


Licence for



CENELEC ENEC Agreement Licence Ref. No. SE/9716-22

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|---|--|
| Product: | Surface mounted luminaire for fluorescent lamp |
| Type designation: | See page 2-3 of Appendix |
| Test Report No. | 402374 |
| Licence holder: | THORN LIGHTING NORDIC AB Box 305 261 23 Landskrona SWEDEN |
| The product complies with the standard(s): | EN 60598-1:2000+ A11:2000 + A12:2002 and EN 60598-2-1:1989 |
| Licence holder is authorized to use the mark with the following limitations: | - |
| Date of expiry: | 31 December 2015 |
| LVD Information: | The products satisfies the provisions for CE marking according to the Low Voltage Directive 73/23/EEC and 93/68/EEC. |

Additional information in Appendix

| | | | |
|----------------------------|---|--------------|-------------------|
| <i>Certification Body</i> | Intertek Semko AB, Product Certification | <i>Place</i> | Kista - Stockholm |
| <i>Signed</i> |  Fredrik Wennersten | <i>Date</i> | 7 February 2005 |
| <i>Internal reference:</i> | ANL | | |


This Licence is the result of testing a sample of the product submitted, in accordance with the provisions of the relevant specific standard. A copy of the Licence shall be filed in the place of manufacturing. The Licence has been established by a body which is a signatory to the ENEC Agreement ratified by CENELEC Marks Committee on 10 April 1992.

APPENDIX

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Test Report No. 402374

Technical data

Type designation: See page 2-3 of this Appendix
Rated Voltage (V): 230-240
Number of lamps and rated wattage: See page 2-3 of this Appendix
Trade mark (if any): THORN
Lamp cap type: See page 2-3 of this Appendix
Degree of protection (Class): I
Degree of protection (IP): IP20/23
Type of installation: Fixed connection or flexible connection with plug
Classification according to material of supporting surface: Normally flammable surface, -marked.

Manufacturing site(s): Thorn Lighting Nordic AB
Industrigatan
261 23 Landskrona
Sweden

APPENDIX
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List of the products

| Model/Type Ref. | Manufactured by | Technical data | Lamp cap type | Class | Supplementary information |
|--|-----------------------------|---|---------------|-------|---------------------------|
| OPTUS IV D FDH ... HF. | Thorn Lighting Nordic AB | 1x28/35W 2x14//21/28/35/49/54W | G5 | I | IP20 |
| OPTUS IV D FDH ... HF. IP23 | Thorn Lighting Nordic AB | 1x28/35W 2x14//21/28/35/49/54W | G5 | I | IP23 |
| With additional designations: 128 = 1x28W 135 = 1x35W 214 = 2x14W 221 = 2x21W 228 = 2x28W 235 = 2x35W 249 = 2x49W 254 = 2x54W HF = Not dimmable HFD = Dimmable | | | | | |
| OPTUS IV ... FDH ... HF. SW. | Thorn Lighting Nordic AB | 1x28/35W 2x14//21/28/35/49/54W 3x14/21/28/35W | G5 | I | IP20 |
| With additional designations: D/I = Direct/Indirect (more direct light) Fifty = 50% direct light/indirect light I/D = Indirect/Direct (more indirect light) 128 = 1x28W 249 = 2x49W 135 = 1x35W 254 = 2x54W 214 = 2x14W 314 = 3x14W 221 = 2x21W 321 = 3x21W 228 = 2x28W 328 = 3x28W 235 = 2x35W 335 = 3x35W HF = Not dimmable HFD = Dimmable SW = With pullswitch SWD = With switchdim | | | | | |
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List of the products

| Model/Type Ref. | Manufactured by | Technical data | Lamp cap type | Class | Supplementary information |
|--|-----------------------------|----------------|---------------|-------|---------------------------|
| OPTUS IV whiteboard FDH ... HF. | Thorn Lighting Nordic AB | 1x28/35/49W | G5 | I | IP20 |
| <p>With additional designations: 128 = 1x28W 135 = 1x35W 149 = 1x49W HF = Not dimmable HFD = Dimmable</p> | | | | | |
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APPENDIX

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List of the components

| Object | | Manufacturer | Model/Type Ref. | Technical data | Mark of conformity |
|---------|---|---------------|----------------------------|----------------|--------------------|
| Ballast | 2 | Tridonic GmbH | PC 2/54 T5 PRO lp | 220-240V, tc80 | ENEC |
| Ballast | 2 | Tridonic GmbH | PC 2/49 T5 PRO lp | 220-240V, tc80 | ENEC |
| Ballast | 2 | Tridonic GmbH | PC 2/14-21-28-35 T5 PRO lp | 220-240V, tc80 | ENEC |
| Ballast | 2 | Tridonic GmbH | PC 1/54 T5 PRO lp | 220-240V, tc70 | ENEC |
| Ballast | 2 | Tridonic GmbH | PC 1/49 T5 PRO lp | 220-240V, tc70 | ENEC |
| Ballast | 2 | Tridonic GmbH | PC 1/14-21-28-35 T5 PRO lp | 220-240V, tc70 | ENEC |
| Ballast | 2 | Oy Helvar | EL 2x14-35 s | 220-240V, tc80 | ENEC |
| Ballast | 2 | Oy Helvar | EL 2x49 s | 220-240V, tc80 | ENEC |
| Ballast | 2 | Oy Helvar | EL 2x54 s | 220-240V, tc80 | ENEC |
| Ballast | 2 | Oy Helvar | EL 1x14-35 s | 220-240V, tc80 | ENEC |
| Ballast | 2 | Oy Helvar | EL 1x49 s | 220-240V, tc80 | ENEC |
| Ballast | 2 | Oy Helvar | EL 1x54 s | 220-240V, tc80 | ENEC |
| Ballast | 2 | Oy Helvar | EL 2x14 sc | 220-240V, tc80 | ENEC |
| Ballast | 2 | Oy Helvar | EL 2x21 sc | 220-240V, tc80 | ENEC |
| Ballast | 2 | Oy Helvar | EL 2x28 sc | 220-240V, tc80 | ENEC |
| Ballast | 2 | Oy Helvar | EL 2x35 sc | 220-240V, tc80 | ENEC |
| Ballast | 2 | Oy Helvar | EL 2x49 sc | 220-240V, tc80 | ENEC |
| Ballast | 2 | Oy Helvar | EL 2x54 sc | 220-240V, tc80 | ENEC |
| Ballast | 2 | Oy Helvar | EL 1x14 sc | 220-240V, tc80 | ENEC |
| Ballast | 2 | Oy Helvar | EL 1x21 sc | 220-240V, tc80 | ENEC |
| Ballast | 2 | Oy Helvar | EL 1x28 sc | 220-240V, tc80 | ENEC |
| Ballast | 2 | Oy Helvar | EL 1x35 sc | 220-240V, tc80 | ENEC |
| Ballast | 2 | Oy Helvar | EL 1x49 sc | 220-240V, tc80 | ENEC |
| Ballast | 2 | Oy Helvar | EL 1x54 sc | 220-240V, tc80 | ENEC |
| Ballast | 2 | Oy Helvar | EL 2x14 si | 220-240V, tc80 | ENEC |
| Ballast | 2 | Oy Helvar | EL 2x21 si | 220-240V, tc80 | ENEC |
| Ballast | 2 | Oy Helvar | EL 2x28 si | 220-240V, tc80 | ENEC |
| Ballast | 2 | Oy Helvar | EL 2x35 si | 220-240V, tc80 | ENEC |
| Ballast | 2 | Oy Helvar | EL 2x49 si | 220-240V, tc80 | ENEC |
| Ballast | 2 | Oy Helvar | EL 2x54 si | 220-240V, tc80 | ENEC |
| Ballast | 2 | Oy Helvar | EL 1x14 si | 220-240V, tc80 | ENEC |
| Ballast | 2 | Oy Helvar | EL 1x21 si | 220-240V, tc80 | ENEC |

The numbers above have the following meaning:

- 1 - The approved component is replaceable with another one, with equivalent characteristics also approved
- 2 - The component is replaceable if authorised by Intertek Semko AB
- 3 - Integrated component tested together with the appliance
- 4 - Alternative component

Intertek Semko AB

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