

Government of the District of Columbia

Department of Transportation



d. P3/Streetlights

Streetlight Advisory Panel Meeting

District Department of Transportation

[Virtual Meeting](#)

Tuesday, April 14, 2020

4:30 – 6:00 PM

Attendees

Sharon Turner, Delores Bushong, Laura Phinizy, Kathleen Cromley, Amanda Young, Duilio Passariello, David Searles, DeVon Smith, Kathryn Roos, Trevor Langan

Notes

- I. Project Update from DDOT
 - a. Given the COVID-19 public health emergency, the Streetlight Division is working remotely. The Mayor's emergency order is currently in effect until May 15, 2020.
 - b. COVID-19 has also led to the postponement of the next set of One-on-One meetings with the qualified bidders. DDOT is anticipating the process to occur virtually through the rest of the procurement.
 - c. New wattage chart
 - i. DDOT showed an updated wattage specifications chart. The chart showed reduced wattages as compared to the previous version because of the industry improvements in LED lighting efficacy.
 - ii. The group requested that DDOT provide the corresponding brightness level in a revised version of the chart, which DDOT will work on for the next meeting.
- II. Discussion on Illuminating Engineering Society standards
 - a. Delores: Why are we starting with a wattage chart?
 - i. The wattage chart is useful for public consumption because most people are familiar with wattage. We also purchase fixtures by wattage classifications.
 - ii. Duilio: We should add more columns with lumen output.
 - iii. Delores: We should give the bidders a chart like IES or AASHTO standards with lux/footcandles in the RFP.
- III. Discussion on other topics collected during the March brainstorm
 - a. What are the procedures for overlighting?
 - i. The District has already shared its perspective and processes for responding to overlighting concerns.

1. Duilio: Look to IES RP-8-18 ch. 11 for recommended values.

Table 11-1. Lighting Design Criteria for Streets.

table 11-1

Street Classification	Pedestrian Activity Classification*	Average Luminance L_{avg} (cd/m ²)	Average Uniformity Ratio L_{avg}/L_{min}	Maximum Uniformity Ratio L_{max}/L_{min}	Maximum Veiling Luminance Ratio $L_{v,max}/L_{avg}$
Major	High	1.2	3.0	5.0	0.3
	Medium	0.9	3.0	5.0	0.3
	Low	0.6	3.5	6.0	0.3
Collector	High	0.8	3.0	5.0	0.4
	Medium	0.6	3.5	6.0	0.4
	Low	0.4	4.0	8.0	0.4
Local	High	0.6	6.0	10.0	0.4
	Medium	0.5	6.0	10.0	0.4
	Low	0.3	6.0	10.0	0.4

Table Notes:

* Pedestrian Activity Classifications are defined in Section 11.3.3.

L_{avg} : Maintained average pavement luminance

L_{min} : Minimum pavement luminance

$L_{v,max}$: Maximum veiling luminance

- b. What is the process for public engagement after contract award?
 - i. The bidders will be required to create communications plans as part of their response to the RFP for evaluation.
 - ii. The selected developer will be held to strict public communications performance standards, such as distributing door hangers six weeks prior to construction in a neighborhood.
 - iii. There will be a project website hosted by DDOT where the developer will share plans and updates.
 - iv. Duilio: Can the SAP participate in public outreach?
- c. How can the SAP support the Streetlight Division and better engage?
 - i. DDOT is thankful for the offer and will follow up if needed.
- d. Are the maximum and minimum lighting levels in the RFP?
 - i. DDOT will provide more information at the next meeting.
- e. What is the process for rolling out the fixtures across the city?
 - i. The RFP has specific requirements for bundling, which is the way the fixture conversion will be grouped by the developer. The number of the bundles will be proposed by the developer.
 - ii. The RFP currently specifies that the developer must be working in 3 out of 8 wards at once, but must complete an ANC before moving to the next.
 - iii. There are also specification on the time of day work can and cannot be completed, such as no highway work during rush hour
- f. Will the process be iterative so that we're sure the system works to our expectations?
 - i. The total construction time will be limited to two years.
 - ii. There are commissioning requirements to control for quality as fixtures will be installed.
 - iii. The Streetlight Division will be the contract administrator and will hold consistent communications.

- g. Vision Zero, what is the connection to the project?
 - i. DDOT's Vision Zero objective is: By the year 2024, Washington, DC will reach zero fatalities and serious injuries to travelers of our transportation system, through more effective use of data, education, enforcement, and engineering.
 - ii. Duilio: Increased lighting at crosswalks could be helpful
- IV. SAP discussion with DDOT
 - a. Sharon, Delores, and Bonnie Garrity testified at the DDOT Performance Oversight Hearing and then met with Director Jeff Marootian on 3/14.
 - b. Sharon, Delores, and Kathryn subsequently met with Director Marootian at DDOT HQ to express their concerns about the role of the SAP.
- V. Discussion on Future Agenda Items
 - a. How will we know if light pollution has been reduced?
 - b. Explore hiring a lighting designer
 - i. Is Celtic a member of IES?
- VI. Adjourn
 - a. The next meeting is scheduled for Tuesday, May 12, from 4:30 – 6:00 PM virtually on Microsoft Teams.