

**CANLYTE**



# TriLyte Nordik

**Fluorescent High Bay  
for Cold Environments**





For years, refrigerated environments  
were left out in the cold while everyone else  
enjoyed the benefits of fluorescent lighting.

Now, with **TriLyte Nordik**  
this is no longer the case...

---

**CFI...Sustainable Solutions**

At CFI, sustainability is everything. In keeping with the highest manufacturing and testing standards in Canada, our locally produced and recyclable luminaires are manufactured using efficient processes designed to reduce waste. We are committed to providing you with sustainable, high quality lighting solutions through our precise, performance driven optics and our reliable luminaires designed for visual comfort and ease of installation. Coupled with intelligent control systems and sensors, our luminaires offer you endless energy and cost saving opportunities. We are committed to making sure that you have all you need to meet your most challenging specifications all the while minimizing your carbon footprint. This is who we are. You can rely on CFI for all your lighting requirements.

# Challenges of Fluorescents in **cold** environments

Standard fluorescent lamps (T5/T8) are designed for optimal operation between 25°C and 35°C. Below or above these temperatures, significant decreases in efficiencies occur. Therefore, HID (high intensity discharge) lamps were preferred in cold environments. However, with an innovative closed body design coupled with amalgam lamp technology, TriLyte Nordik offers the same high performance at -18°C as TriLyte at 25°C. Now, cold environments can enjoy all the advantages of fluorescent lighting.

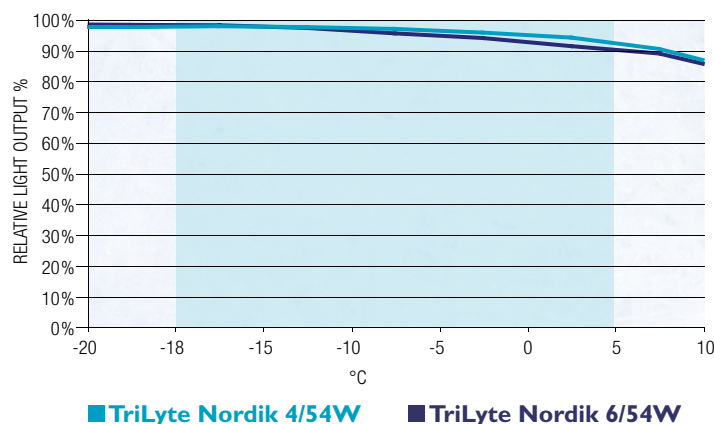
## Applications:

- Cold storage
- Walk in coolers
- Arenas

## Arena Application:

TriLyte Nordik is also available for arena application. With a rigorous body made of 20 gauge cold rolled steel and optional wireguard, this luminaire is well protected against stray hockey pucks. Consult your Canlyte representative for more information.

## TriLyte Nordik Designed for optimal performance at **-18°C**



◀ The TriLyte Nordik combines amalgam lamp technology with a unique design to produce a luminaire that is optimized for performance at -18°C.

# Advantages of Fluorescents in **cold** Environments



- ▶ **Energy savings of approximately 25%** – Less watts are needed to meet target illumination levels
- ▶ **High CRI** – Better colour rendering increases visual comfort and facilitates the completion of tasks
- ▶ **Colour consistency and lumen output** – When ordered with CFI recommended T5HO amalgam lamps, expect consistent colour and lumen output throughout the life of the lamp
- ▶ **Less heat** – With less heat released into the cold environment, the load on refrigeration units is decreased translating into additional savings

## TriLyte Nordik = Energy Savings

With TriLyte Nordik, experience approximately **25%** in energy cost savings from reduced input wattage alone compared to an HID system. The reduced heat output also results in approximately **25%** less BTU production translating in additional energy cost savings.

<b>Freezer Aisle</b> (200' x 9' x 30'h)			
	<b>Nordik 4x54</b>	<b>Nordik 6x54</b>	<b>High Performance 400W Pulse Start HID</b>
Avg. Horizontal Illuminance	31 fc	34 fc	31 fc
Avg. Vertical Illuminance	17 fc	22 fc	17 fc
W/ft <sup>2</sup>	1.47	1.60	2.00
Lamp Dirt Depreciation (LDD)	0.80	0.80	0.84
Lamp Light Depreciation (LLD)	0.95	0.95	0.70
Temperature Factor	1.21	1.29	1.00
Total Light Loss Factor	0.92	0.98	0.59
Efficiency	86.2%	90.1%	80.8%
Qty Luminaires	11	8	8
Total Input Watts	2640 W	2880 W	3600 W
Cost/Year (\$0.08 kW/hr)	\$1,581.47	\$1,725.24	\$2,156.54
Yearly Savings	<b>\$575.08</b>	<b>\$431.31</b>	\$0.00
Energy Savings	<b>26.6%</b>	<b>20%</b>	0%

*This scenario is based on 7,488 hours of use per year (3 8-hour shifts per day, 6 days per week) and the maintenance of at least 30 fc in a freezer warehouse aisle at -18°C.*



# TriLyte Nordik

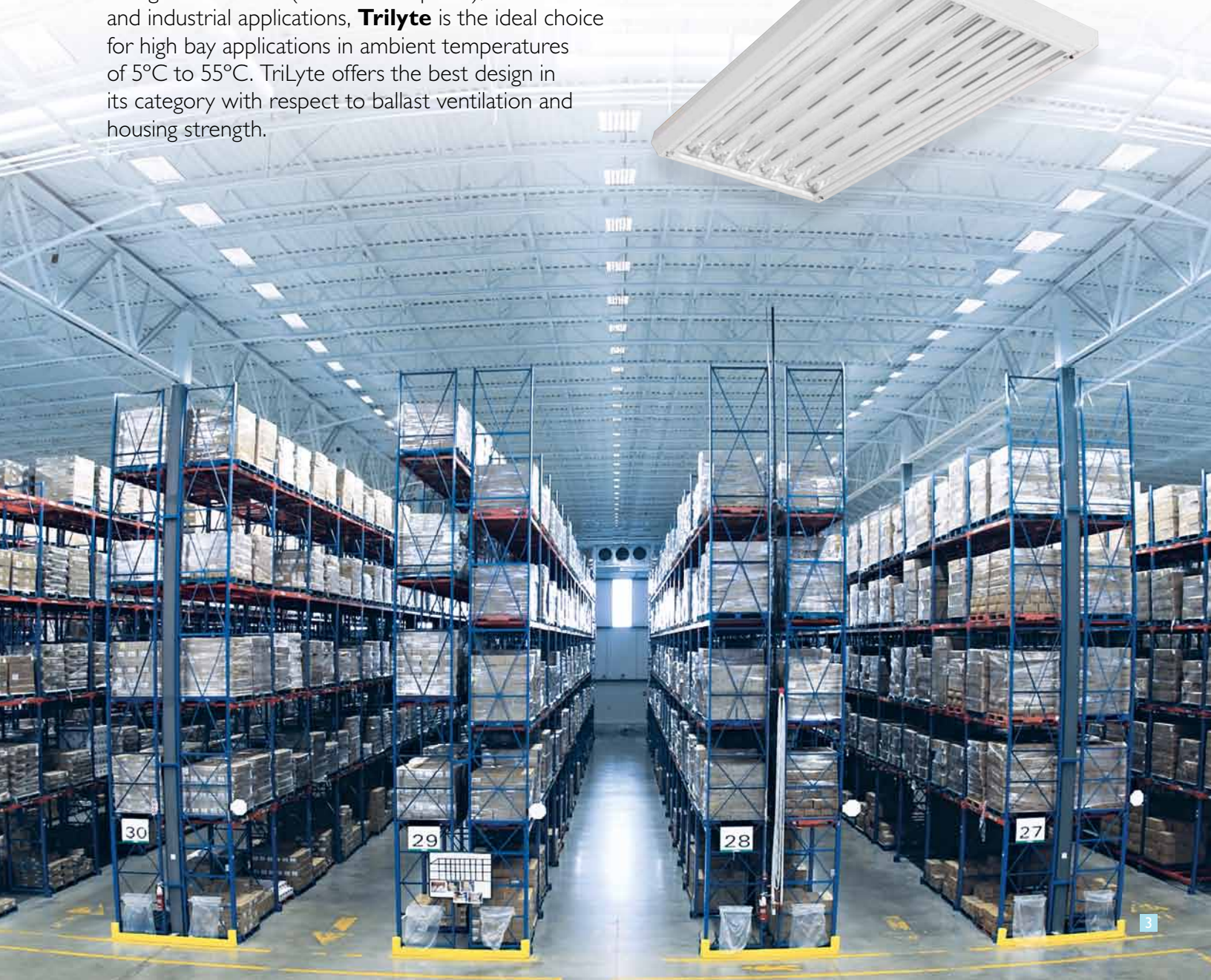
a member of the TriLyte family

**Known for its exceptional optical performance, reliability and one piece steel housing offering superior strength, TriLyte is the Canadian standard in high bay fluorescent fixtures.**



Introducing **TriLyte Nordik**, the fluorescent high bay ideally suited to cold environments. Designed and tested in refrigeration chambers at state of the art facilities in Cornwall, Ontario, TriLyte Nordik features a specially engineered housing and T5HO amalgam lamps for optimal operation in refrigerated spaces. With the same high performance at  $-18^{\circ}\text{C}$  as TriLyte at  $25^{\circ}\text{C}$ , no other system delivers this much performance in sub-zero temperatures.

Designed for trade (commercial spaces), recreational and industrial applications, **TriLyte** is the ideal choice for high bay applications in ambient temperatures of  $5^{\circ}\text{C}$  to  $55^{\circ}\text{C}$ . TriLyte offers the best design in its category with respect to ballast ventilation and housing strength.





The TriLyte Nordik is designed to achieve the same level output at -18°C than a regular fluorescent high bay at 25°C ambient temperature. With the TriLyte Nordik, experience the energy savings, high color rendering and very low lumen depreciation that were once reserved for standard ambient temperature. TriLyte Nordik is perfect for applications such as cold storage.

### Features

#### Uniquely Engineered:

- Enclosed housing with clear lens and spring latch design for easy tool less access to the lamp compartment
- One piece steel housing offers superior strength
- Post painted to withstand humidity and corrosion
- Specially designed Miro IV® specular reflector with 95% reflectivity directs the light downwards to where it is most needed
- Available in 6 lamp wide body or 4 lamp narrow body

#### Highly Efficient:

- The only luminaire offering 90.0% lighting efficiency at -18°C
- Designed for optimal performance from -18°C to 5°C using CFI recommended T5HO amalgam lamps
- High lumens per watt output well distributed in the downward plane
- Superior energy efficiency compared to HID

**Ballast:** Specify voltage (120, 277, UNV, 347) and add suffix, e.g. **UNVPV**.

**PV:** Elect. P.S., T5HO, One 4-lamp, THD <10%

**PG:** Elect. P.S., T5HO, Two 2-lamp, THD <10%

**P6:** Elect. P.S., T5HO, One 4-lamp (lamps 1, 2, 5, 6) & One 2-lamp (3, 4), THD <10%

**P7:** Elect. P.S., T5HO, Two 3-lamp (lamps 1, 3, 5 and 2, 4, 6), THD <10%

**Electrical Wiring Options:** Consult your Canlyte representative. Emergency pack N/A.

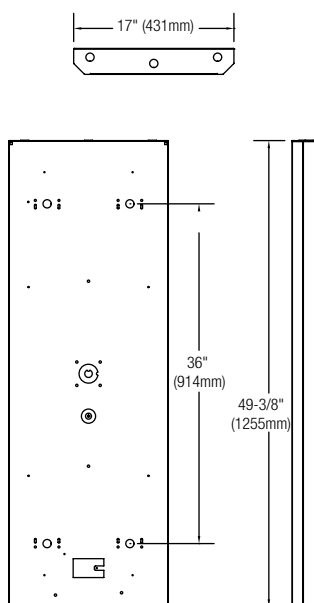
**Fusing Internal:** Fast-blow fusing. Suffix: **F**.

**Chain Hanger:** Kit 24" chain suspension kit. 2 kits required per luminaire. Order cat. no. **EE9HC**.

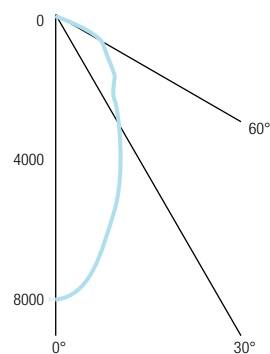
**Lamps:** CFI strongly recommends purchasing the fixture complete with special amalgam lamps to ensure maximum light output. Suffix: **6**.

**Shielding:** For clear polycarbonate lens instead of clearrylic lens, replace **GI** by **PX**.

### NARROW BODY

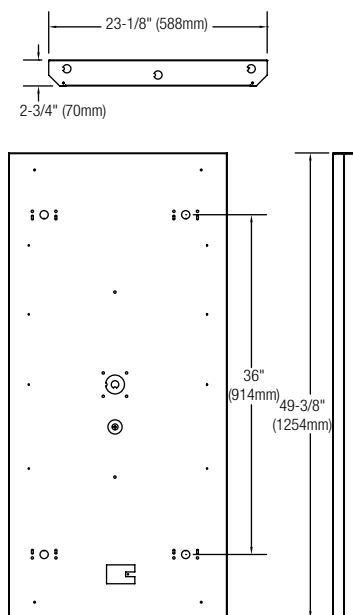


### FHC4C4DGI454UNVPV6 (Data)

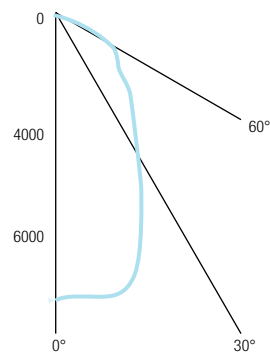


RCR	C. U.
1	96
2	88
3	82
4	76
5	70
6	66
7	60
8	56
9	52
10	48

### WIDE BODY



### FHC4C5DGI654UNVP66 (Data)



RCR	C. U.
1	100
2	92
3	85
4	79
5	72
6	67
7	62
8	58
9	53
10	49



Spring latch design for easy, toolless access to the lamp compartment.

Reference Data		Application Data*			Ordering Guide				
Efficiency	86.2%	Luminaire Spacing	FC	W/Sq Ft	Type	Lamp	Luminaire	Catalogue	
Spacing Ratio	1.2					Qty/ Type	Width	Number	
Electronic Ballast					Clear Acrylic Lens with Lamps	4-T5HO	17"	FHC4C4DGI454UNVPV6	
	Input Watts (120V)				234.0W				
	Ballast Factor				1.00				





# Empowering Success

## CFI... Sustainable Solutions

CFI is a dependable lighting partner serving the commercial, industrial and institutional markets with a complete line of innovative, energy-efficient, environmentally conscious luminaires engineered and manufactured in North America.

CFI solutions are backed by a nationwide sales force of trained Canlyte representatives offering a wide range of support services. These include computer-assisted Genesys III lighting design workstations, which simulate the lighting options and calculations for a given space, and the Lighting Concept Centre, a 7,500 square foot demonstration facility giving lighting professionals the opportunity to see lighting solutions in action.

For more information, contact:

**CFI**

A Philips group brand

3015 Louis-Amos  
Lachine, QC H8T 1C4  
Phone: (514) 636-0670  
Fax: (514) 636-0460  
Website: [www.canlyte.com](http://www.canlyte.com)  
Email: [info@canlyte.com](mailto:info@canlyte.com)

Catalogue #CG298E

Version française disponible.

Printed in Canada. Copyright 2010 Philips Group.

We reserve the right to change details of design, materials and finish that will not alter installed appearance or reduce function and performance.



Some luminaires use fluorescent or high intensity discharge (HID) lamps that contain small amounts of mercury. Such lamps are labeled "Contains Mercury" and/or with the symbol "Hg." Lamps that contain mercury must be disposed of in accordance with local requirements. Information regarding lamp recycling and disposal can be found at [www.lamprecycle.org](http://www.lamprecycle.org).