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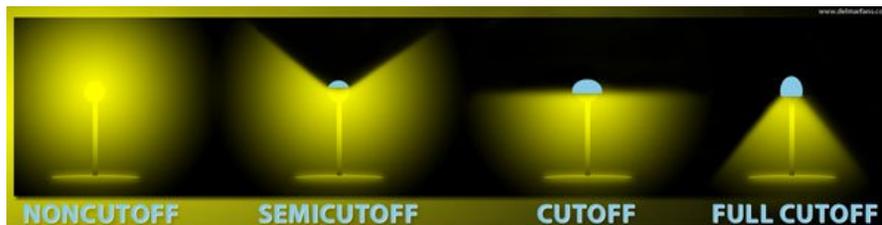
Anna Snook P.Eng.
Transportation System Engineer
City of St. John's

Dear Anna,

Thank you for providing the draft Direction/Decision Note of the Downtown Decorative Street Light Working Group for review by The Light Pollution Abatement (LPA) Committee of the St. John's Centre of the Royal Astronomical Society of Canada (RASC). The St. John's RASC is one of 29 centres in Canada's leading astronomy organization.

Excessive artificial light at night creates sky glow that obscures the night sky and negatively affects human health and animal habitat. Our LPA Committee is working toward social and legislative change for responsible lighting practices that preserve the nighttime environment for all to enjoy.

The existing decorative lighting in the downtown is a "non-cut-off" style that mainly shines 50% upward and 10% sideways with only 40% lighting the ground. We support the Working Group's selection of "cut-off" style fixtures that do not shine upward.



<https://www.delmarfans.com/educate/basics/lighting-pollution/>

However, the cut-off style fixtures still emit light sideways causing glare. We encourage the City to consider selecting full-cut-off style fixtures that only shine downward. Full-cut-off is the best choice from an LPA perspective. It would also be favorable to install the lowest possible wattage and colour temperature of LED light that meets your requirements for roadways and general public safety and security.

The St. John's RASC is interested in contributing further to the success of the project with recommendations on the fixtures and LED lighting boards to be installed. We also encourage the City to contact other municipalities for best practices in retrofitting decorative street lighting in sensitive historical districts such as downtown St. John's.

Sincerely,

Doug Grouchy
Chair, LPA Committee