SECTION 16513

UNDER-CABINET LIGHTING SYSTEM

PART 1 - GENERAL

1.1   CONDITIONS AND REQUIREMENTS

A.   The General Conditions, Supplementary Conditions, and Division 1 – General Requirements apply.

1.2   SECTION INCLUDES

A.   Under-cabinet lighting system.

1.3   RELATED SECTIONS

Specifier Note: In this article, specify work specified in other sections that is related to work of this section.

A.   Division 16 - Electrical: Electrical systems and components.

Specifier Note: The following paragraph is a sample that may be used in this article. Add to or delete from the following as appropriate for the specific project.

B.   Section [xxxxx] – [Section Title]: [Include brief description of work specified in another section that is related to the work of this section.]

1.4   SUBMITTALS

Specifier Note: In this article, specify various types of data to be furnished by the contractor before, during, or after construction. Topics included in this article are: product data, shop drawings, samples, design data, test reports, certificates, manufacturers' instructions, manufacturers' field reports, qualification statements, and closeout submittals.

A.   Submit under provisions of Section [01330] [_____].

B.   Product Data: Submit for each type of product specified.

C.   Samples: Submit one (1) [_____] sample for each type of under-cabinet lighting system component specified with required color and finish. Show standard color and finish ranges available.

1.5   QUALITY ASSURANCE

Specifier Note: In this article, describe qualifications, regulatory requirements, certifications, field samples, mock-ups, and pre-installation meetings.

A.   Manufacturer Qualifications: Firms regularly engaged in manufacture of under-cabinet lighting system components of the types and sizes required, whose products have been in satisfactory use in similar service for not less than 10 years.

B.   Source Limitations: Obtain each type of under-cabinet lighting system component through one (1) source from a single manufacturer.

C.   Under-Cabinet Lighting System Components: Listed and labeled by cETLus.

1.6   DELIVERY, STORAGE AND HANDLING

A.   Deliver under-cabinet lighting system components in factory labeled packages.

B.   Store and handle in strict compliance with manufacturer's written instructions and recommendations.

C.   Protect from damage due to weather, excessive temperature, and construction operations.

PART 2 - PRODUCTS

2.1   MANUFACTURERS

A.   Basis-of-Design Product: The design for under-cabinet lighting system components is based on products manufactured by legrand®/adorne™, 60 Woodlawn Street, West Hartford, CT 06110; toll-free 877-295-3472, telephone 877-295-3472, Web Site: www.legrand.us/adorne.

B.   Substitutions will be considered under provisions of Section 01635.

2.2   UNDER-CABINET LIGHTING SYSTEM

Specifier Note: Retain as many of the following products as required for a specific project and delete the others.

A.   Under-Cabinet Lighting System: Modular, fully customizable system of components that can be either hard-wired or plugged into any home wiring configuration. Designed for use in kitchens, offices, hospitality, and healthcare applications.

B.   Modular Tracks:

Specifier Note: Retain the type of modules required for a specific project and delete the others. If a project requires multiple modules include a schedule at the end of this section.

1.   12" Modular Track: adorne™ Part No. APMT12[TM2][W2]; 12-inch length includes one (1) outlet module and one (1) blank module, [titanium] [white] color; capable of supporting up to two (2) LED lights; provides 120V power via 15A outlet modules and 20A pass-through; module openings on six (6) inch centers; outlets are tamper resistant and ETL Listed.

2.   18" Modular Track: adorne™ Part No. APMT18[TM4][W4]; 18-inch length includes one (1) outlet module and one (1) blank module, [titanium] [white] color; capable of supporting up to two (2) LED lights; provides 120V power via 15A outlet modules and 20A pass-through; module openings on nine (9) inch centers; outlets are tamper resistant and ETL Listed.

3.   27" Modular Track: adorne™ Part No. APMT27[TM2][W2]; 27-inch length includes two (2) outlet modules and one (1) blank module, [titanium] [white] color; capable of supporting up to three (3) LED lights; provides 120V power via 15A outlet modules and 20A pass-through; module openings on nine (9) inch centers; outlets are tamper resistant and ETL Listed.

4.   Short Modular Track: adorne™ Part No. APST9[TM1][W1]; for use with narrow single cabinets; back feed power from in-wall wiring; 10-1/4-inch length with end caps, [titanium] [white] color; tamper resistant; ETL Listed.

5.   18" Modular Track Extender: adorne™ Part No. APME18[TM2][W2]; 18-inch length blank module enables a perfect fit in any room, [titanium] [white] color; cut to length (minimum of six (6) inches); attach to end of modular track; does not contain any module openings; ETL Listed.

6.   Modular Track Corner Connector: adorne™ Part No. APCC[TM4][W4]; use with installations that include a right-angle corner to connect two (2) modular tracks,

[titanium] [white] color; allow three (3) inches on each side for installations with corner connectors; ETL Listed.

C.   Control Boxes:

1.   Control Box with Paddle Dimmer: adorne™ Part No. APCB1[TM4][W4]; connects to existing in-wall wiring; fits onto end of modular track, adding five (5) inches onto system length, [titanium] [white] color; includes adorne™ Paddle Dimmer Part No. ADPD453LM2 rated for 450W CFL/LED; GFCI protection must be provided at electrical panel; ETL Listed.

2.   Control Box with Paddle Dimmer and 15A GFCI: adorne™ Part No. APCB6[TM2][W2]; connects to existing in-wall wiring; fits onto end of modular track, adding 5-1/4 inches onto system length, [titanium] [white] color; includes adorne™ Paddle Dimmer Part No. ADPD453LM2 rated for 450W CFL/LED and 15A tamper-resistant GFCI outlet adorne™ Part No. AGFTR2152[M4][W4], [titanium] [white] color; ETL Listed.

3.   Plug-In Control Box: adorne™ Part No. APCB3TM4, titanium color; snaps into any module opening on track and plugs into an existing outlet to provide system power; cord length of 24 inches can easily be shortened to match distance from outlet to modular track; ETL Listed.

4.   One-Gang Control Box, No Devices: adorne™ Part No. APCB4[TM1][W1]; connects to existing in-wall wiring; fits onto end of modular track, adding five (5) inches onto system length, [titanium] [white] color; customizes with choice of adorne™ dimmers, switches, or outlets; ETL Listed.

5.   Two-Gang Control Box, No Devices: adorne™ Part No. APCB5[TM1][W1]; connects to existing in-wall wiring; fits onto end of modular track, adding 5-1/4 inches onto system length, [titanium] [white] color; customizes with choice of adorne™ dimmers, switches, or outlets; ETL Listed.

6.   Direct Wire Connector: adorne™ Part No. APDWC[TM1][W1]; enables direct wire feed of power from in-wall wiring, eliminating need for a control box; connector is six (6) inches in length, [titanium] [white] color; ETL Listed.

D.   LED Lights and Accessories:

1.   12" LED Strip Light: adorne™ Part No. ALSLLED12[TM4][W4], [titanium] [white] color; 4.83 watts, 328 lumens; Correlated Color Temperature - 3000 degrees Kelvin, Color Rendering Index - 93; ETL Listed.

2.   6" LED Strip Light: adorne™ Part No. ALSLLED6[TM4][W4], [titanium] [white] color; 2.83 watts, 158 lumens; Correlated Color Temperature - 3000 degrees Kelvin, Color Rendering Index - 93; ETL Listed.

3.   60 Watt LED Dimmable Driver: adorne™ Part No. ALSLDR60[TM1][W1], [titanium] [white] color; powers up to 10 feet of adorne™ expandable strip lights; ETL Listed.

4.   30 Watt LED Dimmable Driver: adorne™ Part No. ALSLDR30[TM1][W1], [titanium] [white] color; powers up to 10 feet of adorne™ expandable strip lights; ETL Listed.

5.   8" Joiner Cable: adorne™ Part No. ALSLJC8[TM4][W4], [titanium] [white] color; can be used to place an 8-inch space between two (2) lights, or paired with another cable for an even longer space between two (2) lights; ETL Listed.

6.   14" Joiner Cable: adorne™ Part No. ALSLJC14[TM4][W4], [titanium] [white] color; can be used to place an 14-inch space between two (2) lights, or paired with another cable for an even longer space between two (2) lights; ETL Listed.

7.   Tee Cable: adorne™ Part No. ALSLT[TM4][W4], [titanium] [white] color; used to split the power from a driver into two (2) different locations; ETL Listed.

8.   36" Power Cable Extender: adorne™ Part No. ALSLPC36[TM4][W4], [titanium] [white] color; kit extends leads on the driver so it can be hidden out of sight; ETL Listed.

9.   LED Linear Light: adorne™ Part No. ALLNLEDTM4, titanium color; eight (8) watts, 280 lumens; Correlated Color Temperature - 3000 degrees Kelvin, Color Rendering Index - 95; Energy Star Certified; can be paired with adorne™ Part No. ADPD453L CFL/LED Paddle Dimmer to enable dimming; ETL Listed.

10. Light Extender: adorne™ Part No. ALEXTLEDTM4, titanium color; enables adorne™ LED lights to be mounted up to 22 inches from backsplash by extending cord length beyond default 11 inches; ideal for corner cabinet installations; ETL Listed.

Specifier Note: Retain the type of modules and accessories as required for a specific project and delete the others.

E.   Modules and Accessories:

1.   15A Outlet Module: adorne™ Part No. APTR15[TM4][W4]; provides two (2) power outlets by snapping into any module opening; tamper-resistant outlet designed with patented shutter system; included with 12-inch, 18-inch, and 27-inch module tracks, [titanium] [white] color; rated 15A, 120V; ETL Listed.

2.   USB Outlet Module: adorne™ Part No. APUSB3[TM4][W4]; provides two (2) USB charging ports for devices such as mobile phones and tablets by snapping into any module opening, [titanium] [white] color; does not include charging cable; rated 2.1A, 5V; ETL Listed.

3.   Mobile Phone Cradle: adorne™ Part No. AAPC[TM4][W4]; attaches anywhere along track to hold a mobile phone, [titanium] [white] color; use with USB outlet mobile while charging devices.

4.   Tablet Cradle: adorne™ Part No. AATC[TM4][W4]; attaches anywhere along track to hold a tablet, [titanium] [white] color; use with USB outlet mobile while charging devices.

5.   Digital Music Kit: adorne™ Part No. AUDMTM1, titanium color; includes two (2) inch full range drivers; digital signal processing for full, rich sound; Bluetooth® wireless technology is A2DP compatible; also includes USB charging capability; ETL Listed.

PART 3 - EXECUTION

3.1   EXAMINATION

Specifier Note: Retain one (1) of the options in the first paragraph below and delete the other one.

A.   Examine conditions under which under-cabinet lighting components are to be installed. Notify the [Architect/Engineer] [Construction Manager] in writing of conditions

detrimental to proper completion of the work. Do not proceed with work until unsatisfactory conditions have been corrected.

3.2   INSTALLATION

A.   Strictly comply with manufacturer's installation instructions and recommendations. Coordinate installation with adjacent work to ensure proper clearances and to prevent electrical hazards.

Specifier Note: The under-cabinet lighting system can also be installed in front of wall finishes such as stone, tile, marble, etc. Retain either or both of the options in the following paragraph.

B.   Install under-cabinet lighting system [at underside of wall-mounted cabinets] [in front of wall finishes].

1.   Do not install under-cabinet lighting system directly above any direct heat or open flame source.
2.   Do not install under-cabinet lighting system in a high moisture content environment.

C.   Repair wall finishes and reinstall under-cabinet lighting components that do not fit flush.

3.3   CLEANING AND PROTECTION

A.   Clean exposed surfaces using non-abrasive materials and methods recommended by manufacturer.

B.   Protect under-cabinet lighting components until acceptance.

<div align="center">END OF SECTION</div>

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