# IECEx Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION
## IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

| | | | |
|---|---|---|---|
| Certificate No.: | **IECEx UL 21.0007X** | Page 1 of 3 | Certificate history: |
| Status: | **Current** | Issue No: 0 | |
| Date of Issue: | 2021-10-25 | | |
| Applicant: | **Banner Engineering Corp.**<br>9714 10th Avenue N<br>Minneapolis, MN 55441<br>**United States of America** | | |
| Equipment: | **LED Luminaires, Model HLS28** | | |
| Optional accessory: | | | |
| Type of Protection: | **Increased Safety "ec"** | | |
| Marking: | Ex ec IIC T4 Gc<br>-20°C ≤ Ta ≤ +60°C for models with motion sensor<br>-20°C ≤ Ta ≤ +70°C for all other models | | |

Approved for issue on behalf of the IECEx Certification Body: **Katy A. Holdredge**

Position: **Senior Staff Engineer**

Signature: (for printed version)

Date: 2021-10-25

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.

Certificate issued by:

**UL LLC**
**333 Pfingsten Road**
**Northbrook IL 60062-2096**
**United States of America**

BANNER P/N
2224 Rev. -

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Date of issue: 2021-10-25 Issue No: 0

Manufacturer: **Banner Engineering Corp.**
9714 10th Avenue N
Minneapolis, MN 55441
**United States of America**

Additional manufacturing locations:

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements.This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

**STANDARDS** :
The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

**IEC 60079-0:2017** Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

**IEC 60079-7:2017** Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:5.1

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

**TEST & ASSESSMENT REPORTS:**
A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Report:

US/UL/ExTR21.0007/00

Quality Assessment Report:

GB/FME/QAR13.0015/07

# IECEx Certificate of Conformity



**EQUIPMENT:**
Equipment and systems covered by this Certificate are as follows:

Luminaire models HLS28 Series are linear LED luminaires intended for adjustable wall or ceiling mounting. The luminaires are provided in different lengths and different LED colors. Mounting brackets are provided for proper installation.

**Please see Annex for additional information.**

**SPECIFIC CONDITIONS OF USE: YES as shown below:**

- Must be installed within an enclosure only accessible with a tool, such as a key, and appropriately rated for the application and the environment.
- The luminaires shall be installed in an enclosure that provides a degree of protection not less than IP54 in accordance with IEC 60079-0.

**Annex:**

Annex to IECEx UL 21.0007X Issue 0_1.pdf

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Certificate No.: IECEx UL 21.0007X

Issue No.: 0



**TYPE DESIGNATION:**

Luminaire models HLS28 Series are linear LED luminaires intended for adjustable wall or ceiling mounting. The luminaires are provided in different lengths and different LED colors. Mounting brackets are provided for proper installation.

Nomenclature:

Single Color Models

| | |
|---|---|
| I. | Series Designation:<br><br>HLS28 – Basic series designation for single color luminaires |
| II. | Cascadable<br><br>C - Cascadable<br>X – Non-cascadable |
| III. | LED Color<br><br>W = Cool White<br>WW = Warm White<br>R = Red<br>G = Green<br>B = Blue<br>Y = Yellow |
| IV. | Luminaire Length<br><br>145 = 145mm<br>285 = 285mm<br>430 = 430mm<br>570 = 570mm<br>710 = 710mm<br>850 = 850mm<br>990 = 990mm<br>1130 = 1130mm |
| V. | Window<br><br>Blank = Clear plastic<br>D = Diffused plastic |
| VI. | Construction<br><br>X = Not sealed<br>S = Sealed |
| VII. | Control<br><br>Blank = None<br>M = Motion switch |
| VIII. | Connector |

| | |
|---|---|
| | Blank = 2m integral cable<br>Q = Integral 4-pin M12 QD<br>W/XX = cabled unit with length XX feet |
| IX | -xxxxxxx = All models may have prefixes and/or suffixes of up to seven alphanumeric characters not impacting hardware or emission profile, or product safety approval. |

Three to five color models

| | |
|---|---|
| I. | Series Designation:<br><br>HLS28 – Basic series designation for three to five color luminaires |
| II. | Cascadable<br><br>C - Cascadable<br>X – Non-cascadable |
| III. | LED Color 1-5 and Control<br><br>WGRXX3 = White, Green, and Red with override control<br>GYRXX3 = Green, Yellow, and Red with override control<br>WYRXX3 = White, Yellow, and Red with override control<br>WGRYB5 = White, Green, Red, Yellow, and Blue with binary control<br>WGRXX6 = White, Green, and Red with I/O Block control<br>WYRXX6 = White, Yellow, and Red with I/O Block control<br>GYRXX6 = Green, Yellow, and Red with I/O Block control |
| IV. | Luminaire Length<br><br>0285 = 285mm<br>0570 = 570mm<br>0850 = 850mm<br>1130 = 1130mm |
| V. | Window<br><br>Blank = Clear plastic<br>D = Diffused plastic |
| VI. | Construction<br><br>X = Not sealed<br>S = Sealed |

| | |
|---|---|
| VII. | Voltage<br><br>24 = 24V |
| VIII. | Connector<br><br>Blank = 2m integral cable<br>Q = Integral 4-pin M12/Euro-style quick disconnect<br>W/XX = cabled unit with length XX feet |
| IX | -xxxxxxx = All models may have prefixes and/or suffixes of up to seven alphanumeric characters not impacting hardware or emission profile, or product safety approval. |

The relation between the ambient temperature and the assigned temperature class is as follows:

| **Ambient temperature range** | **Temperature Class** |
|---|---|
| -20 °C ≤ Ta ≤ +60 °C (for models with motion sensor) | T4 |
| -20 °C ≤ Ta ≤ +70 °C (for all other models) | T4 |

## MARKING

Marking has to be readable and indelible; it has to include the following indications: