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> March 2013 Version 0.1



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1. Introduction

This new range CPO TT Xtra lamps are derived from the CPO TW Xtra lamps (45–140) and Elite MW lamps (210–315). They combine the superior performance from the CosmoPolis & Elite MW burners into an Edison based lamp (mechanically equal to SON and CDO lamps), thus offering easy fit into existing HPS/SON luminaire platform. The lamps are suitable for operation on specific electronic gear for CosmoPolis and Elite MW only.

2. Version management

This is the first version of the design in sheet for the CPO-TT Xtra family.

3. Family members

CPO-TT Xtra 45W/628 E27 CPO-TT Xtra 60W/628 E27 CPO-TT Xtra 90W/628 E40 CPO-TT Xtra 140W/628 E40 CPO-TT Xtra 210W/942 E40 CPO-TT Xtra 315W/942 E40

4. Main specifications

	45W	60W	90W	140W	210W	315W
Flux (lm)	4648	7090	10139	15989	21994	35177
Eff (Im/W)	105	120	114	114	106	113
CCT(K)	2711	2688	2750	2819	4227	4526
CRI	64	70	66	62	90	90
Vla	90	91	91	92	107	93
Life B10	24 khrs	24 khrs	20 khrs	16 khrs	16 khrs	16 khrs
Life B50	30 khrs	30 khrs	30 khrs	24 khrs	30 khrs	30 khrs
Lumen maintenance	85% @12khrs	80% @8khrs	85% @12khrs	80% @12khrs	84% @8khrs	80% @8khrs
dimmable	to 30W	to 36W	to 54W	to 84W	to 105W	NA



5. Dimensions and mechanical design-in

The drawing below shows the important dimensions for design-in.



Dimensional drawing for lower wattage types 45W-140W (left) and higher wattage types 210-315W (right)

Lamp type	Overall	Light centre	Bulb	Arc Length
	Lamp length	length	diameter D	O (mm)
	C (mm)	L (mm)	(mm)	
45W	156 max	103 +/- 3	36 max	14
60W	156 max	103 +/- 3	36 max	14
90W	211 max	132 +/- 4	47	18
140W	211 max.	132 +/- 4	47	22
210W	257 max	157 +/- 5	47	12.3
315W	257 max	162 +/- 5	47	14

Remark: The Light-centre length of the 315W deviates from the standard SON/HPS 400W lamps (178 mm). It is recommended to adjust the position of the lamp in the fixture when replacing a 400W SON by a 315W CPO-TT Xtra lamp.

6. Lamp - Ballast specification

The lamps have to be operated with electronic drivers designed for CosmoPolis lamps with the corresponding rate wattages (45-60-90-140-210-315W), including End Of Life protection.



We recommend Philips Xtreme drivers (45W to 210W) and the Philips PrimaVision driver (315W) for optimal performance.

7. Factory handling

Traceability

For traceability reasons it is advised to identify batches of your systems and relate this identification to the batches (i.e. data codes) of lamps used. The production date code is marked on the product.



Picture: Marking example

The date code consists of the last digit of the production year and the production month.

Example: This product has been marked 3A.

- Position 1 is the last digit of the production year (3 = 2013).
- Position 2 denotes the production month (A = January).

8. Installation / Mounting

Optics

The light distribution of the CPO-TT Xtra lamps in typical SON optics might differ significantly from the distribution obtained with SON lamps, due to the much smaller arc length of these lamps compared to SON lamps. The optical



CosmoPolis

CPO-TT Xtra family

performance is depending on the specific optics and the specific application and should be checked by the luminaire manufacturer.

Optical data of the CPO-TT Xtra lamps are available on request with your local sales representative.

Burning position of the lamp

The lamp is designed for *horizontal* burning. All specifications are given in this burning position. Vertical operation leads to shorter life specification and lower efficacy.

Lamp base and lamp holder

The lamps have a standardised E27 (45W-60W) and E40 (90-315W) cap.

For the E27 it is important to note that SON/HPS luminaires are often limited to 2.5kV ignition pulses.

Since the CPO-TT Xtra lamps can only be operated on electronic control gear with ignition voltages higher than 2.5kV, lamp holder and wiring used in combination with these lamps should be able to withstand pulses of 5kV.

9. Safety

When operating lamps with E40-fitting and electronic lamp drivers, one should be aware that both lamp-terminals are live when the driver is connected to mains.

It is mandatory to switch off the lamp before replacing the lamp.

Closed fixtures

The lamp is to be used in closed fixtures only, even during testing.

Photo-biological safety

The standards on photo-biological safety (I.E.C.62471 / ANSI/IESNA RP-27.3-96) aim to prevent potential injury from light sources, by prescribing adequate cautions and warnings.

The standards contain a risk group classification-ranging from exempted to risk group 4-regarding these optical radiation hazards in the wavelength range from 200nm through 3000nm.



For every risk group, adequate cautions and warnings are prescribed with whom lamps must be labeled.

The CPO-TT Xtra lamps 45W to 140W are classified in risk group 1. The CPO-TT Xtra lamps 210-315W are classified in risk group 2.

Risk group 2 implies that following labeling information is put on the leaflet: WARNING: Risk of UV/optical/IR radiation which may cause eye/skin injury (risk group 2).

Do not stare at operating lamp.

This warning is intended solely for installers and maintenance personnel, who run the risk to stare into the lamp from a short distance. No risk exists once the lamp is installed in a fixture on appropriate height.

Lamp base and holder

As explained in chapter 8, 5kV rated holders have to be used for the E27-lamps.

10. For more information

Please contact your local sales representative.

Check OEM application guide for general information about compact HID lamps.

Visit our web-site www.lighting.philips.com



Appendix A: Installation and safety leaflet for CPO-TT Xtra 45-140W

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CPO-TT Xtra 90-140-210-315W E40

CPO-TT Xtra 45W-60W E27

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WARNING

Do not break up used larnps near combustble materials. Risk of UV/optical/IR radiation which may cause evelokin injury (IEC 62471 Risk group 2) Use with electronic (low frequency square wave) gear, with end of life protection Use only with control gear and luminaire designed for this product furm off power before inspection, installation or removal. Keep combustible materials away from lamp. Protect lamp from water splash. Risk of fine Use with ceramic lampholder.

f glass bulb is broken turn power off and remove lamp.

Use only in an enclosed luminaire able to contain hot lamp parts, even during testing Jnexpected lamp rupture may cause injury, fire or property damage Do not stare at operating lamp. CAUTION Risk of burn

Lamp may shatter and cause injury if broken Do not use lamp if glass bulb is scratched or broken. Do not use excessive force when installing lamp. Wear gloves when handling broken lamps. Allow lamp to cool before handling, Protect lamp from water splash.

Use only with control gear and luminaire designed for this product Risk of poisoning from mercury and other lamp contents Avoid skin contact with broken lamp parts. INFORMATION

The manufacturer accepts no liability for injury or damage resulting from Dispose of used lamps according to local regulations ncorrect use.

More information: contact your local dealer, installer or via www.philips.com/lighting Keep for future reference. FOR PROFESSIONAL USE ONLY

AVERTISSEMENT

utiliser uniquement avec l'appareillage et le luminaire conçus pour ce produit. Mettez hors tension avant inspection, installation ou dépose faintenez les matériaux combustibles à l'écart de la lampe. Protégez la lampe des projections d'eau. Risque de décharge électrique Risque d'incendie

vutiliser avec un ballast électronique (signal carré à basse fréquence), équipé d'une Ne briszz pas les lampes usagées à provimité de matériaux combustibles. Risques d'émissions d'UV et d'IR, pouvant générer des problèmes derma-tologiques et oculaires (IEC 62471 Groupe de risque 2) utiliser avec une douille en cérarnique. protection en fin de vie.

Ne regardez pas la lampe en fonctionnement. Si la lampe se casse de manière inattendue, elle peut entraîner des blessures, un 51 l'ampoule est cassée, mettez hors tension et retirez la lampe. incendie ou des dommages

À utiliser uniquement dans un luminaire fermé en mesure de contenir les éléments chauds de la lampe, même lors des essais.

Risque de brûlure

Laisser la lampe refroidir avant de la manipuler. La lampe peut se briser et entraîner des blessures N'utilisez pas la lampe si l'ampoule est rayée ou cassée. Portez des gants pour manipuler les lampes cassées. Protégez la lampe des édaboussures d'eau. N'installez pas la lampe de force.

À utiliser uniquement avec l'appareillage et le luminaire conçus pour ce produit. Risque d'intoxication au mercure et aux autres composants de la lampe

Évitez tout contact de la peau avec les morceaux de la lampe cassée **INFORMATIONS**

Mettez les lampes usagées au rebut conformément aux réglementations locales. Le fabricant ne peut être tenu responsable des blessures ou des dommages résultant d'une utilisation incorrecte. La lampe contient du mercure

Pour plus d'informations, contactez votre installateur ou revendeur local ou consultez le site www.philips.com/lighting.

POUR UN USAGE PROFESSIONNEL UNIQUEMENT WARNUNG!

Schalten Sie die Stromzufuhr vor sämtlichen Inspektions-, Kontroll- oder Ausbauarbeiten ab. Schützen Sie die Lampe vor Spritzwasser. ochlaggefahr

Brandgefahr

Hatten Sie brennbare Materialien von der Lampe fern. Verwenden Sie das Produkt nur mit dem dafür vorgesehenen Schaltgerät und der

dafür vorgesehenen Leuchte.

Verwenden Sie eine elektronische Regelvorrichtung (niederfrequente, rechteddörmige Wellenform) mit EOL-Schutz. Benutzen Sie das Produkt nur mit einem keramischen Lampenhalter.

Zertrechen Sie vertrauchte Lampen nicht in der Nähe von brencheren Materialien. Gefähr von UV / optischer/ IR-Strahlung, die Verletzung des Auges/Haut verursachen kann (IEC 62471 Risikogruppe 2)

£

Wern der Glaskolben zerbrochen ist, müssen Sie die Lampe ausschalten und entfernen.

Blicken Sie nicht in die eingeschaltete Lampe. Ein plötzlicher Bruch der Lampe kann Verletzungen, Bränden oder Sachschäden verursachen

Sie dürfen die Lampe nur in einem geschlossenen Gehäuse benutzen oder auspro heißen Lamp das für die Aufnahme von

Verbrennungsgefahr

Lassen Se die Lampe erst abkühlen, bevor Sie diese anfassen. Die Lampe kann zerspringen und Verletzungen verursachen, wenn sie bricht Verwenden Sie die Lampe nicht, wenn der Gaskolben verfractst oder gesprungen ist. Wenden Sie beim Einsetzen der Lampe keine Gewatt an.

Verwenden Sie das Produkt nur mit dem dafür vorgesehenen Schaltgerät und der dafür vorgesehenen Leuchte. Vergiftungsgefahr durch Quecksifber und andere Lampeninhaltstoffe eiden Sie jeglichen Hautkontakt mit zerbrochenen Lampenteilen Fassen Sie zerbrochene Lampen nur mit Handschuhen an. Schützen Sie die Lampe vor Spritzwasser. Lampe enthält Quecksilber) ETT

Der Hersteller übernimmt keine Haftung für Verletzungen oder Sachschäden, die auf unsachgemäßen Gebrauch zurückzuführen sind. Verbrauchte Lampen gemäß örtlichen Vorschriften entsorgen.

sanleitung zum späteren Nachschlagen gut auf. Weitere Informationen erhalten Sie von Ihrem örtlichen Fachhändler oder installateur, oder im Internet unter www.philips.com/lighting. Bewah

NUR FÜR DIE PROFESSIONELLE VERWENDUNG

ADVERTENCIA

Desactive la alimentación antes de realizar la inspección, la instalación o la Proteja la lámpara de salpicaduras de agua Riesgo de descarga eléctrica extracción

Mantenga cualquier material inflamables alejados de la lámpara. Riesgo de incendio

Utilicela únicamente con equipos de control y luminarias diseñadas para este producto Utilícela con equipos electrónicos (onda cuadrada de baja frecuencia), con protección para el final de su vida útil.

Utilicela con un portalámparas de cerámica.

뿹

Riesgo de UV / Optico / Radiación Infrarroja que puede causar irritación en los Evite romper las lámparas usadas cerca de materiales inflamables.

ojos o lesiones en la piel (IEC 62471 Riesgo grupo 2)

si la bombilla de vidrio se rompe, desactive la alimentación y extraiga la lámpara

No mire directamente hacia la lámpara en funcionamiento.

La rotura inesperada de la lámpara podría causar lesiones, incendios o daños materiale: Utilicela únicamente en una luminaria cerrada capaz de albergar piezas caliente

de la lámpara, incluso durante una prueba.

Riesgo de quemaduras

Deje que la lámpara se enfrie antes de manipularla

La lámpara podría hacerse añicos y causar heridas si se rompe

No utilice la lámpara si la bornbilla de vidrio está rayada o rota No aplique una fuerza excesiva al instalar la lámpara.

Use guantes cuando manipule lámparas rotas

Proteja la lámpara de salpicaduras de agua.

Utilicela únicamente con equipos de control y luminarias diseñadas para este producto Riesgo de envenenamiento por mercurio y otros componentes de la lámpar que las piezas de la lámpara rota entren en contacto con la piel.

INFORMACIÓN

Deseche las lámparas usadas de acuerdo con la normativa local. Lámparas que continen mercurio

El fabricante no acepta ninguna responsabilidad con respecto a las lesiones o daños vados de un uso

CosmoPolis

CPO-TT Xtra family

Appendix B: Installation and safety leaflet for CPO-TT Xtra 210-315W

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