



### LUMINANCE RATING

|                      |            |            |            |
|----------------------|------------|------------|------------|
| Brightness in mcd/m2 | 10 Minutes | 60 Minutes | 90 Minutes |
| Code Requirement     | 30         | 7          | 5          |
| NightBright USA      | 50         | 26         | 11         |

Source: Vtec Laboratories - ASTM E2072  
Excitation Illuminance: 1 ft/c  
Excitation Duration: 60 minutes

|                      |           |            |            |
|----------------------|-----------|------------|------------|
| Brightness in mcd/m2 | 1 Minutes | 10 Minutes | 60 Minutes |
| NightBright USA      | 3275      | 415        | 55         |

DIN Standard  
Excitation: Xe Lamp 1000 lx, 5 min.

**Fulfill the following codes:**

|                  |  |
|------------------|--|
| <b>NFPA 1</b>    | Fire Code 2009 & 2006) 14.14.4 & 14.14.7.2     |
| <b>NFPA 101</b>  | Life Safety Code 2009, 2006) 7.10.4 & 7.10.7.2 |
| <b>IBC</b>       | (International Building Code 2009) 1011.4      |
| <b>OSHA 1910</b> | (E-1910.35 & E 1910.37)                        |

**Conform to the following standards:**

ETL listed to UL-924. Standard for Safety of Emergency Lighting and Power Equipment.  
 ETL listed to UL-1994. Standard for Photoluminescent Path Markers and Signs.  
 ETL listed to UL-746C. (Impact Test) For Floor Proximity Installation.  
 ASTM E 2072 Standard for Photoluminescent Brightness.  
 ASTM D635, Standard Test Method for Rate of Burning and/or Extent and Time of Burning of Plastics in a Horizontal Position. Is not flammable and does not issue toxic gases when exposed to heat, fire or flame.  
 ASTM D 4828-94 (2003). Standard Test Methods for Practical Washability of Organic Coatings.  
 ASTM D 3648-2004 Standard Practices for the Measurement of Radioactivity.  
 ISO 7010 E001, E002, E003, E004 Graphical symbols -- Safety colors and safety signs -- Registered safety signs.  
 ISO 17398:2004 Classification, performance and durability of safety signs.  
 ANSI Z535.1 American National Standard. For Safety Colors.  
 Bombardier BSS 7239 (Toxicity)  
 RE 6-1 and RS 6-1A Standards. Meets and exceeds New York City Building Code Reference.  
 MEA 462-05-M, Code Section 27-383(b). Have been approved by the City of New York Department of Buildings.

**Product Data**

Physical Properties:

| Property                      | Description   |
|-------------------------------|---|
| Visual Appearance             | Glossy appearance, light to medium yellow color against medium to dark green color. |
| Application Surface           | Any mountable surface in any gradient   |
| Application Temperature Range | Any range, no temperature restrictions.   |
|                               |   |
| Property                      | Values  |
| Thickness                     | 1/18 inch   |
| Service Temperature           | -30°F to 220°F -34°C to 94°C  |
| Applied Shrinkage             | NONE  |

**Chemical Characteristics:**

Resists mild corrosives, mild acids, mild alkalis, salt, solvents and alcohol.  
 Washability meets or exceeds **ASTM D 4828-1994 (2003)**. Signage tested after 100 sponge cycles using a simple green all purpose cleaner over *Paper Mate Flair* felt tip pen (water based); *Leneta Staining Medium Item No. ST – 1* (mineral oil borne soilant); *Crayola Crayon*; and *Wet 'n' Wild 514 Cherry Frost Lipstick*. There was no change in gloss, color or luminescence and the signage demonstrated no erosion. Further, signage is solvent and alcohol resistant.

**Toxicity Test Results:**

| GAS | Average PPM | Critical Concentration PPM |
|-----|-------------|----------------------------|
| CO  | 127.5       | 3,500                      |
| HCN | 1.061       | 100                        |
| SO2 | 5.657       | 100                        |
| HCl | 0.177       | 500                        |
| HF  | 0.000       | 100                        |

**Toxicity conforms to Bombardier BSS 7239**

**Radioactivity per ASTM D 3648-2004.** The test demonstrated there were no integral alpha, beta and / or gamma radiation above background noise radiation levels and the test specimens were determined to be **non-radioactive** as tested to the referenced standard.

NightBrightUSA assumes no responsibility for any injury, loss or damage arising out of the use of a product that is not of our manufacture. Where reference is made in literature to a commercially available product, made by another manufacturer, it shall be the user's responsibility to ascertain the precautionary measures for its use outlined by the manufacturer.

**IMPORTANT NOTICE:**

All statements, technical information and recommendations contained herein are based upon tests performed for fees paid by us to professional testing organizations and agencies and we believe these tests to be highly reliable, but the accuracy or completeness thereof is not guaranteed, and the following is made in lieu of all warranties, or conditions express or implied. Sellers and manufacturers only obligation shall be to replace such quantity of the product proved to be defective. Neither seller nor manufacturer shall be liable for any injury, loss or damage, direct, special or consequential, arising out of the use of or the inability to use the product. Statements or recommendations not contained herein shall have no force or effect unless in an agreement signed by officers of seller and manufacturer.

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