



# PRODUCT SPECIFICATION

## WIDE AREA LIGHT W/4 X 20W LED

### 1.0 SCOPE

This Product Specification covers the 27.25" X 6.437" X 7.375" ZONE 2, 4 LIGHT (20W EA.) WIDE AREA LIGHT

### 2.0 PRODUCT DESCRIPTION

#### 2.1 PRODUCT NAME AND SERIES NUMBER(S)

WIDE AREA LED LIGHT, SERIES NUMBER **130243**

#### 2.2 DIMENSIONS, MATERIALS, PLATINGS AND MARKINGS

OVERALL DIMENSIONS: 27.25" X 6.437" X 7.375".

HOUSING MATERIAL: ALUMINUM ALLOY

LENS: CLEAR POLYCARBONATE

GASKET/LENS HOLDER: SILICONE RUBBER

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. **130243XXXX**

D) RATED INPUT VOLTAGE: **100 - 277**

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

F) LAMP TYPE, SIZE AND WATTAGE: **CITIZEN CLL030 (20W X 4)**

G) RATED INPUT IN AMPERES, WATTS: **.67 AMPS/80W @120 VAC**

H) HAZARDOUS LOCATIONS DESIGNATION: **CLASS 1, DIV 2, GROUPS B, C AND D**

I) TEMP CODE OR OPERATING TEMP: **T4A/120° C**

J) CAUTIONS: **USE IN HAZARDOUS LOCATION. OPEN CIRCUIT 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.

THE MARKED TEMP SHALL BE THE HIGHEST TEMP ON OR WITHIN THE LUMINAIRE INCLUDING THOSE OF THE LAMP, BALLAST OR ANY OTHER HEAT PRODUCING COMPONENT.

#### 2.3 SAFETY AGENCY APPROVALS

QPS, FILE # LR1111-2

|  |   |  |                                     |
|--|---|--|-------------------------------------|
| REVISION:<br><b>B</b>                    | ECR/ECN INFORMATION:<br>EC No: <b>IPG2012-0527</b><br>DATE: <b>2013/09/16</b> | TITLE:<br><b>Wide Area LED Light<br/>4 x 20 Watt LED Fixture</b> | SHEET No.<br><b>1 of 3</b>          |
| DOCUMENT NUMBER:<br><b>PS-130243-002</b> | CREATED / REVISED BY:<br><b>Paul Snagel</b>                                   | CHECKED BY:<br><b>Hornsby Kneeland</b>                           | APPROVED BY:<br><b>Brad Woodman</b> |



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## 3.0 APPLICABLE DOCUMENTS AND SPECIFICATIONS

SALES DRAWING: SD-130234-1001

APPLICABLE STANDARD: CSA C22.2 NO. 137-M1981 (REV. 1999)

INGRESS PROTECTION RATING: NEMA TYPE 3

## 4.0 RATINGS

### 4.1 VOLTAGE/CURRENT

120 Volts AC (RMS), .67 AMPS 60 Hz / 277 Volts AC (RMS), .34 AMPS 60 Hz

### 4.2 TEMPERATURE

Operating: - 20°C to + 40°C

Non-operating: - 40°C to + 40°C

### 4.3 15 AMP CIRCUIT LIMITS

120VAC: MAX 18 FIXTURES (1536 WATTS, 12.8 AMPS)

277VAC: MAX 38 FIXTURES (3530 WATTS, 12.8 AMPS)

## 5.0 PERFORMANCE

### 5.1 ELECTRICAL REQUIREMENTS

| ITEM | DESCRIPTION         | TEST CONDITION   | REQUIREMENT  |
|------|---------------------|--|--------------|
| 1    | Dielectric Strength | A factory wired luminaire shall withstand for 1 minute without breakdown, the application of an ac voltage applied between live parts and non-current carrying metal parts. The voltage shall be 1000V plus twice the rated voltage. | No breakdown |

### 5.2 MECHANICAL REQUIREMENTS

| ITEM | DESCRIPTION   | TEST CONDITION  | REQUIREMENT   |
|------|---|---|---|
| 1    | Vibration Test  | The distance of horizontal movement on each of the back and forward directions is to be 1/32 inch at a frequency of 1750 cycles per minute $\pm$ 5%. The luminaire is to be subject to 35 hours of continuous vibration | There shall be no damage to or loosening of any part (except the lamp) of a luminaire assembly when subject to the vibration test |
| 2    | Luminaires shall not cause excessive heating of lighted objects | The luminaire shall be placed with the light source directed toward the vertical test surface as close as the design will allow, but not less than 15cm   | The temperature on the surface does not exceed 50°C.  |

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|----------|----------------------|---|--|
| <b>3</b> | <b>Temperature</b>   | All temperatures on or within the luminaire, including those of the LEDs, driver or any other heat-producing components, shall comply with the temperature limitations required.      | <b>Ignition temperature code:<br/>120°C T4A</b>                    |
| <b>4</b> | <b>Strain Relief</b> | 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. | <b>Movement of the conductor shall not exceed 1.6 mm (0.063").</b> |

## 5.3 Environmental Requirements

| ITEM     | DESCRIPTION                            | TEST CONDITION  | REQUIREMENT   |
|----------|--|---|---|
| <b>1</b> | <b>Impact (Lens)</b>                   | 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.                           | <b>Visual: No Damage</b>  |
| <b>2</b> | <b>Weatherproofness (wet location)</b> | A luminaire intended for wet or damp locations shall be exposed to a moist atmosphere at a relative humidity of 95% and a temperature of 30 - 35°C for 72 hours.  | <b>No moisture shall be found on any electrical conductors within the luminaire enclosure.</b>  |
| <b>3</b> | <b>Thermal Shock</b>                   | A quantity of ice water (approx. 1 ¼ oz) at a temperature of 1.1°C shall be splashed against the lens having the highest temperature  | <b>Lens shall withstand thermal shock as covered in Clause 3.6.6.2 (see test condition) without cracking or breaking the material</b> |
| <b>4</b> | <b>Accelerated Aging (gasket)</b>      | Gaskets shall be subjected to an accelerated aging test in which the gasket is exposed, for a period of 100 hrs, to a temperature 50° C higher than the temperature to which it is subjected in normal use. | <b>Visual: No Damage</b>  |
| <b>5</b> | <b>Cold Resistance</b>                 | Temperature: -40 ± 3°C  | <b>Lamp must fire within 30 seconds of application or rated voltage.</b>  |

## 6.0 PACKAGING

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

## 7.0 OTHER INFORMATION

C22.2 NO. 12, 5.4.1 INSTRUCTIONS AND WARNINGS SHALL BE PROVIDED WITH AN EXPLODED VIEW IDENTIFYING PARTS.

|   |  |   |  |
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