

MONTGOMERY COUNTY  
DEPARTMENT OF TRANSPORTATION  
TRAFFIC ENGINEERING AND OPERATIONS  
JUNE 2016

DAMASCUS PEDESTRIAN LED LUMINAIRES  
IN THE DAMASCUS COMMERCIAL AREA

1) PURPOSE

The purpose of these specifications is to prescribe the minimum requirements for the design, manufacture, fabrication, finishing and delivery of Damascus pedestrian LED luminaire. This luminaire is intended for use in the urban streetscaped areas. Any manufacturer, distributor or vendor who submits a bid shall agree to comply with these specifications and attached drawings.

2) PEDESTRIAN LUMINAIRE

2.1) Luminaire

The luminaire shall consist of a 413F, Low-Copper cast aluminum 0.090" thick spun aluminum. It shall be easy to access the lamp, and the hinged lens frame should be a cast aluminum with stainless steel spring latch for tool-less lamp access. This luminaire should also have a weatherproof ballast assembly that isolates the ballast from water and heat for longer life. All of the fasteners should be non-ferrous to prevent corrosion and ensure longer life. The entire fixture should be UL listed to U.S. Safety standards for wet location. This fixture should be manufactured to ISO 9001:2000 Standards. The entire assembly shall be U.L. or C.S.A. listed suitable for wet location.

2.2) LED Optical Assemble

The optical assembly shall consist of a injection molded acrylic optical plate with Type III distribution. The lens shall be clear tempered flat glass.

2.3) Driver & Surge Protection

The driver shall be mounted to facilitate easy removal for maintenance operations. The driver shall be equipped with a 10KV Surge Protection and suppression system. All electrical connections shall be polarized and of plug-in design. The driver shall be wired to receive 120 volt AC current. The driver shall reliably start and operate the lamp in ambient temperatures down to minus 30 degrees. The terminal block shall be capable of accepting up to a #6 AWG wire.

2.4) LED Color Temperature (CCT) and Rendering Index (CRI)

The Correlated Color Temperature (CCT) shall be a nominal Kelvin Temperature of  $3500 \pm 200$  K with a minimum Color Rendering Index (CRI) of 70

2.5) Finish (exterior)

The exterior of the luminaire shall be finished in a hunter green custom color. The finish of the luminaire shall be Thermoset polyester powdercoat that is electrostatically applied after a five-stage conversion cleaning process and bonded by heat fusion thermosetting. This finish should be laboratory tested for superior

*SPECIFICATIONS FOR STREETLIGHT HARDWARE*

*IFB # 1063092*

weatherability and fade resistance in accordance with ASTM B-117-64 and  
NSI/ASTM G53-77 specifications.

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