For rows over 12' (R) fixtures will be shipped in sections. Joining hardware for field installation is provided.

COVER UP
Partially diffuse dust cover enhances indirect lighting performance and preserves LED lifespan.

CORE CAPACITY
Integral 0-10V dimming driver down to 1%. Additional options include Lutron, DMX, and DALI control protocols.

Integral IOTA slim 12W emergency battery pack provides an easy solution for egress compliance.

SLEEK & STRONG
A stylish rectilinear aluminum extrusion made of 60% recycled material provides ultimate durability and functionality.

LIMITLESS APPLICATION
The variety of mounting options available create unlimited possibilities to play with light in space.

MULTIFACETED DISTRIBUTION
Versatile design application is achieved through selection of available symmetric wide, symmetric narrow, and asymmetric light distribution options.

POWERFUL PERFORMANCE
High performance Nichia 80+ CRI LEDs provide an optimal light source for tailored lighting design.

PROPRIETARY OPTICS
HE Tech™ lens technology cleanly combines optical diffusion and high performance reflector design to deliver beautifully refined light with uncompromised performance.

Integrations is a comprehensive product line comprised of nominal and exact length fixtures, continuous rows, and patterns comprised of 90° illuminated corners. A completely custom ordering process allowing unique modifications and non-90° transitions is available through collaboration with Design Assist.

Elements is a simplified product line comprised of 4', 8', and 12' nominal length fixtures that can be joined to create continuous rows.

4' 8' 12'
**COVER UP**
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**ELEMENTS**
Elements is a simplified product line comprised of 4’, 8’, and 12’ nominal length fixtures that can be joined to create continuous rows.

- **4’**
- **8’**
- **12’**

**INTEGRATIONS**
Integrations is a comprehensive product line comprised of nominal and exact length fixtures, continuous rows, and patterns comprised of 90° illuminated corners.

**CUSTOM**
A completely custom ordering process allowing unique modifications and non-90° transitions is available through collaboration with Design Assist.

For rows over 12’ (R) fixtures will be shipped in sections. Joining hardware for field installation is provided.

**LIMITLESS APPLICATION**
The variety of mounting options available create unlimited possibilities to play with light in space.

**MULTIFACETED DISTRIBUTION**
Versatile design application is achieved through selection of available symmetric wide, symmetric narrow, and asymmetric light distribution options.

**CORE CAPACITY**
Integral 0-10V dimming driver down to 1%. Additional options include Lutron, DMX, and DALI control protocols. Integral IOTA slim 12W emergency battery pack provides an easy solution for egress compliance.
LIGHT OUTPUT

**DISTRIBUTION**
- Indirect Symmetric Wide
- Indirect Symmetric Narrow
- Indirect Asymmetric
- Direct Symmetric

**OUTPUT**
- LH: High output - 10 W/ft
- LS: Standard output - 5 W/ft
- C: Custom tuned output - Specify Wattage

**LIGHT LOSS FACTORS**
- LH: Baseline
- LS: 50%
- 4000K: Baseline
- 3500K: 97%
- 3000K: 93%
- 80+CRI: Baseline
- 90+CRI: 80%

PHOTOMETRIC DATA

**INDIRECT SYMMETRIC WIDE**

- **ILH - 4000K - DUST COVER**
  - Lumens: 673 lm/ft
  - Input watts: 9 W/ft
  - Efficacy: 75 lm/W

**INDIRECT SYMMETRIC NARROW**

- **ILH - 4000K - DUST COVER**
  - Lumens: 912 lm/ft
  - Input watts: 9.6 W/ft
  - Efficacy: 95 lm/W

**INDIRECT ASYMMETRIC**

- **ILH - 4000K - DUST COVER**
  - Lumens: 670 lm/ft
  - Input watts: 9.6 W/ft
  - Efficacy: 70 lm/W

DIRECT SYMMETRIC

- **DLH - 4000K - HE TECH**
  - Lumens: 921 lm/ft
  - Input watts: 9.7 W/ft
  - Efficacy: 95 lm/W

SAMPLE INSTALLATION - OPEN ROOM

**INDIRECT / LH-SYMMETRIC / DIRECT / LH / HE / 4000K**

- Room dimensions: 30 ft x 30 ft x 12 ft
- Reflectance: 80% / 50% / 20%
- Mounting height: 10 ft A.F.F.
- Fixture length: 4 ft
- Calculation grid: 2 ft x 2 ft
- Calculation plane (horizontal): 2.5 ft A.F.F.
- Average Illuminance: 34 fc
- Fixture spacing: 12 ft x 12 ft
- Uniformity: 1.9:1 (avg/min)
STANDARD PATTERNS

MOUNTING LENGTHS

CORNER DETAIL

JOINING PINS

WELDED CORNER
LINEAR DIMENSIONS

Elements - 4', 8', and 12' nominal length individual fixtures that can be joined to create continuous row lengths.

Integrations - Nominal or exact lengths to the nearest 1/8th of an inch available as individual fixtures or joined to create continuous row lengths, minimum fixture lengths is 12 inches. Patterns comprised of 90 degree precisely welded fully illuminated corners provide a multitude of geometric options and architectural transitions.

Custom - Contact Design Assist for modifications to product not detailed within Elements or Integrations specification sheets.

OPTICS

He Tech™ patented high efficacy extruded diffuse acrylic lens technology with integrated opaque white reflector delivers superior lumen output with optimal uniform lens surface luminance for direct distribution. A rigid partially extruded dust cover lens optimized for indirect LED performance delivers 92% transmittance.

LED LIGHT SOURCE

Custom manufactured linear board array uses high performance Nichia® LED in combination with a performance driven heat sink technology. Tested in accordance with LM79 and LM-80; L70>60,000hr; operated at reduced output for high efficacy and lumen maintenance, 3000K, 3500K, and 4000K with 80+ CRI standard; other color temperatures and 90+ CRI available upon request, contact factory. LED color variation maintained at a 3-step MacAdam ellipse (SDCM 3x). LEDs are available in Low, Standard, and High outputs. Refer to photometry for delivered luminens. Custom output available in the range 25% to 125% of high output, contact factory.

LED DIMMING DRIVER

Factory tuned constant current electronic 0-10V control dimming driver is standard. Specification grade dimming down to 1%. Driver life of 50,000 hrs with ambient operating temperature range of -30°C to 50°C, maximum case temperature of 75°C. Electrical specifications at maximum driver load: PF >0.9, THD <20%, >85% Efficiency. Other available drivers include Lutron Hi-lume 1% EcoSystem LED Driver (LDE1) with Soft On, Fade to Black dimming technology; and DMX and DALI protocol drivers. Other Lutron and specialty drivers available, contact factory.

EMERGENCY

This luminaire is provided with a factory installed LED emergency lighting battery pack for both normal and emergency operation, 120-277v only. This fixture integrated unit contains long-life Ni- Cad recyclable battery, 24 hour charger, and converter circuit. Test switch and charge indicator provided. Test button to be remote located within 3 feet of the luminaire, by others in accordance with local code. Emergency mode provides constant power to a nominal 12W LED load for a period of 90 minutes, delivering 1200 lumens of unwavering illumination throughout the full 90 minute emergency duration. Unless otherwise specified, the emergency battery pack will illuminate one 2 foot end in the direct portion of the fixture.

Emergency circuiting provided as a separate circuit from normal power circuit according to NEC requirements, specify circuit length and location.

CONTROLS

Low-profile integral occupancy and daylight sensors are available to deliver high performance control in an architecturally pleasing package.

Integral occupancy sensor - the sleek Wattstopper FS-205 modular plug-in system utilizes a RJ45 connector, low voltage cord, and power pack. Automatic on/off passive infrared (PIR) occupancy sensing control covers a range of 200 square feet for a specified 30 second to 30 minute time delay with an optional ambient daylight sensing function to hold lights off when specified adequate daylight level is sensed. Factory default time delay of 30 minutes and 120fc light level. Settings can be adjusted at the factory or easily in the field.

Integral daylight sensor - the sophisticated Wattstopper FD-301 is a low voltage controller using 0-10VDC input to automatically dim the electric lighting system based on daylight contribution in a 70° field of view to achieve a target illuminance using a sliding setpoint algorithm. This single zone “closed loop” daylight harvesting control system utilizes a RJ45 connector, low voltage cord, and power pack. One (1) LSR-301-S setup remote control to adjust target let levels is provided per order.

Combined occupancy and daylight sensing is achieved using both the FS-205 and FD-301 for more versatile control functionality including automatic on/off occupancy and daylight dimming response.

Other manufacturer controls may be available for product integration, contact factory.

MOUNTING

Suspension with aircraft cables or pendant stems, and full or partial span mounting available.

Aircraft cable set includes 48” standard length 1/16” stainless steel adjustable aircraft cables with secure micro grippers to field set suspension length, comes factory installed in fixture. 4-1/2” x 4-1/2” square white canopies. Cord strain also included. Power cord options available for aircraft cable. Black power cord provided for satin black and a lightanium finish, white power cord provided for all other fixture finishes unless otherwise specified.

Rigid pendant stem set includes 1/4” hollow white threaded rod for suspension and power feed, standard specification length, 1” minimum. 5” square mono point white canopies.

Swivel stem set includes 1/4” hollow white threaded rod for suspension and power feed, standard specification length, 1” minimum. 5” square mono point white 45 degree angle swivel stem.

Specify if other suspension length is required. Canopies provided as required for quantity of power feed and non power feed locations (crossbar included). Specify if other shape, size, or color is required.

Direct wall mounting is ADA compliant. Fixture mounts directly to wall surface requiring field drilled mounting and power feed holes. Factory pre-drilled holes can be drilled and tapped for ½” chase nipple, submit dimension requirements when ordering.
MOUNTING CONT'D.

Mullion blocks are used to mount fixture to a horizontal or vertical window mullion and can also be used to offset fixture from wall. ½" or 1" deep milled aluminum blocks are available standard, 3/8" and 2" deep blocks also available upon request. (2) blocks provided for fixtures 8ft or less, fixtures larger than 8ft provided with (3) blocks every 12ft. Quantity of power feed and non power feed blocks provided as required. Fixture mounting requires field drilled mounting and power feed holes. Factory pre-drilled holes can be drilled and tapped for ½" chase nipple, submit dimension requirements when ordering.

Specify if other suspension length is required. Canopies provided as required for quantity of power feed and non power feed locations (crossbar included). Specify if other shape, size, or color is required.

Partial /Full span mounting conditions utilize special expansion joint end caps to mount fixture to wall (blocking required) and feed power through the end cap, specify end feed location. Additional attachment hardware provided as required depending on partial span condition. Provide architectural details at time of ordering for inclusion in factory shop drawings; field verified dimensions required for full span mounting.

STRUCTURE

Robust, high quality 60% recycled aluminum extruded housing. 0.040" thick aluminum internal gear trays. Flat or flanged aluminum end caps. Aluminum joiner brackets. 4 lbs/ft approximate fixture weight.

FINISH

Electrostatically applied powder coat finish. Standard finish options include alightanium™, satin white, and satin black. Other colors and custom finish options available, specify RAL# or contact factory regarding custom finish requirement.

LISTING

UL/CUL rated for Damp Locations. Tested in accordance with UL 1598 and certified to CEC/CSA C22.1, NEC, ANSI/NFPA 70, and NOM-001-SEDE.

WARRANTY

Limited defect-free manufactured equipment warranty provided under normal use and proper storage for a period of one (1) year. LED products (LED boards and drivers) will be covered for a period of five (5) years. Please refer to full terms and conditions on our website.