

College of William and Mary
Facilities Management Technical Standards

SW 20.2 Site Lighting

SW 20.2.1. Light Fixtures and Design Requirements

All exterior **building mounted** lighting fixtures shall **be** College approved types.

All foot-candle references are average maintained values, U.O.N.

All fixtures shall be cut-off type, designed to meet Illumination Engineering Society (IES) standards for cut-off optics, unless otherwise directed. Point-by-point foot-candle calculations of the site lighting and voltage drop calculations for site lighting circuits shall be provided with the working drawings submission. Initial illumination levels shall be shown in addition to illumination levels just prior to replacing the lamps.

Photometric data shall be provided that shows the percentage of up-light. Foot-candle calculations shall include the IES design level/classifications used and shall be submitted at the working drawings submission and shall be thoroughly discussed in the basis of design and fully coordinated with the landscape and civil design elements.

All exterior steps, roadways walkways and ramps shall be illuminated, see Illumination Requirements below.

Exterior Illumination Requirements – Horizontal (Measured at Grade)		
Location/Area	Foot-candle levels	Remarks
Paths, Walks and Ramps	0.5 avg. & 0.125 min.	4:1 avg./min.
Exterior Steps	0.2 min. top to bottom	4:1 avg./min.
Roadways	Per IES Recommendations	
Parking Lots & Garages	Per IES Recommendations	
Exit Discharge (Normal)	Per VUSBC/ IBC	
Exit Discharge (Emergency)	Per VUSBC/ IBC	

The PM shall ensure that all new or replacement site lighting in proximity to Small Hall is reviewed by Chair, Physics Department at the schematic design phase.

All new exterior lighting fixtures are to use High Pressure Sodium lamps.

Pole mounted fixtures for use **campus wide except in the Historic District Area** are to be cast aluminum fixtures and poles. The fixture and pole color is to be standard bronze finish. Actual matching color to be approved by Facilities Management **Director, Maintenance and Operations** prior to ordering fixtures.

The only acceptable fixture and pole for campus wide use are as follows:

College of William and Mary
Facilities Management Technical Standards

Luminaire: Holophane Arlington Series Catalog #AR15AHPMTZP5C, Standard Bronze Finish.

Pole: Holophane Barrington Series Catalog #ZB1220R7CCADBH, cast one piece, 20" octagonal base, 7" round top, standard bronze finish.

Poles and fixtures for the Historic Area will be provided by the College; the project manager will coordinate provision of them with the Director, Maintenance and Operations.