

ES-SYSTEM
Light is Life

X TREME

collection of luminaires for special tasks



INDUSTRIA 2 XTREME



INDUSTRIA 2 XTREME



- > A specially prepared luminaire housing in corrosion class C4
- > Optics in the form of PMMA panel lenses that optimise the luminaire design and reduce glare thanks to multiple light distribution variants (including symmetrical and elliptical)
- > LEDs with increased chemical resistance and longer service life (up to 91,000 h L80B50) and a high luminous efficacy of 167 lm/W

IP₆₅ IK₀₉ T_a -40°C ÷ +50°C

CYBERIA FX



CYBERIA FX



- > An extensive system of high-bay luminaires with a cast aluminum construction in corrosion class C3 (which can also be adapted to corrosion class C4) that are suitable for a wide range of industrial applications
- > A wide range of luminous flux variants: luminaire versions optimised for the highest light output (HO) and maximum luminous efficacy (HE)
- > Dos Available with a specular louvre or with high-performance polycarbonate lenses with various light distribution characteristics: elliptical, symmetrical and asymmetrical

IP₆₅ IK₁₀ T_a -40°C ÷ +50°C

COSMO APEX XTREME



COSMO[®] COSMO APEX XTREME



- > A luminaire designed especially for facilities with severe environmental conditions, such as livestock breeding facilities, waste processing plants, paper factories, etc. (detailed information on chemical resistance is available in the chemical compatibility sheet)
- > The luminaire housing and diffuser are made of a properly selected copolyester that is resistant to harmful chemical compounds does not contain the harmful compound Bisphenol-A found in PC (BPA-free)
- > LEDs with increased chemical resistance, longer service life (up to 91,000 h L80B50) and a high luminous efficacy of 175 lm/W

IP₆₆ IK₀₈ T_a -40°C ÷ +50°C

INDUSTRIAL LUMINAIRE CHEMICAL COMPATIBILITY CHART

Luminaires suitable for use in industrial/technical spaces – especially those using LED technologies – should be precisely tailored to the prevailing working conditions in terms of: the ambient temperature, humidity and dust, as well as the compatibility of the luminaire construction with the chemical composition of the working atmosphere. In addition to the basic ambient parameters such as the ingress protection (IP) and mechanical impact resistance (IK), they should have a chemical compatibility chart prepared with a declaration of which types of industrial/technical spaces they are suitable for, and to what extent they are resistant to the typical chemical compounds found in such spaces.

Metal luminaires suitable for use in industrial/technical spaces should have a declared C corrosion class. Industrial/technical luminaires should fulfill the requirements for D-marking, which means they must have a limited surface temperature (< 90°C).

SYSTEM	COSMO APEX XTREME	INDUSTRIA 2 XTREME	CYBERIA FX WITH GLASS
Housing material	Copolyester	Anodized aluminium	Die-cast aluminium
Acetone	X	V	V
Isopropyl alcohol	V	V	V
Methyl alcohol	V	V	V
Amines	V	V	V
Ammonia	V	V	V
Aniline	V	V	V
Benzene	V	V	V
Petrol	X	V	V
Chlorine, wet gas	V	V	X
Ammonium chloride	V	X	X
Sodium chloride	V	X	V
Chlorophenol	X	X	V
Chloroform	X	V	V
Dichloromethane	X	V	V
Dimethyl sulfoxide (DMSO)	X	V	V
Dioxane	V	V	V
Carbon dioxide, gas	V	V	V
Ethanol < 30%	V	V	V
Diethyl ether	V	V	V
Petroleum ether	X	V	V
Phenol	X	V	V
Glycerol	V	V	V
Glycol	V	V	V
Ketones	X	V	V
Cresol	V	V	V
Dimethyl benzene (xylene)	X	V	V
Xitric acid < 10%	V	V	V
Bromic acid	X	X	X
Hydrochloric acid	V	X	X
Phosphoric acid	V	V	X
Lactic acid	V	V	V
Acetic acid	V	V	V
Sulphurous acid	X	V	V
Sulphuric acid VI	V	X	X
Soapsuds	V	V	V
Hydrogen peroxide < 30%	V	V	V
Ethyl acetate	X	V	V
Oil, mineral	V	V	V
Diesel	V	V	V
Oil, vegetable	V	V	V
Silicone oil	X	V	V
Oil, animal	V	V	V
Pyridine	X	V	V
Sodium hypochlorite	V	X	X
Calcium hypochlorite	V	V	X
Detergent solution	V	V	V
Ammonium sulfate	V	V	V
Aluminum sulfate	V	V	V
Copper sulfate	V	X	V
Hydrogen sulphide, gas	V	V	X
Turpentine	X	V	V
Carbon tetrachloride	V	X	V
Sodium thiosulfate	V	V	V
Carbon monoxide, gas	V	V	V
Toluene	X	V	V
Trichloroethane	X	X	V
Sodium carbonate	V	X	V
Hydrocarbons, aliphatic	V	V	V
Hydrocarbons, aromatic	X	V	V
Water up to 60 C	V	V	V
Sea water	V	V	X
Sodium bisulfite	V	X	V
Potassium Hydroxide	X	X	V
Sodium hydroxide	X	X	V
Calcium hydroxide	X	V	X

SYSTEM	COSMO APEX XTREME	INDUSTRIA 2 XTREME	CYBERIA FX WITH GLASS
Housing material	Copolyester	Anodized aluminium	Die-cast aluminium
Rooms with high humidity:			
Kitchens	V	V	V
Damp basements	V	V	V
Bathrooms	V	V	V
Laundry rooms	V	V	V
Greenhouses	?	V	?
Drying chambers	V	V	V
Beer and wine cellars	V	V	V
Swimming pools and Water parks	V	V	X
Rooms with oil vapors:			
Large-scale kitchens	V	V	V
Car workshops	V	V	V
Vehicle repair shops	V	V	V
Private garages	V	V	V
Parking lots	V	V	V
Roofed gas stations	V	V	V
Underground garages	V	V	V
Electroplating plants	?	V	V
Rooms where special cleaning agents and disinfectants are used:			
Car washes	?	V	?
Livestock breeding facilities	V	V	?
Mushroom farms	V	V	?
Organic waste storage areas	V	V	?
Garbage sorting and storing facilities	V	V	?
Chemical plants	?	?	?
Paper factories	V	V	?
Textile factories	V	V	?
Electroplating plants	V	V	?
Rooms where special cleaning agents and disinfectants are used:			
Wineries	V	V	?
Bakeries	V	V	V
Dairy plants	V	V	V
Breweries	V	V	V
Meat processing plants	V	V	V
Food processing plants	V	V	V
Water processing plants	V	V	V
Other rooms:			
Warehouses	V	V	V
Roofed bus depots	V	V	V
Segregated waste storage areas	V	V	V
Carpentry shops	V	V	V
Roofed bus depots	V	V	V
Roofed driveways	V	V	V
Barns	V	V	V
Non-covered, exposed to UV rays	X	V	V

LEGEND
V suitable for use
X not suitable for use
? requires review

The information contained in chart is for guidance purposes only and valid for ambient temperatures not exceeding 35°C, higher temperatures of use should always be consulted with the Technical Department. The luminaire body can be washed with a diluted detergent and clean water. Pressure washing is not allowed.