adopting a new subsection to Section 9-7-5 to restrict outdoor commercial lighting to a maximum correlated color temperature of 2700K.

The American Medical Association adopted a position paper in 2016 acknowledging harm from blue wavelength LEDs (attached)

Another consideration: Subsection (d) of Section 9-7-5 deals with floodlights and spotlights, and allows these lights to be tilted at a maximum of 45 degrees. In commercial applications, this provision conflicts with the State Building Code's Light Pollution Control requirements. The Code is online at <https://portal.ct.gov/-/media/DAS/Office-of-State-Building-Inspector/2022-State-Codes/2022-CSBC-Final.pdf>. Page 54 shows Light Pollution Control requirements and Page 19 shows the definition of a Full Cutoff luminaire. The State Building Code requires floodlights located on commercial property to be fully shielded and to shine straight down. A 45 degree tilt would conflict with the state building code requirements.

A final consideration would be to add a new subsection to Section 9-7-5 to require that a Lighting Plan must accompany any permit application to show the location and manufacturer's ratings of all outdoor lighting fixtures proposed for the project, so as to ensure that the fixtures comply with all Westport requirements.

Let me know if an in-person visit might be more helpful. Otherwise, let me know the details for the zoom meeting on June 7th...

Leo Smith Northeast Regional Director - IDA - 860-668-4000



On 6/1/2023 10:19 AM, Perillie, Michelle wrote:

Hello,
We are having a meeting with our zoning regulation revision subcommittee to discuss adopting Dark Skies regulations for our non-residential properties. The Chair of the Planning and Zoning Commission asked that I reach out to see if you could possibly attend our meeting on June 7, 2023 at 12:00 via Zoom to discuss the Dark Skies philosophy. Please let me know if you would be willing to attend.

Thanks,
Michelle Perillie

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