# L-861SE(L) LED MEDIUM INTENSITY THRESHOLD LIGHTS (MITHLs) - SAMPLE SPECIFICATION

*Note: Modify the items in italics according to your specific job requirements.*

# ITEM L-125 INSTALLATION OF L-861SE(L) LED MEDIUM INTENSITY THRESHOLD LIGHTS (MITHLs)

**DESCRIPTION**

125-1.1 This item shall consist of furnishing and installing the L-861SE(L) LED MITHLs in accordance with this specification and the applicable FAA Advisory Circular. The fixtures shall be installed at the specified location and in accordance with the dimensions, design, and details shown in the plans.

This item shall include the furnishing of all equipment, materials, services, and incidentals necessary to place the lights in operation as completed units to the satisfaction of the Engineer.

# EQUIPMENT AND MATERIALS

125-2.1 L-861SE LED MEDIUM INTENSITY THRESHOLD LIGHTS (MITHLs).

1. EQUIPMENT CONFORMANCE REQUIREMENTS. The L-861SE(L) LED MITHLs shall conform to the requirements of FAA Advisory Circular

150/5345-46 (current edition) “Specification for Runway and Taxiway Light Fixtures” and FAA LED “Engineering Brief No. 67” (current edition). The L-861SE(L) LED MITHLs shall be ETL certified. The L-861SE(L) LED MITHLs shall be manufactured by AIRPORT LIGHTING COMPANY (www.airportlightingcompany.com) or approved equal.

1. EQUIPMENT SUPPLIED. The L-861SE(L) LED MITHLs shall be supplied for the total quantity as shown on the plans. The manufacturer shall have a downloadable electronic version of the manual available on their web site.
2. LIGHT SOURCE REQUIREMENTS. The L-861SE(L) LED MITHL light source shall be a Light Emitting Diode (LED) assembly. The lifetime of the LED shall be a minimum of 50,000 hours at full intensity. To ensure high daytime visibility, L-861SE(L) shall use a clear-colored optical lens & colored Lens Retainer.

No active electronic LED elements shall be placed in the base can. The fixture shall use robust, solid-state internal devices that withstand damage if the fixture is knocked over.

1. POWER REQUIREMENTS. The L-861SE(L) LED MITHLs shall be designed to operate with a 30/45W, 6.6A (secondary) isolation transformer. The L-861SE(L) MITHL shall be designed to operate with a 65W, 6.6A (secondary) isolation transformer when the use of an artic kit/ heater is required.
2. OTHER REQUIREMENTS. The exterior color of the base shall be Aviation Yellow. The fixture shall have a leveling mechanism that allows ±4° vertical adjustment in the field.

# CONSTRUCTION METHODS

125-3.1 PLACING THE L-861SE(L) LED MEDIUM INTENSITY THRESHOLD LIGHTS (MITHLs). The contractor shall furnish and install each L-861SE(L) LED fixture as specified in the proposal and shown in the plans. The L- 861SE(L) fixtures shall be mounted on an industry standard 1.5-inch frangible coupling. The overall fixture height shall be 14 inches {20 inches} *{24 inches} {30 inches}.* The fixture shall then be mated to a standard FAA L-867 base at the locations shown on the plans.

125--3.2 TESTS. All L-861SE(L) LED fixtures shall be fully tested by continuous operation for not less than 24 hours as a completed system prior to acceptance. The test shall include operating the constant current regulator in each step not less than 10 times at the beginning and end of the 24-hour test. The fixtures shall illuminate properly during each portion of the test.

# METHOD OF MEASUREMENT

125-4.1 MEASUREMENT. The quantity of lights to be paid for under this item shall be for the total quantity of L-861SE(L) LED fixtures installed and accepted as completed units, in place, ready for operation and accepted by the Engineer.

# BASIS FOR PAYMENT

125-5.1 PAYMENT. Payment will be made at the contract unit price for the completed total quantity of L-861SE(L) LED fixtures installed, in place by the Contractor, and accepted by the Engineer. This price shall be full compensation for furnishing all materials and for all preparation, assembly, and installation of these materials, and for all labor, equipment, tools, and incidentals necessary to complete this item.

Payment will be made under:

Item L-125-5.1 L-861SE(L) LED MITHLs, in Place—per each

**END OF ITEM L-125**