SECTION 26 51 00 – INTERIOR LIGHTING

PART 1 – GENERAL

1.1 RELATED SECTIONS

A. Section 02 41 00 – Demolition

B. Section 26 27 26 – Wiring Devices

C. Section 23 34 23 – HVAC Exhaust Ventilation

1.2 REFERENCES

A. National Fire Protection Association (NFPA):

1. NFPA 70, National Electrical Code (NEC).

B. Underwriters Laboratories (UL):

1. UL standards applicable to luminaires and electrical components.

C. Illuminating Engineering Society (IES): Recommendations applicable to interior task and vanity lighting.

D. Comply with applicable state and local electrical and energy codes.

E. ENERGY STAR requirements applicable to luminaires.

1.3 SUBMITTALS

A. Product data for each luminaire proposed, including dimensions, finish, input voltage, wattage, lumen output, color temperature, color rendering index, damp-location listing, driver information, and warranty.

B. Submit any substitutions for review and approval by Architect.

1.4 QUALITY ASSURANCE

A. Provide luminaires listed and labeled for intended location and application.

B. Provide new products from manufacturers regularly engaged in manufacture of the specified equipment.

1.5 DELIVERY, STORAGE AND HANDLING

A. Deliver luminaires in original factory packaging. Store dry and protected from damage until installation.

PART 2 – PRODUCTS

2.1 LED VANITY LUMINAIRE

A. Manufacturer: Lithonia Lighting or approved equal.

B. Model: FMVCCLS 24IN MVOLT 30K35K40K 90CRI KR, Contemporary Cylinder Vanity LED, 24-inch nominal length, chrome finish.

C. Provide integrated LED luminaire suitable for residential bathroom vanity/task-lighting use.

1. Nominal length: 24 inches; actual length approximately 22-3/8 inches.
2. Input: 120-277 volts; approximately 18 watts.
3. Selectable color temperature: 3000K, 3500K, or 4000K, field selectable at installation.
4. Color rendering index: greater than 90 CRI.
5. Initial lumen output: approximately 1,690 lumens at 3000K, 1,800 lumens at 3500K, and 1,850 lumens at 4000K.
6. LED life: L70 at 50,000 hours.
7. Finish: KR Chrome.
8. Diffuser: white extruded acrylic providing even illumination and reduced LED image.
9. Listings: CSA listed to U.S. safety standards and listed for damp locations.
10. Dimming capability may be integral to the driver; however, project control shall be standard non-dimming on/off unless otherwise indicated.
11. Warranty: minimum five-year manufacturer limited warranty.

2.2 PERFORMANCE REQUIREMENTS

A. Replacement luminaire shall fit existing conditions and junction-box location without exposing unfinished surfaces, unless patching is specifically indicated.

B. Provide output and distribution suitable for vanity illumination without objectionable glare.

C. Provide complete mounting hardware, canopy, driver, and accessories required for a complete installation.

PART 3 – EXECUTION

3.1 EXAMINATION

A. Verify existing electrical service, junction-box location, wall condition, and mounting conditions before installation.

B. Report conflicts or concealed conditions prior to proceeding.

3.2 INSTALLATION

A. Remove existing vanity light and legally dispose of unless otherwise directed by Owner.

B. Install new luminaire level, secure, and centered over lavatory/mirror location as indicated.

C. Set selectable color temperature consistently for all renovated bathrooms as directed by Architect/Owner; do not mix color-temperature settings within the project without approval.

D. Connect to existing branch circuit and standard non-dimmable wall switch unless otherwise indicated.

E. Patch and touch up adjacent finishes disturbed by replacement work.

3.3 FIELD QUALITY CONTROL

A. Owner and Architect to review lamp temperature settings in one resident bathroom prior to finalizing color temperature setting.

B. Test each luminaire for proper operation, secure mounting, and consistent color-temperature setting.

C. Replace defective or damaged components prior to Substantial Completion.

END OF SECTION