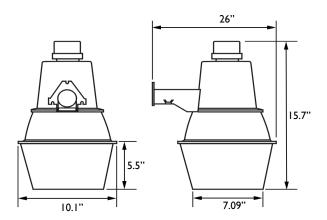
DOWNLIGHT.X

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PRODUCT





| CATALOG #: | TYPE: |
|--------------|-------|
| PROJECT: | |
| COMMENTS: | DATE: |
| PREPARED BY: | |

Product Information

The Downlight X is a corrosion-resistant, security LED fixture that optimizes direct downlight illumination.

This LED lighting fixture features corrosion-resistant die-cast aluminum housing.

Applications: Architectural, Parking Lots, Walkways and multiple outdoor lighting applications.

Performance Summary

| Lumens Range: | 3,129m – 4,431lm |
|----------------------------------|--------------------------------------|
| Lumens Per Watt (Typical): | 141 |
| CRI: | Minimum 70 CRI. Custom CRI available |
| | upon request. |
| CCT (Typical): | 3000K, 4000K, 5700K |
| Manufactured in the U.S. with pa | arts from U.S. and imported. |

Aluminum / Custom UV-Stabilized Acrylic

Pole Mount

Fixture Information Housing:

Lens:

Mounting:

Surge protection:

| Diffusion: | None |
|----------------------------------|------------------------|
| Specifications | |
| UL Listed: | Wet Locations |
| Length: | 26" |
| Height: | " |
| Width: | 13.2" |
| Weight: | 6.46lb |
| Electrical System Charact | eristics / Data |
| Standard AC input: | 120-277 VAC |
| EMI filter: | 47CFR, part 2, part 15 |
| Power factor: | .>9 |
| Total harmonic distortion: | <20% |

IEC/EN 61000-4-5 EMC test standard

Electrical characteristics and performance data verified by independent 3rd party testing lab. For full reports and results, visit www.noribachi.com/reports.

| Ordering Information Sample Catalog Number: HEX-021-WW-B-MT-DLX | | | | | | |
|--|------------------|---|---------|------------------|--|---|
| LIGHT ENGINE | DRIVE CURRENT | COLOR TEMPERATURE | VOLTAGE | FIXTURE CODE | OPTIONAL UPGRADES | OPTIONAL BEAM SPREAD AND TYPE DISTRIBUBUTION |
| HEX-021 HEX-021 | A B | CW – COOL WHITE (5700K TYPICAL) NW – NEUTRAL WHITE (4000K TYPICAL) WW – WARM WHITE (3000K TYPICAL) | мт | DLX- DOWNLIGHT.X | TLPC - TWIST LOCK PHOTOCELL 120/277 COL-[FAL] - CUSTOM COLOR COAT - CUSTOM COAT EPOXY - EPOXY COATING SGRI - 100/ -277V SURGE PROTECTOR 010V - 1-10V DIMMING FUNCTIONALITY STEP - STEP DIMMING FUNCTIONALITY POLE - ALSO AVAILABLE. SEE SEPARATE POLE SPEC SHEET AT NORIBACHI.COM/ POLES | 80D – OPTIONAL 80° BEAM SPREAD TI - OPTIONAL TYPE I DISTRIBUTION T2- OPTIONAL TYPE 2 DISTRIBUTION T3- OPTIONAL TYPE 4 DISTRIBUTION T4 – OPTIONAL TYPE 4 DISTRIBUTION TRS or TLS – OPTIONAL RIGHT OR LEFT SLANTED DISTRIBUTION |

Warranty:

Five-Year Limited Warranty. Optional 10-Year Manufacturer's Warranty Available. Full Warranty Terms Available At www.noribachi.com/products/warranty

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ELECTRICAL

Construction

Corrosion-resistant die-cast aluminum housing with UV-Stabilized acrylic lens.

Optics

High brightness, high efficiency LEDs. Color temperature options include Cool White (5700K typical), Neutral White (4000K typical) Warm White (3000K typical) with minimum 70 CRI. Custom RGBW colors available. 120° beam angle standard. Optional 80° beam angle available.

Controls

Optional controls include100-722V (SGR1) and 480V (SGR2) Surge Protectors. 0-10V (010V) and Step (STEP) Dimming functionality. 120-277V Twist lock photocell (TLPC).

Mounting

Poles are available for this fixture. See noribachi.com/poles for more information.

Driver

Available in A (350mA) drive current and B drive current (525 mA). Highly reliable. Suitable for dry, damp and wet locations. Compliant to worldwide safety regulations for lighting.

Testing Compliance

UL 1598 Issued: 2008/09/17 Ed:3 Rev:2012/10/17 UL Standard for Safety Luminaires CSA C22.2#250.0 Issued: 2008/09/17 Ed:3 Luminaires; General Instruction No.1 2010/01/11, General Instruction No.2 2012/10/17.

Electrical System

Surge protection meets 10KV/5KA per ANSI/IEEEC62.41. Driver meets maximum harmonic distortion (THD) of 20% and is ROHS compliant. Power Factor = > 0.9.

Ambient Temperature

-40°C to +65°C (-40°F to + 149°F).

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| Electrical Load | | | | | |
|-----------------|-------|---------------------------------|---------------------------------|---------------------------------|-----------------------------|
| LIGHT ENGINE | DRIVE | DRIVE CURRENT (AMPS@120V) | DRIVE CURRENT (AMPS@277V) | DRIVE CURRENT (AMPS@480V) | SYSTEM POWER* (WATTS) |
| HEX-021 | А | 0.18 | 0.08 | 0.04 | 21.03 |
| HEX-021 | В | 0.26 | 0.11 | 0.07 | 31.46 |
| | - | | | | *Ideal Wattage |

| Operating Characteristics (Typical @5700K CCT) | | | | | |
|--|-------|----------------|---------------------------|--------------------|--|
| LIGHT ENGINE | DRIVE | LUMENS (T5) | INPUT POWER (WATTS) | LUMENS PER WATT | |
| HEX-021 | А | 3,129 | 21.03 | 148.81 | |
| HEX-021 | В | 4,431 | 31.46 | 140.87 | |

Manufacturing

Manufactured in beautiful Harbor City, CA.ARRA Compliant. NAFTA Compliant.Test and burn-in of 100% of all luminaries before shipment. No less than 8-years experience in manufacturing LED-based products.

Note

Specifications subject to change without notice.

Actual performance may differ as a result of end-user environment application. Actual wattage may differ by +/-8%.

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PERFORMANCE / DISTRIBUTION

| Power And Lumens By Light Engine | | | | | | | |
|----------------------------------|-------|------|----------------|----------------|----------------|----------------|----------------|
| DISTRIBUTION | | | | | | | |
| LIGHT ENGINE | DRIVE | ССТ | TI (LUMENS) | T2 (LUMENS) | T3 (LUMENS) | T4 (LUMENS) | T5 (LUMENS) |
| HEX-021 | A | 5700 | 3,075 | 2,436 | 2,430 | 2,816 | 3,129 |
| HEX-021 | В | 5700 | 4,354 | 3,450 | 3,441 | 3,988 | 4,431 |

CATALOG #:

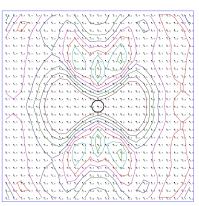
COMMENTS:

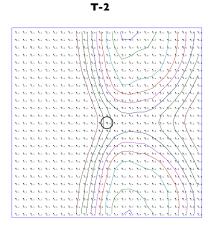
PREPARED BY:

PROJECT:

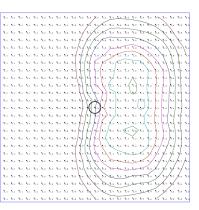
Type Distribution HEX-021-B

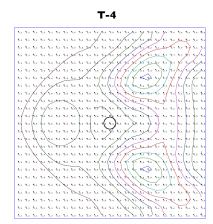




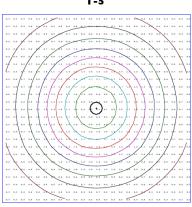


т-3





Т-5



Distribution

•120° Standard Beam Spread.

•80° Optional Beam Spread Available.

•Other Light Engine Type Distribution available upon request.

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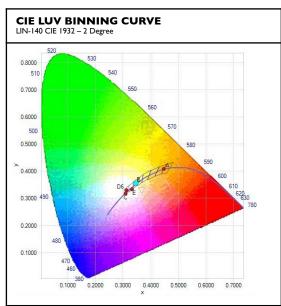


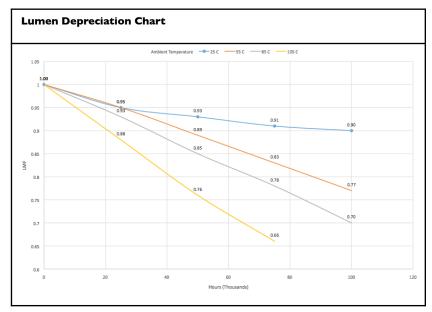
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PERFORMANCE / DISTRIBUTION





| Lumen Mai | Lumen Maintenance Factors (B Drive) | | | | | |
|-----------|-------------------------------------|----------------------------|----------------------------|----------------------------|-----------------------------|--|
| AMBIENT | INITIAL LMF | 25K HR PROJECTED LMF | 50K HR PROJECTED LMF | 75K HR PROJECTED LMF | 100K HR PROJECTED LMF | |
| 25°C | 1.00 | 0.95 | 0.93 | 0.91 | 0.90 | |
| 55°C | 1.00 | 0.95 | 0.89 | 0.83 | 0.77 | |
| 85°C | 1.00 | 0.93 | 0.85 | 0.78 | 0.70 | |
| 105°C | 1.00 | 0.88 | 0.76 | 0.66 | n/a | |
| | | | | | | |

Each temperature has an independent initial value. In accordance with IESNA TM021011, Projected Values represent interpolated value based on time durations that are within six times (6X) the IESNA LM-80-08 total test duration (in hours) for the device under testing (DUT) i.e. the packaged LED chip). In accordance with IESNA TM-21-11, Calculated Values represent time durations that exceed six times (6X) the IESNA LM-80-08 total test duration (in hours) for the device under testing (DUT) i.e. the packaged LED chip)

| Lumen Multiplier | | | | |
|---------------------|------------------|--|--|--|
| AMBIENT TEMPERATURE | LUMEN MULTIPLIER | | | |
| 10°C | 1.032 | | | |
| 15°C | 1.021 | | | |
| 25°C | 1.000 | | | |
| 40°C | 0.968 | | | |
| 50°C | 0.946 | | | |

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| Luminaire EPA Chart | | | | |
|---------------------|--------------------------|-----|--|--|
| - | Single | 0.5 | | |
| | ND-180° | 1.0 | | |
| T - - | ND-90° | 0.8 | | |
| | NT-90° | 1.7 | | |
| ** | NT-120° | 1.7 | | |
| ■ | NQ-90° | 1.9 | | |
| Note: Mounting ch | anges fixture EPA. Pleas | e | | |

contact Noribachi for additional information.



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OPTIONAL UPGRADES

480V FOR LIGHT ENGINES <150W ORDER CODE: HVI



480V FOR LIGHT ENGINES >150W ORDER CODE: HV2



DIMMING ORDER CODE: 010V ORDER CODE: STEP Appearance And Specifications: •010V = 1 – 10V Dimming Functionality •STEP = Step Dimming Functionality



SURGE PROTECTOR ORDER CODE: SGRI ORDER CODE: SGR2 Appearance And Specifications: •100V -120V Surge Protector •480V Surge Protector



TWIST LOCK PHOTOCELL ORDER CODE: TLPC Appearance And Specifications: •Filtered Silicon Photo Sensor •Built-in 3-6 Second Turn-off Delay •Green Cover with Blue Base •Powedercoat finish



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