



PRODUCT SPECIFICATION

1.0 SCOPE

THIS PRODUCT SPECIFICATION COVERS THE 4 FOOT 72 WATT (4 - 18W LED T10 LAMPS) AND 2 FOOT 40 WATT (4-10W LED T10 LAMPS) TUBULAR FIXTURE WITH AN OPTIONAL HANGING STRAP.

2.0 PRODUCT DESCRIPTION

2.1 PRODUCT NAME AND SERIES NUMBER(S)

TUBE LIGHT 72 WATT OR 40 WATT LED WIDE AREA INDUSTRIAL DUTY, SERIES NUMBER **130108**

2.2 DIMENSIONS, MATERIALS, PLATINGS AND MARKINGS

OVERALL DIMENSIONS:

FIXTURE: 4FT: 60" L X 4" DIAMETER, 2FT: 36" L X 4" DIAMETER

END CAPS: PARACRIL OZO, 5/32" MINIMUM THICKNESS

DIFFUSER: CELLULOSE ACETATE BUTYRATE, 1/8" THICK, 4" DIAMETER, CLEAR

LAMP HOLDER: 4 PROVIDED, LISTED, SUITABLE FOR USE WITH LED T10 LAMPS

LUMINAIRE SHALL BE PLAINLY MARKED IN A PERMANENT MANNER IN A PLACE WHERE THE DETAILS WILL BE READILY VISABLE AFTER INSTALLATION, WITH THE FOLLOWING DETAILS:

A) MFG NAME: **MOLEX INC.**

B) TRADEMARK OR RECOGNIZED SYMBOL OF ID.

C) CATALOGUE, STYLE, MODEL OR OTHER DESIGNATION. **130108XXXX, 20XXLED**

D) RATED INPUT VOLTAGE: **120/277 VAC**

E) FREQUENCY IN HERTZ: **50/60**

F) LAMP TYPE, SIZE AND WATTAGE: **T10 LED, 4 FEET/ 18 WATTS OR 2 FEET 10 WATTS**

G) RATED INPUT IN AMPERES, WATTS: **.6 AMPS/72 WATTS OR .33 AMPS/40 WATTS**

MARKED: "TYPE 4X INDOOR USE ONLY". DISCONNECT POWER SUPPLY BEFORE RELAMPING

THE MONTH AND YEAR OF MANUFACTURE AT LEAST SHALL BE MARKED ON THE EQUIPMENT IN A LOCATION ACCESSABLE WITHOUT THE USE OF TOOLS. DATE CODING, SERIAL NUMBERS OR EQUAL MEANS MAY BE USED.

2.3 SAFETY AGENCY APPROVALS

UL FILE #E174254

3.0 APPLICABLE DOCUMENTS AND SPECIFICATIONS

SALES DRAWING: SD-20XXLED

APPLICABLE STANDARDS: CSA C22.2 NO. 12-1982. UL 153 AS REF. UL STD #1570

INGRESS PROTECTION RATING: IP65

4.0 RATINGS

4.1 VOLTAGE

120/277 Volts AC (RMS) 50/60 Hz

4.2 CURRENT

4FT: .6 Amps, 2FT: .33 Amps

REVISION: A	ECR/ECN INFORMATION: EC No: 10691943 DATE: 5/26/15	TITLE: Wide Area Light Industrial Duty 72 Watt and 40 Watt LED Fixture	SHEET No. 1 of 3
DOCUMENT NUMBER: PS-130108-003	CREATED / REVISED BY: Paul Snagel	CHECKED BY: H Kneeland	APPROVED BY: B Woodman



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5.0 PERFORMANCE

5.1 ELECTRICAL REQUIREMENTS

ITEM	DESCRIPTION	TEST CONDITION	REQUIREMENT
1	Dielectric Strength	A factory wired luminaire shall withstand for 1 second without breakdown, the application of an ac voltage applied between live parts and non-current carrying metal parts. The voltage shall be 1240VAC.	No breakdown

5.2 MECHANICAL REQUIREMENTS

ITEM	DESCRIPTION	TEST CONDITION	REQUIREMENT
2	HANGER STRENGTH TEST	Fixture is to be suspended by 1/8" diameter rod in the intended manner. Weight of 20 pounds is gradually added at 1 minute intervals until the fixture supports a total of 80 pounds and maintained for a period of 2 minutes	Fixture is fitted with 2 velcro straps as intended. There shall be no damage to the straps.
3	Hosedown test	The luminaire shall be sprayed with water from a hose having a 1" (25.4mm) inside diameter nozzle delivering at least 65 gallons (246 l) of water per minute. The water stream is to be directed at the joints of the enclosure from a distance of 10 to 12 feet (3.0 to 3.7m) and moved along the joints at a minimum rate of 4 s per linear inch (1.6 s per cm)	There shall be no water intrusion into the fixture
4	Temperature	Fixture shall be operated in a temperature controlled environment (25° C +/- 5° C). There shall be no wind present. Temperatures will be measured via thermocouple method until all temperatures stabilize for one hour or 7 total hours, whichever comes first.	All temperatures on or within the luminaire, including those of the lamp, ballast or any other heat-producing components, shall comply with the rated temperature limit.
5	Strain Relief	A pull of 156 N (35 lb) shall be applied for 1 minute to the insulated conductor beyond the strain relief in a direction perpendicular to the plane of the entrance to the luminaire.	Movement of the conductor shall not exceed 1.6 mm (0.063").

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5.2 Environmental Requirements

ITEM	DESCRIPTION	TEST CONDITION	REQUIREMENT
6	Impact (Lens)	Globes and lenses, where not guarded, shall withstand the blow struck by a hardened steel ball, 1 inch in diameter and weighing 4 pounds, falling through a distance of 6 inches.	Visual: No Damage
7	Thermal Shock	A quantity of ice water (approx. 1 3/4 oz) at a temperature of 1.1°C shall be splashed against the lens having the highest temperature	Lens shall withstand thermal shock as covered in Clause 3.6.6.2 (see test condition) without cracking or breaking the material
8	Cold Resistance	Temperature: -40 ± 3°C	Lamp must fire within 30 seconds of application of rated voltage.

6.0 PACKAGING

Parts shall be packaged to protect against damage during handling, transit and storage.

7.0 OTHER INFORMATION

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