



* LUMINAIRE: TR20-009-135W80LED4K-G3-LE3F-120-277-HS-GN6TX

* OR APPROVED EQUAL

** OR CURRENT WATTAGE REPLACING 135W

DESCRIPTION OF COMPONENTS:

HOOD: CAST 356 ALUMINUM DOME, MECHANICALLY ASSEMBLED ON THE LUMINAIRE.

ACCESS-MECHANISM: A DIE CAST A360 ALUMINUM 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.

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

LAMP: COMPOSED OF 80 HIGH-PERFORMANCE WHITE LEDS, 135W LAMP WATTAGE. COLOR TEMPERATURE OF 4000 KELVIN NOMINAL, 70 CRI. OPERATING LIFESPAN BASED ON LM80 RESULTS AFTER WHICH 50% STILL EMITS OVER 70% (L70) OF ITS ORIGINAL LUMEN OUTPUT. USE OF A METAL CORE BOARD ENSURES GREATER HEAT TRANSFER AND LONGER LIFESPAN OF THE LIGHT ENGINE. THE LED CIRCUIT BOARD IS INCLUDED WITH A CONNECTOR, (NO CONNECTION WIRE REQUIRED FOR EASE OF REPLACEMENT).

OPTICAL SYSTEM: (LE3S), I.E.S. TYPE III (ASYMMETRICAL). COMPOSED OF HIGH-PERFORMANCE ACRYLIC REFRACTORS LENSES TO ACHIEVE DESIRED DISTRIBUTION OPTIMIZED TO GET MAXIMUM SPACING, TARGET LUMEN'S AND A PERFECT LIGHTING UNIFORMITY. SYSTEM IS RATED IP66. PERFORMANCE SHALL BE TESTED PER LM63 AND LM 79 AND TM15 (IENSA) CERTIFYING ITS PHOTOMETRIC PERFORMANCE.

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 95%. 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 I, THD OF 20% MAX. MAXIMUM AMBIENT OPERATING TEMPERATURE FROM -40°F (-40°C) TO 130°F (55°C). CERTIFIED IN COMPLIANCE TO CULUS REQUIREMENT. WEATHER TIGHTNESS RATING IP66. ASSEMBLED ON A UNITIZED REMOVABLE TRAY WITH TYCO QUICK DISCONNECT PLUG RESISTING TO 221°F (105°C).



CITY OF GIG HARBOR
ENGINEERING DIVISION

LUMEC 13544 (MIN.)
LUMEN 30 FT POLE
LED LUMINAIRE HEAD

DETAIL NO.

2-36

APPROVED FOR PUBLICATION
CITY ENGINEER

DRAFT

12-05-2024
DATE DRAFT