



* LUMINAIRE: TR20-80W48LED4K-G3-LE3F-120-277-HS-GN6TX

* OR APPROVED EQUAL

** OR CURRENT WATTAGE REPLACING 90W

DESCRIPTION OF COMPONENTS:

HOOD: A DIE CAST A360.1 ALUMINUM DOME COMPLETE WITH A CAST-IN TECHNICAL RING WITH LATCH AND HINGE. THE MECHANISM SHALL OFFER TOOLFREE ACCESS TO THE INSIDE OF THE LUMINAIRE. AN EMBEDDED MEMORY-RETENTIVE GASKET SHALL ENSURE WEATHERPROOFING.

SKIRT: A DIE CAST A 360 ALUMINUM SKIRT COMPLETE WITH A CAST-IN TECHNICAL RING.

HOUSING: IN A ROUND SHAPE, THIS HOUSING IS MADE OF CAST 356 ALUMINUM, C/W A WATERTIGHT GROMMET, MECHANICALLY ASSEMBLED TO THE BRACKET WITH FOUR BOLTS 3/8-16 UNC. THIS SUSPENSION SYSTEM PERMITS FOR A FULL ROTATION OF THE LUMINAIRE IN 90 DEGREE INCREMENTS.

LIGHT ENGINE: LIFELED COMPOSED OF 5 MAIN COMPONENTS. ELECTRICAL COMPONENTS ARE ROHS COMPLIANT.

LENS: MADE OF SODA-LIME CLEAR TEMPERED GLASS LENS, MECHANICALLY ASSEMBLED AND SEALED ONTO THE LOWER PART OF THE HEAT SINK.

LAMP: LAMP TYPE PHILIPS LUMILEDS REBEL ES. COMPOSED OF 49 HIGH-PERFORMANCE WHITE LEDS, 90W LAMP WATTAGE. COLOR TEMPERATURE OF 4000 KELVIN NOMINAL, 70 CRI. OPERATING LIFESPAN AFTER WHICH THE SYSTEM EMITS OVER 70% (L70) OF ITS ORIGINAL LUMEN OUTPUT ALL OF THOSE PARAMETERS ARE TESTED FOR 100% OF LIGHT ENGINES. USE OF A METAL CORE BOARD INSURES GREATER HEAT TRANSFER AND LONGER LIFESPAN OF THE LIGHT ENGINE.

OPTICAL SYSTEM: (LE3F), I.E.S. TYPE III (ASYMMETRICAL). COMPOSED OF HIGH-PERFORMANCE ACRYLIC COLLIMATORS, OPTIMIZED WITH VARYING BEAM ANGLES TO ACHIEVE DESIRED DISTRIBUTION. SYSTEM IS RATED IP66. PERFORMANCE SHALL BE TESTED PER LM63 AND LM79 (IESNA) CERTIFYING ITS PHOTOMETRIC PERFORMANCE. STREET-SIDE INDICATED.

HEAT SINK: MADE OF CAST ALUMINUM OPTIMIZING THE LEDS EFFICIENCY AND LIFE. PRODUCT DOES NOT USE ANY COOLING DEVICE WITH MOVING PARTS (ONLY PASSIVE COOLING DEVICE).

DRIVER: HIGH POWER FACTOR OF 90%. ELECTRONIC DRIVER, OPERATING RANGE 50-60 HZ. AUTO-ADJUSTING TO A VOLTAGE BETWEEN 120 AND 277 VOLT AC RATED FOR BOTH APPLICATION LINE TO LINE OR LINE TO NEUTRAL, CLASS II, THD OF 20% MAX. MAXIMUM AMBIENT OPERATING TEMPERATURE FROM -40°F (-40°C) TO 130°F (55°C). CERTIFIED IN COMPLIANCE TO CULUS REQUIREMENT. DRY AND DAMP LOCATION. ASSEMBLED ON A UNITIZED REMOVABLE TRAY WITH TYCO QUICK DISCONNECT PLUG RESISTING TO 221F (105C) DEGREES.

THE CURRENT SUPPLYING THE LEDS WILL BE REDUCED BY THE DRIVER IF THE INTERNAL TEMPERATURE EXCEEDS 185F (85C), AS A PROTECTION TO THE LEDS AND THE ELECTRICAL COMPONENTS. OUTPUT IS PROTECTED FROM SHORT CIRCUITS, VOLTAGE OVERLOAD AND CURRENT OVERLOAD. AUTOMATIC RECOVERY AFTER CORRECTION.

SURGE PROTECTOR: LED DRIVER 3 POLES 10KV SURGE PROTECTORS THAT PROTECT LINE-GROUND, LINE NEUTRAL, AND NEUTRAL-GROUND IN ACCORDANCE WITH IEEE/ANSI C62.41.2 GUIDELINES.



CITY OF GIG HARBOR
ENGINEERING DIVISION

**LUMEC 7833 (MIN.)
LUMEN 20 FT POLE
LED LUMINAIRE HEAD**

DETAIL NO.

2-35

APPROVED FOR PUBLICATION
CITY ENGINEER _____

DRAFT

DATE

12-05-2024
DRAFT