

PHILIPS

Day-Brite

CFI

Industrial

TriLyte Nordik

T5HO, 4 or 6 lamp



Project: _____
 Location: _____
 Cat.No: _____
 Type: _____
 Lamps: _____ Qty: _____
 Notes: _____

The Philips Day-Brite / Philips CFI TriLyte Nordik industrial is designed to achieve the same level output at -18°C as 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 was once reserved for standard ambient temperature.

Ordering guide

Example: FHC4C4DGI454UNV-1/4-EB

Family	Length	Reflector	Width	Light Direction	Lens Type	Lamps/ x-section	Lamp Type (by others)	Voltage	Ballast	Options
FHC	4	C		D			54	—	—	
FHC TriLyte Nordik	4 4'	C Contoured Specular Inside Reflector	4 17" (4 lamp) 5 23" (6 lamp)	D Direct	GI Sealed door and lens PX Clear polycarbonate lens	4 4 lamp (17" housing) 6 6 lamp (23" housing)	54 54WT5HO	UNV Universal voltage, 120-277V 120 120V 277 277V 347 347V	1/4-EB One 4 lamp Electronic Ballast 1/4-EB-2LS One 4 lamp Electronic Ballast with 2 level switching 2/2-EB Two 2 lamp Electronic Ballasts 2/3-EB Two 3 lamp Electronic Ballasts 3/2-EB Three 2 lamp Electronic Ballasts 1/42-EB One 4 lamp and one 2 lamp Electronic Ballast	GLR Fusing WC3 Wired 3' Cord and WP3 Plug Assembly (Specify Voltage) LPT841 Installed lamps, 80+ CRI, 4100K

Accessories (order separately)

- **MD360** – luminaire mount line voltage motion sensor, 360° coverage, up to 40ft mounting distance
- **Stem and Canopy Sets** – suspend luminaire from surface
- **CS-400** – Rigid stem canopy (1) (qty. 4 required per luminaire)
- **CS-500** – Swivel stem canopy (1) (qty. 4 required per luminaire)
- **CS Series Stems** – Specify length as needed (CS-12 for 12", CS-18 for 18", etc). (qty. 4 required per luminaire)

Chain Suspension Option

- **EE9HC** – 24" chain suspension kit (2 per luminaire required)
- **Electrical Wiring Options** – consult your Philips Lighting Representative

General Notes

- All options factory installed.
- All accessories are field installed.
- Many luminaire components, such as reflectors, refractors, lenses, sockets, lampholders, and LEDs are made from various types of plastics which can be adversely affected by airborne contaminants. If sulfur based chemicals, petroleum based products, cleaning solutions, or other contaminants are expected in the intended area of use, consult factory for compatibility.

FHC Trilyte Nordik industrial

T8 or T5HO, 4 or 6 lamp

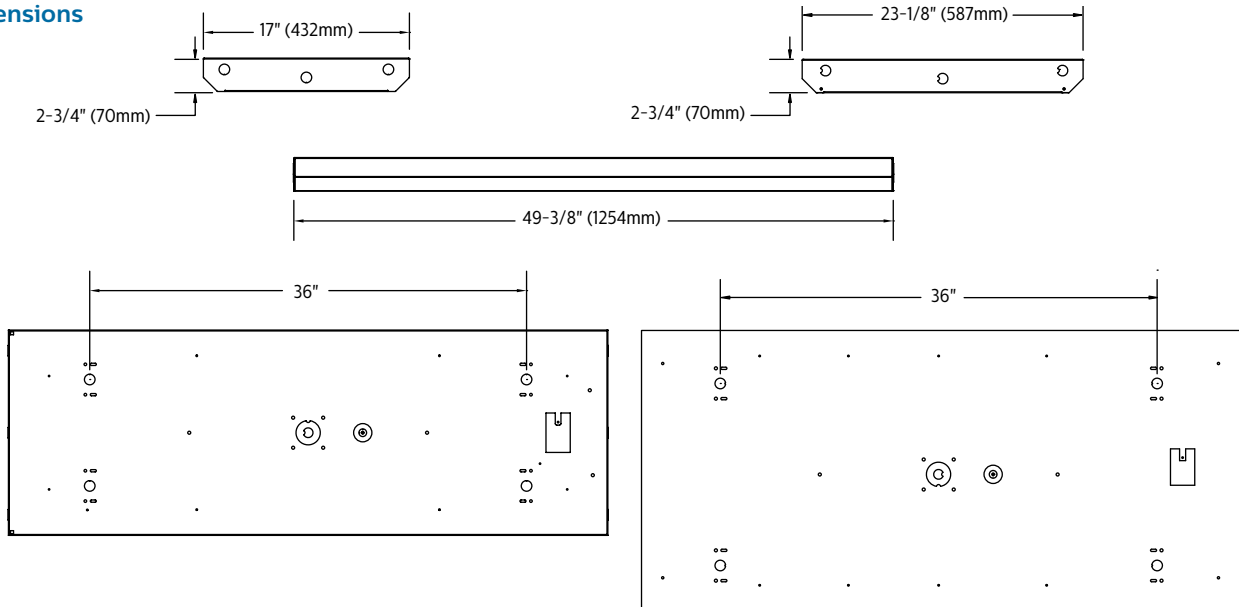
Features

- The TriLyte Nordik is designed for refrigerated environments.
- Calculated relative light output of 86.2% at -18°C when ordered with Philips supplied amalgam lamps.
- Ideal for temperatures between -18°C (0°F) and 5°C (41°F) when ordered with Philips recommended amalgam lamps. For ambient temperatures of 5°C (41°F) to 55°C (131°F), use regular TriLyte.
- **Body:** One-piece post painted steel housing for superior strength and able to withstand the harshest environments. Smooth and installation-friendly corners.
- **Shielding:** Full gasket sealed door frame with standard clear acrylic lens (12" nominal thickness) and spring latch design for easy tool less access to the lamp compartment. Polycarbonate lens also available. Wireguard N/A.
- **Reflector:** Contoured specular reflector offers optimum performance and 95% reflectivity.
- **Mounting:** Surface, chain, stem or canopy mounting.

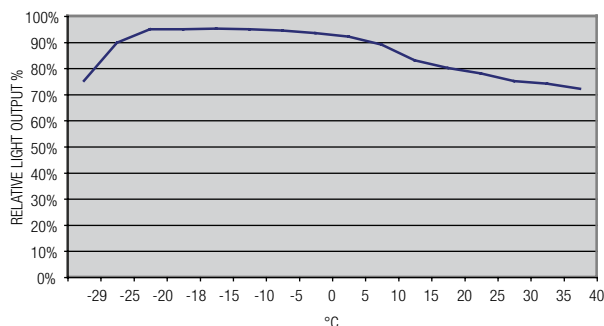
Specifications

- **Materials:** Chassis parts are die-formed code 22 gauge cold rolled steel.
- **Finish:** Chassis exterior and cavity post painted with white baked polyester powder coat finish.
- **Cavity:** Post painted with a white baked polyester powder coat finish.
- **Reflector:** Contoured design specular reflector, 95% reflectivity.
- **Electrical:** Thermally protected class "P" ballast, non PCB. If K.O. is within 3" of ballast, use wire suitable for at least 90°C.
- **Labels:** cCSAus listed.

Dimensions

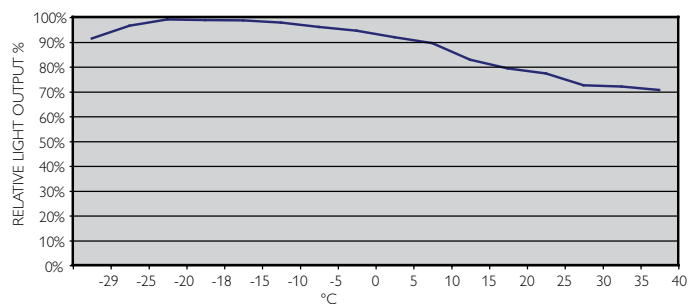


Relative Light Output According to Temperature for a 4 Lamp T5HO Luminaire



The TriLyte Nordik has been designed for optional operation at -18°C. The relative performance of the cold design is the same as the regular TriLyte, designed for 25°C.

Relative Light Output According to Temperature for a 6 Lamp T5HO Luminaire



The TriLyte Nordik has been designed for optional operation at -18°C. The relative performance of the cold design is the same as the regular TriLyte, designed for 25°C.

FHC Trilyte Nordik industrial

T8 or T5HO, 4 or 6 lamp

Photometry

Trilyte Nordik 4 lamp 54WT5HO

Efficiency – 86.3%

LER – 65

TER – 36

		Candlepower				Light Distribution				Average Luminance			
Catalog No.	FH4C4DXX454120-1/4-EB	Angle	End	45	Cross	Degrees	Lumens	% Lamp	% Luminaire	Angle	End	45'	Cross
Test No.	LSCA590	0	8537	8537	8537	0-30	5580	31.7	36.8	45	18629	9210	8483
S/MH	0.8	5	8532	8393	8265	0-40	8381	47.6	55.2	55	17310	8165	8153
Lamp Type	54WT5HO	10	8424	7992	7495	0-60	13037	74.1	85.9	65	15081	7665	6438
Lumens/Lamp	4400	15	8225	7324	6543	0-90	15179	86.3	100.0	75	11251	5006	3612
Ballast Factor	1.00	20	7938	6549	5635					85	1454	0	0
Input Watts	234	25	7602	5743	4703								
Comparative yearly lighting energy cost per 1000 lumens – \$3.69 based on 3000 hrs. and \$.08 pwr KWH.		30	7179	4938	3863								
		35	6679	4141	3190								
		40	6124	3358	2794								
		45	5510	2724	2509								
		50	4842	2270	2174								
		55	4153	1959	1956								
		60	3424	1625	1630								
		65	2666	1355	1138								
		70	1943	979	760								
		75	1218	542	391								
		80	539	220	70								
		85	53	0	0								

Coefficients of Utilization

EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)

pcc	80			70			50		
pw	70	50	30	70	50	30	50	30	
RCR									
0	103	103	103	100	100	100	95	95	
1	94	92	88	93	90	86	85	83	
2	88	81	76	84	80	75	77	72	
3	81	71	66	79	70	65	68	64	
4	73	65	57	72	64	57	61	56	
5	68	58	52	67	57	51	56	50	
6	64	53	46	63	53	46	51	45	
7	59	48	41	57	47	41	46	40	
8	56	45	38	55	44	38	42	36	
9	52	41	34	51	40	34	40	34	
10	48	39	32	47	38	32	36	32	

Trilyte Nordik 6 lamp 54WT5HO

Efficiency – 90.1%

LER – 67

TER – 35

		Candlepower				Light Distribution				Average Luminance			
Catalog No.	FH4C5DXX654UNV-1/42-EB	Angle	End	45	Cross	Degrees	Lumens	% Lamp	% Luminaire	Angle	End	45'	Cross
Test No.	LSCA459	0	11149	11149	11149	0-30	8370	31.7	35.0	45	16708	10640	9562
S/MH	1.0	5	11116	11081	11047	0-40	12886	48.6	53.9	55	15483	9019	8406
Lamp Type	54WT5HO	10	10977	10998	11128	0-60	20228	76.2	84.6	65	13573	7793	8905
Lumens/Lamp	4400	15	10694	10940	10989	0-90	23908	90.1	100.0	75	10212	7483	6544
Ballast Factor	1.00	20	10333	10694	9678					85	2205	528	0
Input Watts	358	25	9900	9810	7953								
Comparative yearly lighting energy cost per 1000 lumens – \$3.58 based on 3000 hrs. and \$.08 pwr KWH.		30	9325	8272	6463								
		35	8695	6816	5517								
		40	7963	5507	4736								
		45	7192	4580	4116								
		50	6305	3784	3339								
		55	5406	3149	2935								
		60	4465	2412	2708								
		65	3492	2005	2291								
		70	2548	1742	1702								
		75	1609	1179	1031								
		80	781	570	322								
		85	117	28	0								

Coefficients of Utilization

EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)

pcc	80			70			50		
pw	70	50	30	70	50	30	50	30	
RCR									
0	108	108	108	105	105	105	101	101	
1	100	95	92	96	93	91	90	86	
2	91	84	79	89	82	78	80	76	
3	83	75	68	81	73	68	70	66	
4	78	67	59	76	66	58	64	57	
5	71	60	53	69	59	53	57	52	
6	67	55	47	65	54	46	53	46	
7	61	50	42	60	50	42	47	41	
8	57	46	39	56	46	39	45	38	
9	54	42	35	53	41	35	40	34	
10	51	40	33	50	39	33	38	32	



Some luminaires use fluorescent or high intensity discharge (HID) lamps that contain small amounts of mercury. Such lamps are labeled, "Contain Mercury" and/or 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

© 2015 Koninklijke Philips N.V. All rights reserved.
Philips reserves the right to make changes in specifications and/or to discontinue any product at any time without notice or obligation and will not be liable for any consequences resulting from the use of this publication.
philips.com/luminaires



Philips Lighting North America Corporation
200 Franklin Square Drive, Somerset, NJ 08873
Tel. 855-486-2216

Philips Lighting Canada Ltd.
281 Hillmount Rd, Markham, ON, Canada L6C 2S3
Tel. 800-668-9008