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## Book of Light: Notes on Use

### How to Use the Book of Light

The Siteco Book of Light is divided into three basic areas: in the introduction we demonstrate to you the multifaceted spectrum of light. The second chapter should serve to inspire and to show exemplary lighting concepts in the areas of office, industry, traffic, shopping, public and sports. Custom product solutions are shown in the third chapter, separated into indoor and outdoor luminaires.



A colour code distinguishes between the sections office, industry, traffic, shopping, public and sports. The examples shown on this double page demonstrate how the products are presented within the context of their lighting solutions. Extreme lighting characteristics for typical lighting instruments are used to aid understanding.

Products shown here are examples of suitable luminaires in reference to the lighting characteristics shown graphically at the top of the page. References follow to the corresponding chapters in the product areas of the Book of Light (or to the electronic catalogue on CD-ROM, or online at [www.siteco.net](http://www.siteco.net))

In the area of general lighting, many different luminaires have identical or similar light characteristics. With specialised light characteristics however, the choice of luminaires is reduced.

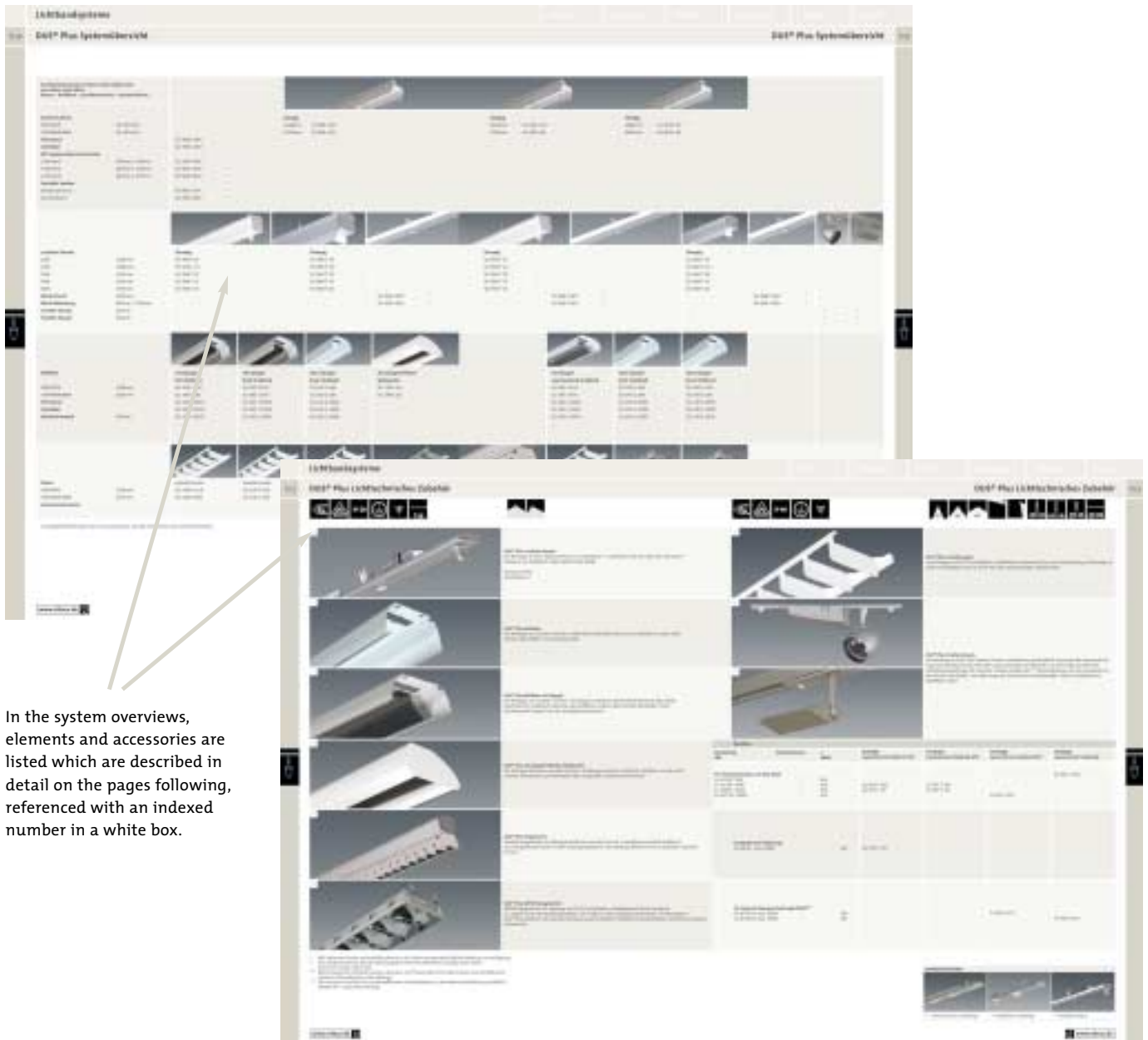
In the product sections indoor lighting and outdoor lighting, exponents of one or more product categories are displayed, sorted as product families. In order to facilitate navigation, the pages are annotated in the margins with graphical symbols.

Icons representing product characteristics are displayed at the top, ensuring a quick overview. Icons on the left are valid for all products specified in the order table, while icons to the right symbolise characteristics that vary according to individual products.

product category    product family    icons general    icons product specific



As well as textual descriptions, the products are amply illustrated. Where the dimensional information in the text could possibly be misinterpreted, a dimensional drawing is included. References to related products or other product designs are present that can be clicked on in the electronic version of the Book of Light.



In the system overviews, elements and accessories are listed which are described in detail on the pages following, referenced with an indexed number in a white box.

The order tables usually contain only a selection of recommended product types. Further product variations can be found in the electronic catalogue or in the current illustrated price list. In the electronic catalogue version of the Book of Light, a click on the order number navigates to the appropriate product area, where all product and planning information (light distribution curves, relux data, dimensional diagrams, installation instructions, tender texts etc.) can be downloaded.

## Quality of Light

### Quality of Light

For the assessment of a lighting situation, a whole range of criteria must be considered. Quantifiable, optical magnitudes play an important role as factors that cannot be numerically described but that are strongly influenced by subjective perceptions. The so-called 'lighting design quality attributes' that are often referenced to in practice have become a much talked about theme, and are regularly discussed in detail in trade magazines.

The following interesting aspects complete and are supplementary to comments in the 'Lighting Concepts' part of this Book of Light:

### Lighting Level

Eyestrain and inaccurate viewing depend to a very large extent upon lighting levels. The lighting level is measured in terms of the illuminance (in Lux). The higher the lighting level, the better the viewing performance, i.e. the accuracy and promptness with which the eye can gather visual information.

The lighting level in natural conditions, depending upon weather, time and location lies between 10,000 and 100,000 lux. A minimum value of 500 lux now exists for typical viewing tasks such as office work. New studies however confirm that a higher lighting level has a positive effect upon the general well-being of people.

The relevant norms contain minimum lighting levels for varying indoor and outdoor situations.

### Lighting Direction and Shadow

The interplay between light and shadow is decisive for the visual perception of objects, and the combination of lighting direction and shadow is what gives objects their plasticity and depth. For the faultless recognition of objects, surfaces and structures, a suitable lighting installation is required. A bright space with only diffuse light and without shadowing has the effect of being monotonous. Lack of orientation and the inadequate recognition of objects and distances leads to discomfort. In contrast, a correct ratio of diffuse light (e.g. with indirect components) to directional light results in a pleasant shadow effect. Directional light models structures and creates dramaturgy.

Typical instruments for directional light are narrow beam spots or downlights that are equipped with point sources and bundled reflector systems. These luminaires are adjustable for situations where a spacial adaption of the light output is required (i.e. rotational, pivotable, focussable).

### Glare

Basically, two forms of glare can be distinguished: glare resulting from physiological conditions and psychological glare. Physiological glare describes a situation whereby the eye receives glare directly from a light source, resulting in an impeding of visual efficiency. Psychological glare becomes apparent when a person stays for a prolonged amount of time in an adversely lighted space, leading to discomfort and a reduction in performance and concentration. Both forms of glare can be caused by the light source itself (direct glare) or through reflections of light sources on surfaces (reflected glare).

Glare is measured in terms of the luminance (candela/square metre,  $\text{cd}/\text{m}^2$ ). The luminances are measured upon a luminaire that lies within the field of vision or the angle of viewing.

The degree of glare from luminaires as part of a lighting system in indoor spaces is measured today with the CIE Unified Glare Rating System (UGR).

With reflected glare, the glare occurs indirectly. The luminaire is mirrored with a medium (for example a magazine or computer monitor) into the field of view of the observer.

In the case of glare it is not merely the degree of luminance of the luminaire that is relevant, but also illuminance values of walls and ceilings as well as the lighting level.

### Flickering and Stroboscopic Effects

With discharge lamps, luminous flux occurs almost concurrently with the input of electrical energy. With an operation with AC voltage this leads (depending upon the type of lamping in the luminaire) to an extremely disturbing flickering.

Objects that move quickly (for example rotating machine parts) can under adverse lighting conditions be perceived as stationary in cases where the chronological change in luminous flux runs simultaneously to the actual movement itself. This can in certain circumstances be exceedingly dangerous.

In order to eliminate flicker and stroboscopic effect it is recommended that lamps are run with an electronic ballast. The use of electronic ballasts saves energy, extends the life cycle of the lamp and provides a high level of convenience when controlling and maintaining the lighting system.

### Colour Rendering and Light Colour

In natural daylight at midday the surfaces of objects appear in their true colours. This lighting situation forms the benchmark for colour perception with artificial light.

The colour rendering characteristics of an artificial light source are expressed in terms of the colour rendering index ( $R_a$ ). This measures the degree to which objects illuminated by the source conform with the same objects illuminated by a reference illuminant.

The area of use determines the colour rendering properties of a light source. In areas where colour authenticity plays an important factor, e.g. in the food processing industry, the textile industry or in paint shops, light sources with excellent colour rendering properties are required.

With the illumination of products in sales areas (especially fresh produce such as meat, fruit, vegetables, etc.), lamps are used that specifically distort colour perception. With the emphasis of red components, fresh produce can be made to appear decisively more appetizing compared to display with natural light.

In the area of all-purpose lighting for indoor spaces, fluorescent lamps, metal halide lamps and tungsten halogen lamps are generally used. Whereas colour graduations with halogen lamps have only recently been introduced, fluorescent lamps and metal halide lamps already have a choice of different white tones:

**Warm white light** has a higher red component, making the room appear warmer.  
Colour temperature up to 3300K.

**Neutral white light**  
Colour temperature 3300 – 5000K.

**Daylight white light** has a higher blue component, making the room cooler.  
Colour temperature up to 5000K.

At the present time, fluorescent lamps with colour temperatures of 9000K and greater are being introduced. These should give the impression of illumination with daylight, specifically a situation with blue sky at midday.

### Coloured Light

With coloured light, the colour perception of surfaces can be influenced. This can be used for orientation purposes, for signalling or for reasons of effect. The random creation of colours with RGB colour mixing is often to be found with contemporary lighting designs, whereby the red, green and blue light components are layered on top of each other with the help of a lighting control system. Coloured fluorescent lamps or LED's are used here as light sources.

### Light distribution and Light Characteristics

The beam distribution of luminaires influences to a great extent the effect of illuminated spaces or objects.

### Indoor Lighting

Direct light distribution is characterised by light that is radiated directly into the room or directly onto the working surface, e.g. a desktop. In terms of lighting levels, direct distribution offers the greatest efficiency. Depending upon the optical system of the luminaire, a direct viewing of the lamp and a corresponding glare effect should be taken into account.

With the deployment of suitable optical components such as diffusers (opaline covers), refractors (prismatic discs), ELDAICON® technology and secondary systems, direct distribution luminaires can be designed with glare-free characteristics. Louvre optics ensure an absence of glare outside the beam angle.

With secondary systems, the light from the lamp is initially reflected from a primary reflector to a secondary reflector that are both enclosed in the luminaire, and from there it is directed into the room. The lamp cannot be seen.

Secondary reflector systems also use secondary light distribution, however the light distribution reflector and the projector are spatially separated from each other.

With indirect distribution, the light output from a luminaire is radiated into the room and onto a reflecting surface such as a wall or ceiling. This results in a bright, friendly ambience with glare-free lighting.

Composite distribution characteristics, i.e. direct-indirect or indirect-direct distribution combine the advantages of both approaches and are frequently used for indoor lighting.

With reference to the beam angle, wide beam and narrow beam light distribution exists. For a highest possible uniformity of surface illuminance wide beam luminaires are predominantly used, whereas for accenting and the lighting of higher spaces narrow beam distribution is employed.

Narrow beam characteristics are usually created with point sources such as tungsten halogen lamps, metal-halide lamps and LED's. Wide beam distribution can be created with the complete spectrum of lamps.

### Outdoor Lighting

Outdoor lighting usually consists of road lighting, surface lighting, spot-lighting and guidance lighting. In most cases luminaires are deployed with symmetrical or asymmetrical distribution and are equipped with high pressure discharge lamps.

In the area of road lighting, light emission plays an important role. For this reason, light characteristics are preferred whereby light is exclusively emitted to the lower hemisphere.

For specialised uses, for example the spotlighting of objects or the lighting of stadiums, projectors with narrow beam spreads are used. The same is true for the projectors of a secondary reflector system.

## Ordering Information

Many products can also be delivered as standard in variations that differ from those listed in the order tables. These variations concern:

### Indoor Luminaires

#### Colours of Luminaire Coatings

As well as metallic grey (RAL 9006), most of the coated indoor luminaires are available as standard with brilliant white (similar to RAL 9010) and pure white (RAL 9010). In these cases the order numbers must be changed according to the appropriate instructions.

#### Quadrature

For brilliant white (similar to RAL 9010), please substitute the letter 'S' with the letter 'W' at the end of the order number

#### Comfit®MD

For brilliant white (similar to RAL 9010), please substitute the letters 'ST' with the letters 'WT' at the end of the order number

#### Siteco Louvre Continuous Luminaires

For brilliant white (similar to RAL 9010) and with end caps in white please substitute the letter 'S' with the letter 'W' at the end of the order number

#### DUS® Plus Trunking System

For brilliant white (similar to RAL 9010) please substitute the number '6' at the 5th position in the order number with the number '0'

#### Lunis®C Surface Mounted Downlights

For pure white (RAL 9010) please substitute the number '4' with the number '3' at the end of the order number

#### Lunis®R Surface Mounted Downlights

For pure white (RAL 9010) please substitute the number '4' with the number '3' at the 11th position of the order number, and the letter 'F' with the letter 'E' at the 14th position

#### Control Gear

Luminaires with linear or compact fluorescent lamps in this Book of Light are equipped with professional electronic ballasts (electronic control gear). Products solely from renowned manufacturers are used to satisfy the highest demands.

Luminaires that can be used in combination with lighting management systems are available in a dimmable version according to labelling. According to the method of operation, the following variations exist:

with DALI digital interface

Please substitute the number '7' in the order number (before the dash) with the letter 'D'

with analogue interface 1...10V

Please substitute the number '7' in the order number (before the dash) with the number '6'

Dimmable luminaires with linear fluorescent lamps (T16, T26) are usually dimmable to 1% of the nominal power. With compact or circular fluorescent lamps, the lowest dimming level is 3% or 5%. Further control gear types (e.g. DSI, instabusEIB etc.) available on request.

#### Emergency Lighting

Most luminaires can be equipped in the factory with an emergency lighting module. According to the type of emergency lighting fixture, the following variations are available:

E14 emergency lighting element

emergency light with 1-hour oder 3-hour internal battery

emergency light with changeover switch

### Outdoor Luminaires

#### Colours of Luminaire Coatings

Outdoor luminaires are also available in colours additional to those listed in the order tables as standard. Please note possible further colours according to the footnotes on the product pages.

#### UV Protection Coating

To increase resistance to solar radiation, outdoor luminaires with housings made of glass-fibre reinforced plastic are coated with a UV-resistant finish.

#### Siteco Savelight, Electrical Equipment

Outdoor luminaires for high-pressure discharge lamps are (depending upon design) equipped with an ignitor with digital automatic cut-out, a ballast with thermal protection and optionally with power reduction (Eco) with an integrated timer for starting the lamp at full power.

## Sales and Delivery Terms

### Domestic Sales

These are governed by the General Terms of Sale and the General Terms of Delivery for products and services in the electrical industry.

### Export Sales

These are governed by the General Terms of Delivery for products and services in the electrical industry, as most recently amended in each case, as well as by all other terms agreed by recipients of price lists.

Unless specified otherwise on individual pages of this publication, we reserve the right to make changes without prior notice, particularly regarding the specified values, dimensions and weights.

Illustrations are not binding.

Please see current price lists for prices.

Delivered without lamps unless otherwise specified.

## Further Information

### Internet



### Brochures and other Product Information

A wide selection of further information can be found in the download area of our website [www.siteco.net](http://www.siteco.net)

## Symbols

## Certification Symbols

**EN 60598**

Manufactured and tested in accordance with the European standard for luminaires, EN 60598, VDE 0711.



The ENEC symbol (European Norm Electrical Certification) is a European test and certification symbol for luminaires and electrical components in luminaires. It indicates conformity with the relevant European standards on safety and functionality. The suffix 10 indicates that the test has been carried out by VDE. The VDE symbol may also be affixed to the luminaire.



Luminaires with the VDE symbol are tested by the VDE testing and certification institute. The tests are based on the relevant German safety standards. The VDE symbol includes the "Safety tested" symbol.

**IP 20**

Protection against touching active, live parts with a finger.

**IP 23**

Protection against touching live parts with a finger and against ingress of spray water (e.g. rain). According to EN 60598, luminaires for indoor use are tested in the relevant installation situation to establish the degree of protection against ingress of water. Degree of protection IP x3 is consequently achieved by the installation situation and is therefore not a property of the luminaire. All indoor luminaires marked IP20 consequently meet the requirements for degree of protection IP23.

**IP 40**

Protection against touching active, live parts with a 1 mm thick wire.

**IP 43**

Protection against touching active, live parts with a 1 mm thick wire and against ingress of spray water.

**IP 44**

Protection against touching active parts with a 1 mm thick wire and against ingress of splash water.

**IP 50**

Luminaire protected against ingress of dust.

**IP 54**

Luminaire protected against ingress of dust and spray water.

**IP 55**

Luminaire protected against ingress of dust and water jets.

**IP 60**

Dust-proof luminaire.

**IP 65**

Dust-proof luminaire protected against ingress of water jets.

**IP 65.7**

Dust-proof luminaire protected against ingress of water jets, capable of withstanding a load corresponding to IK 07 (EN 50102)

**IP 67.7**

Dust-proof luminaire protected against ingress of water, capable of withstanding a load corresponding to IK 07 (EN 50102)



Protection against electric shock is based on insulation and connection of all exposed metal parts with the protective earth conductor.



Live parts are equipped with additional protective insulation. Connection of a protective earth conductor is not permitted.



Protection against electric shock is based on use of safety extra low voltage.



Luminaires bearing the F symbol are suitable for mounting on normally flammable building materials (EN 60598/VDE 0711).



Luminaires bearing the FF symbol are suitable for plants with a fire hazard due to dust or fibrous materials (VDE 0710 Part 5). According to EN 60598-2-24, this symbol will be replaced by the D symbol at the latest by 1.8.2005.



Luminaires bearing the D symbol are suitable for plants with a fire hazard due to dust or fibrous materials (EN 60598-2-24). This symbol will replace the FF symbol at the latest by 1.8.2005.

**ZONE 2**

Luminaires are approved for use in explosion hazard zone 2 in accordance with Explosion-hazard Directive 94/9/EC<sup>1)</sup>. Explosion-hazard zone 2 in accordance with regulation ElexV 1996<sup>2)</sup>: Areas in which an explosive atmosphere due to gases, vapours or mists is unlikely to occur, but if it does, it will in all probability be rare and of brief duration.

<sup>1)</sup> Previous Explosion-hazard Directive 76/117/EEC valid until 30.6.2003.

<sup>2)</sup> Previous ElexV 1994 regulation valid until 30.6.2003.

**ZONE 22**

Luminaires are approved for use in explosion-hazard zone 22 in accordance with Explosion-hazard Directive 94/9/EC<sup>1)</sup>. Explosion-hazard zone 22 in accordance with regulation ElexV 1996<sup>2)</sup>: Areas in which an explosive atmosphere due to dust clouds is unlikely to occur, but if it does, it will in all probability be rare and of brief duration.

<sup>1)</sup> Previous Explosion-hazard Directive 76/117/EEC valid until 30.6.2003.

<sup>2)</sup> Previous ElexV 1994 regulation valid until 30.6.2003.



The luminaire has been impact-tested and approved for use in civil defence bunkers. Test certificates are available on request.



The luminaire has been vibration-tested to prove its safety during earthquakes or comparable situations. This is important for use in nuclear power plants, etc. Test certificates are available on request.



Luminaire is suitable for use in temperatures diverging from those specified by EN 60598. According to EN 60598, luminaires are designed for nominal ambient temperatures of max. = +25 °C. Temporary operation at temperatures up to +35 °C is possible.



Luminaires bearing this symbol can be used on railways and track areas. The maximum angle-dependent luminous intensity values comply with the specifications of Deutsche Bahn AG.



Luminaires have been tested according to the latest European standard EN 12193 (and DIN VDE 0710) to establish their resistance to impacts from flying balls.



Luminaire has been tested in accordance with VDE 0710 and found to be ball-proof on tennis courts.

### Product technology and quality marks



#### Multi-power operation

The luminaire can be operated with lamps of different wattages instead of with just one wattage.



### Siteco Savelight

For safety and convenience, protects the luminaire and ensures soft lamp operation.

- Igniter with digital automatic power-off
- Control gear with thermal protection
- Power reduction (Eco) with integrated timer for starting the lamp at full power



Luminaire with parallel p.f. correction as standard or optionally available with p.f. correction.



DALI (Digital Addressable Lighting Interface) is an interface definition for controlling digitally dimmable control gear. Up to 64 DALI units can be operated on one control line. These units can be grouped into not more than 16 groups with overlapping. Up to 16 light scenes can be programmed. The protocol definition is specified in the Annex to EN 60929.



Radio management for transmitting control commands in the 433.42 MHz ISM band.



Symbol for good industrial design. Products bearing the "iF" mark have been selected by the IndustrieForum Design Hanover for their outstanding product design.



The GS symbol is affixed together with the symbol of the authorized testing agency to confirm compliance with the German law on appliance safety.



The CE mark exclusively documents compliance with the European

Directives governing the product. Luminaires are governed by the Directives on EMC and low voltages. Compliance with the Directive on Electromagnetic Compatibility presupposes compliance with the standards for radio interference suppression (EN 55015), immunity to interference (EN 61547) and mains pollution (EN 6100-3-2). Compliance with the low-voltage Directive presupposes compliance with the luminaire standard EN 60598 (corresponds with VDE 0711). The manufacturer is responsible for affixing the CE mark and it therefore does not constitute a test mark.



All luminaire packagings used by Siteco Beleuchtungstechnik GmbH can be returned to Messrs. Interseroh for environmentally compatible disposal.



Not used for our packagings (see Interseroh).



Recycling symbol of the corrugated cardboard industry.

### Installation instruction symbols



Installation and maintenance may only be carried out by duly qualified personnel.



Important: Particular attention must be paid to this point during installation.



Hot surfaces near control gear, for example: suitable cables must be used and routed accordingly.



Watt rating and number of lamps to be fitted.



Control gear suitable for specified lamp rating.



Capacitance of the p.f. correction capacitor.



protective earth connection



Lamp must be approved for use in "open" luminaires ("open" luminaires also include luminaires with plastic enclosure or with plastic reflector).



Conditions for compliance with the F symbol are not met when the luminaire is covered by insulating material (e.g. insulating mats).



Note end mark/identification (no limit stop fitted).



Wear protective gloves (avoid fingerprints).



Circuit with parallel p.f. correction.



Further details can be found in the installation instructions for the accessory parts.



Precise alignment must be ensured.



Unplug mains connector before starting any maintenance work.



Sections of the installation instructions bearing this symbol refer to the condition on delivery.

Symbols

Lighting Technology



**ELDAICON®**  
light control

Innovative light control with patented, high-precision micro-prismatic structures for CAT2 - 1000 cd/m<sup>2</sup> glare limitation. Limitation of the direct and reflected glare on visual display surfaces, even when the luminaire is located directly above the workplace.



**Siteco Mirrortec™**

Secondary reflector system: the light of the narrow-beam spotlight is projected upwards onto the faceted reflector. The concave reflector surfaces break the light up into numerous individual light spots and reflect it onto the working surface without glare.



**CAT 2**  
**direct distribution**

Luminance  $L \leq 1000 \text{ cd/m}^2$   
for beam angles  $\geq 65^\circ$  all-round



**CAT 2**  
**direct/indirect distribution**

Luminance  $L \leq 1000 \text{ cd/m}^2$  for beam angles  $\geq 65^\circ$  all-round. Indirect component: for illumination of the ceiling



**direct distribution**  
Wide-beam light distribution



**Direct/indirect distribution**

Direct component: widebeam light distribution. Indirect component: for ceiling illumination



**Direct distribution with lateral outlet**

Wide-beam light distribution. Ceiling illumination: via lateral outlet



**Direct/indirect distribution with lateral outlet**

Wide-beam light distribution. Indirect component: via prismatic light control



**open lamp distribution**



**Direct distribution**

Extremely narrow beam for optimum illumination of rack fronts



**Direct distribution**

Narrow beam with linear light distribution combined with high vertical lighting intensity on walls (front of shelves and racking) and a soft contrast in the main beam direction



**2 in 1**  
extremely wide beam distribution for basic illumination with integrated central wide beam downlight



**2 in 1**  
extremely wide beam distribution for basic illumination with integrated central narrow beam downlight



**Direct distribution**

Wide-beam light distribution



**Direct distribution**

for mobile light



**Direct distribution**

Very wide-beam light distribution



**Direct distribution**

Ausstrahlungswinkel  $15^\circ$



**Direct distribution**  
beam angle  $30^\circ$



**Direct distribution**  
beam angle  $60^\circ$



**Direct/indirect distribution with lateral outlet**

Wide-beam light distribution. Indirect component: via translucent prismatic reflector



**Secondary distribution**

Light distribution via secondary reflector, light source concealed from view



**Direct and secondary distribution**

Direct component: wide-beam light distribution  
Secondary component: for harmonious and uniform light distribution



**Indirect distribution**

Wide-beam light distribution



**Direct asymmetrical distribution**

Wide-beam light distribution



**Direct/indirect asymmetrical distribution**

Direct component: wide-beam light distribution  
Indirect component: for ceiling illumination



**Direct asymmetrical distribution**

wide beam distribution



**Direct asymmetrical distribution**

narrow beam distribution



**Wall washer**

Asymmetrical distribution for uniform illumination of vertical surfaces and racks



**Ceiling washer: indirect asymmetrical distribution**






























Uniform illumination of the room using the ceiling as secondary reflector



**Ceiling washer: indirect asymmetrical distribution**

Wide-beam light distribution



Lamps					
		 Compact fluorescent lamp TC-DEL, 4-pin cap for HFG operation	 Metal halide lamp with improved colour rendering, tubular form	 Tubular filament lamp, screw cap	
 Fluorescent lamp, tubular, tube diameter = 7 mm	 Compact fluorescent lamp TC-T, 2-pin cap with integrated starter	 Metal halide lamp, double-capped tubular form	 Halogen filament lamp (230 V), glass plug-in cap		
 Fluorescent lamp, tubular, tube diameter = 16 mm	 Compact fluorescent lamp TC-TEL, 4-pin cap for HFG operation	 High-pressure sodium vapour lamp, ellipsoid form, screw cap	 Halogen filament lamp (230 V), E14 screw cap		
 Fluorescent lamp, tubular, tube diameter = 26 mm	 Compact fluorescent lamp TC-L, 4-pin cap	 High-pressure sodium vapour lamp, tubular form, screw cap	 Halogen filament lamp (230 V), E 27 screw cap		
 Fluorescent lamp, circular, tube diameter = 16 mm	 Philips specific designation for metal halide lamps (HIE). With specific luminaires we recommend lamping from Philips.	 high pressure sodium lamp with improved colour rendering	 Halogen filament lamp (230 V), double-capped tubular form		
 Compact fluorescent lamp TC-S, 2-pin cap with integrated starter	 High-pressure sodium vapour lamp, double-capped tubular form	 Philips specific designation for high pressure sodium lamp (HST-CRI) with improved colour rendering. With specific luminaires we recommend lamping from Philips.	 Low-voltage halogen filament lamp (12 V), plug-in cap		
 Compact fluorescent lamp TC-SEL, 4-pin cap for HFG operation	 Metal halide lamp, ellipsoid form, screw cap	 Mercury-vapour lamp, ellipsoid form, screw cap	 LED lamp module		
 Compact fluorescent lamp TC-D, 2-pin cap with integrated starter	 Metal halide lamp, tubular form	 General service filament lamp, screw cap			

Category	Designation (LBS)	Wattage [W]	Cap	Typ. lumen output [lm]	Possible light colours	Colour rendering index	OSRAM	Philips	Sylvania	GE		
Fluorescent lamps	T 16	(T5)	14	G 5	1220	ww, nw, tw	1B	FH 14 W/8..	TL5 14 W HE/8..	-	-	
	T 16	(T5)	21	G 5	1890	ww, nw, tw	1B	FH 21 W/8..	TL5 21 W HE/8..	-	-	
	T 16	(T5)	28	G 5	2610	ww, nw, tw	1B	FH 28 W/8..	TL5 28 W HE/8..	-	-	
	T 16	(T5)	35	G 5	3290	ww, nw, tw	1B	FH 35 W/8..	TL5 35 W HE/8..	-	-	
	T 16	(T5)	24	G 5	1760	ww, nw, tw	1B	FQ 24 W/8..	TL5 24 W HO/8..	-	-	
	T 16	(T5)	39	G 5	3080	ww, nw, tw	1B	FQ 39 W/8..	TL5 39 W HO/8..	-	-	
	T 16	(T5)	49	G 5	4900	ww, nw, tw	1B	-	TL5 49 W HO/8..	-	-	
	T 16	(T5)	54	G 5	4400	ww, nw, tw	1B	FQ 54 W/8..	TL5 54 W HO/8..	-	-	
	T 16	(T5)	80	G 5	6160	ww, nw, tw	1B	FO 80 W/8..	-	-	-	
	T 26	(T8)	18	G 13	1000	ww, nw, tw	1A	L 18 W/..	TL-D 18 W/9..	F18 W/9..	F18 W/9..	
	T 26	(T8)	18	G 13	1350	ww, nw, tw	1B	L 18 W/..	TL-D 18 W/8..	F18 W/8..	F18 W/8..	
	T 26	(T8)	36	G 13	2350	ww, nw, tw	1A	L 36 W/..	TL-D 36 W/9..	F36 W/9..	F36 W/9..	
	T 26	(T8)	36	G 13	3350	ww, nw, tw	1B	L 36 W/..	TL-D 36 W/8..	F36 W/8..	F36 W/8..	
	T 26	(T8)	38	G 13	3000	ww, nw, tw	1B	L 38 W/..	TL-D 38 W/8..	F38 W/8..	F38 W/8..	
	T 26	(T8)	58	G 13	3750	ww, nw, tw	1A	L 58 W/..	TL-D 58 W/9..	F58 W/9..	F58 W/9..	
	T 26	(T8)	58	G 13	5200	ww, nw, tw	1B	L 58 W/..	TL-D 58 W/8..	F58 W/8..	F58 W/8..	
	T 7	(T2)	6	W 4,3	330	ww, nw, tw	1B	FM 6W/..	-	-	-	
	T 7	(T2)	8	W 4,3	540	ww, nw, tw	1B	FM 8W/..	-	-	-	
	T 7	(T2)	11	W 4,3	750	ww, nw, tw	1B	FM 11W/..	-	-	-	
	T 7	(T2)	13	W 4,3	930	ww, nw, tw	1B	FM 13W/..	-	-	-	
	compact-fluorescent lamps	TC-S		5	G 23	250	ww, nw	1B	Dulux S 5 W/...	PL-S 5 W/.../2P	CF-S 5 W/...	F5BX/...
TC-S			7	G 23	400	ww, nw	1B	Dulux S 7 W/...	PL-S 7 W/.../2P	CF-S 7 W/...	F7BX/...	
TC-S			9	G 23	600	ww, nw	1B	Dulux S 9 W/...	PL-S 9 W/.../2P	CF-S 9 W/...	F9BX/...	
TC-S			11	G 23	900	ww, nw	1B	Dulux S 11 W/...	PL-S 11 W/.../2P	CF-S 11 W/...	F11BX/...	
TC-SEL			5	2 G7	250	ww, nw	1B	Dulux S/E 5 W/...	PL-S 5 W/.../4p	CF-SE 5 W/...	F5BX/.../4p	
TC-SEL			7	2 G7	400	ww, nw	1B	Dulux S/E 7 W/...	PL-S 7 W/.../4p	CF-SE 7 W/...	F7BX/.../4p	
TC-SEL			9	2 G7	600	ww, nw	1B	Dulux S/E 9 W/...	PL-S 9 W/.../4p	CF-SE 9 W/...	F9BX/.../4p	
TC-SEL			11	2 G7	900	ww, nw	1B	Dulux S/E 11 W/...	PL-S 11 W/.../4p	CF-SE 11 W/...	F11BX/.../4p	
TC-D			10	G24 d-1	600	ww, nw	1B	Dulux D 10 W/...	PL-C 10 W/.../2P	CF-D 10 W/...	F10DBX/...	
TC-D			13	G24 d-1	900	ww, nw	1B	Dulux D 13 W/...	PL-C 13 W/.../2P	CF-D 13 W/...	F13DBX/...	
TC-D			18	G24 d-2	1200	ww, nw	1B	Dulux D 18 W/...	PL-C 18 W/.../2P	CF-D 18 W/...	F18DBX/...	
TC-D			26	G24 d-3	1800	ww, nw	1B	Dulux D 26 W/...	PL-C 26 W/.../2P	CF-D 26 W/...	F26DBX/...	
TC-DEL			10	G24 q-1	600	ww, nw	1B	Dulux D/E 10 W/...	PL-C 10 W/.../4p	CF-DE 10 W/...	F10DBX/.../4p	
TC-DEL			13	G24 q-1	900	ww, nw	1B	Dulux D/E 13 W/...	PL-C 13 W/.../4p	CF-DE 13 W/...	F13DBX/.../4p	
TC-DEL			18	G24 q-2	1200	ww, nw	1B	Dulux D/E 18 W/...	PL-C 18 W/.../4p	CF-DE 18 W/...	F18DBX/.../4p	
TC-DEL			26	G24 q-3	1800	ww, nw	1B	Dulux D/E 26 W/...	PL-C 26 W/.../4p	CF-DE 26 W/...	F26DBX/.../4p	
TC-T			13	GX 24 d-1	900	ww, nw	1B	Dulux T 13 W/...	-	-	F13TBX/...	
TC-T (I)			18	GX 24 d-2	1200	ww, nw	1B	Dulux T 18 W/... (IN PLUS)	PL-T 18 W/.../2P	CF-T 18 W/...	F18TBX/...	
TC-T (I)			26	GX 24 d-3	1800	ww, nw	1B	Dulux T 26 W/... (IN PLUS)	PL-T 26 W/.../2P	CF-T 26 W/...	F26TBX/...	
TC-TEL			13	GX 24 q-1	900	ww, nw	1B	Dulux T/E 13W/...	-	-	F13TBN/.../A/4p	
TC-TEL (I)			18	GX 24 q-2	1200	ww, nw	1B	Dulux T/E 18 W/... (IN PLUS)	PL-T 18 W/.../4p	CF-T 18 W/...	T18TBX/.../A/4p	
TC-TEL (I)			26	GX 24 q-3	1800	ww, nw	1B	Dulux T/E 26 W/... (IN PLUS)	PL-T 26 W/.../4p	CF-T 26 W/...	T26TBX/.../A/4p	
TC-TEL (I)			32	GX 24 q-3	2400	ww, nw	1B	Dulux T/E 32 W/... (IN PLUS)	PL-T 32 W/.../4p	CF-T 32 W/...	T32TBX/.../A/4p	
TC-TEL (I)			42	GX 24 q-4	3200	ww, nw	1B	Dulux T/E 42 W/... (IN PLUS)	PL-T 42 W/.../4p	-	-	
TC-TELI			57	GX 24 q-5	4300	ww, nw	1B	Dulux T/E 57 W/... (IN PLUS)	-	-	-	
TC-TEL (I)			60	2G8	4000	ww, nw	1B	-	PL-H 60 W/.../4PA	-	-	
TC-TELI			70	GX 24 q-6	5200	ww, nw	1B	Dulux T/E 70 W/... (IN PLUS)	-	-	-	
TC-TEL (I)			85	2G8	6000	ww, nw	1B	-	PL-H 85 W/.../4PA	-	-	
TC-TEL (I)			120	2G8	9000	ww, nw	1B	-	PL-H 120 W/.../4PA	-	-	
TC-L			18	2 G 11	1200	ww, nw	1B	Dulux L 18 W/...	PL-L 18 W/.../4p	CF-L 18 W/...	F18BX/...	
TC-L			18	2 G 11	750	ww, nw, tw	1A	Dulux L 18 W/...	PL-L 18 W/.../4p	CF-L 18 W/...	F18BX/...	
TC-L			24	2 G 11	1800	ww, nw	1B	Dulux L 24 W/...	PL-L 24 W/.../4p	CF-L 24 W/...	F24BX/...	
TC-L			24	2 G 11	1200	ww, nw, tw	1A	Dulux L 24 W/...	PL-L 24 W/.../4p	CF-L 24 W/...	F24BX/...	
TC-L			36	2 G 11	2900	ww, nw	1B	Dulux L 36 W/...	PL-L 36 W/.../4p	CF-L 36 W/...	F36BX/...	
TC-L			36	2 G 11	1900	ww, nw, tw	1A	Dulux L 36 W/...	PL-L 36 W/.../4p	CF-L 36 W/...	F36BX/...	
TC-L			40	2 G 11	3500	ww, nw	1B	Dulux L 40 W/...	PL-L 40 W/.../4p	CF-LE 40 W/...	F40BX/...	
TC-L			55	2 G 11	4800	ww, nw	1B	Dulux L 55 W/...	PL-L 55 W/.../4p	CF-LE 55 W/...	F55BX/...	
TC-L			55	2 G 11	3000	ww, nw	1A	Dulux L 55 W/...	PL-L 55 W/.../4p	-	F55BX/...	
TC-L			80	2 G 11	6000	ww, nw	1B	Dulux L 80 W/...	-	-	-	
circular fluorescent lamps		T16-R	(T-R 5)	22	2GX 13	1800	ww, nw, tw	1B	FC 22	TL 5 C 22W	-	(HP)
		T16-R	(T-R 5)	40	2GX 13	3200	ww, nw, tw	1B	FC 40	TL 5 C 40W	-	(HP)
		T16-R	(T-R 5)	55	2GX 13	4000	ww, nw, tw	1B	FC 55	TL 5 C 55W	-	(ax)
		T16-R	(T-R 5)	60	2GX 13	5000	ww, nw, tw	1B	-	TL 5 C 60W	-	(ax)
		low-voltage halogen filament lamps	QT 9-TR		5	G 4	60	ww	644055	13283	-	-
QT 9-TR			10	G 4	130	ww	1A	64415	(ax)	-	-	(HP)
QT 9-TR			20	G 4	320	ww	1A	64425	(ax)	-	-	(ax)
QT 12-ax		(QT 12)	20	GY 6,35	320	ww	1A	644275	13104	Halogen Axial 20 W	Q20T3/12V	
QT 12-ax	(QT 12)	35	GY 6,35	600	ww	1A	644325	13103	Halogen Axial 35 W	Q35T3/12V		
QT 12-ax	(QT 12)	50	GY 6,35	930	ww	1A	644405	13102	Halogen Axial 50 W	Q50T3/12V		
QT 12-ax	(QT 12)	75	GY 6,35	1450	ww	1A	644505	13101	Halogen Axial 75 W	Q75T3/12V		
QT 12-ax	(QT 12)	90	GY 6,35	1800	ww	1A	644585	-	-	-		
QOT 12-ax	(QT 12)	100	GY 6,35	2200	ww	1A	-	13100/12302	Halogen Axial 100 W	-		
with dichroic reflector, closed	QR-CBC 35/10°-38°		20	GU 4	ca. 320	ww	44890 SP/WFL	12300/12314	FTB/FTD 12V/20W	Precise MR 11		
	QR-CBC 35/10°-38°		35	GU 4	ca. 600	ww	44892 SP/WFL	12312	FTE/FTH 12V/35W	Precise MR 11		
	QR-CBC 51/8°-60°		20	GU 5,3	ca. 320	ww	44860 SP/WFL	6642/6643/6644	ESX/BAB 12V/20W	Precise MR 16		
	QR-CBC 51/8°-60°		35	GU 5,3	ca. 600	ww	44865 SP/WFL	6645/6646/6647	FMT/FMW 12V/35W	Precise MR 16		
	QR-CBC 51/8°-60°		50	GU 5,3	ca. 930	ww	44870 SP/WFL	6648/6649/6650/6685	EXT/EXZ/EXN/FNV 12V/30W	Precise MR 16		
with dichroic reflector, open	QR-CBS1/10°-38°		20	GU 5,3	ca. 320	ww	41860 SP/FL	-	-	-	33071..	
	QR-CBS1/10°-38°		35	GU 5,3	ca. 600	ww	41865 SP/FL	-	-	-	33071..	
	QR-CBS1/10°-38°		50	GU 5,3	ca. 930	ww	41870 SP/FL	-	-	-	33071..	
with aluminium reflector	QR-LP 111	(AR111)	35	G 5,3	ca. 600	ww	41832 SP/FL	-	-	-	-	
	QR-LP 111	(AR111)	50	G 5,3	ca. 930	ww	41835 SP/FL	-	-	-	-	
	QR-LP 111	(AR111)	75	G 5,3	ca. 1450	ww	41840 SP/FL/WFL	-	-	-	-	
	QR-LP 111	(AR111)	100	G 5,3	ca. 2200	ww	41850 SP/FL/WFL	-	-	-	-	

- Note: The information on the luminaire rating plate and the lamp manufacturer's directions must be noted when installing the first lamps and for relamping.
- The specified lumen outputs are based on information from the manufacturers OSRAM and Philips.

Category	Designation (LBS)	Wattage [W]	Cap	Typ. lumen output [lm]	Possible light colours	Colour rendering index	OSRAM	Philips	Sylvania	GE
metal halide lamps,	HIE	70	E 27	4500	ww, nw	1B	HQI-E 70/...	-	HSI-MP 75 W/...	-
	HIE	100	E 27	8200	ww, nw	1B	HQI-E 100/...	-	HSI-MP 100 W/...	-
	HIE	150	E 27	11400	nw	1B	HQI-E 150/...	HPI Plus 250 W BU	HSI-MP 150 W/CL U	-
quartz	HIE	250	E 40	19000	nw	2B	HQI-E 250/D	HPI Plus 400 W BU	-	ARC250/D/H/VBU/960
	HIE	400	E 40	43000	ww, nw	2B	HQI-E 400/N	-	HSI-MP 400 W/C/BU	-
ceramic	HIE	1000	E 40	90000	nw	2B	HQI-E 1000/N	-	-	-
	HIE-CE-P	70	E 27	5700	NDL,WDL	1A/1B	HCI-E/P 70/...	-	-	-
	HIE-CE-P	100	E 27	8600	WDL	1A/1B	HCI-E/P 100/...	-	-	-
quartz	HIE-CE-P	150	E 27	12500	NDL,WDL	1A/1B	HCI-E/P 150/...	-	-	-
	HIT-UVR	70	G 12	5500	ww, nw	1B	HQI-T 70/...	-	HSI-T 70 W/WDL	ARC70/T/U/...
	HIT-UVR	150	G 12	13000	ww, nw	1B	HQI-T 150/...	-	HSI-T 150 W/WDL	ARC150/T/U/...
ceramic	HIT	70	PG 12-2	5300	nw	1B	-	MHN-T 70 W	-	-
	HIT	250	E 40	20000	nw, tw	1A	HQI-T 250/D	HPI-T 250W	HSI-T 250 W/D	ARC 250/T.
	HIT-H	400	E 40	42000	nw	2B	HQI-T 400/N	HPI-T 400W	HSI-T 400 W/D	ARC 400/T.
	HIT-CE	35	G 12	3400	ww	1B	HCI-T 35/WDL	CDM-T 35W / 830	-	-
	HIT-CE	70	G 12	6400	ww, nw	1B	HCI-T 70/WDL	CDM-T 70 W	-	CMH70/T/...
	HIT-CE	150	G 12	13000	ww, nw	1B	HCI-T 150	CDM-T 150 W	-	CMH150/T/...
	HIT-TC-CE	35	G8,5	3300	ww	1B	HCI-TC 35	CDM-TC 35W / 830	-	-
	HIT-TC-CE	70	G8,5	6000	ww, nw	1B	HCI-TC 70	CDM-TC 70W / 830	-	-
	HIT-CE	70	E 27	6300	ww	1B	-	CDM-TT 70W	-	-
	HIT-CE	150	E 40	13500	ww	1B	-	CDM-TT 150W	-	-
quartz	HIT-DE	70	RX 7s	5000	ww, nw, tw	1B	HQI-TS 70/...	MHN-TD 70 W	HSI-TD 70 W/...	ARC70/TD/...
	HIT-DE	150	RX 7s-24	11000	ww, nw, tw	1B	HQI-TS 150/...	MHN-TD 150 W	HSI-TD 150 W/...	ARC150/TD/...
	HIT-DE	250	Fc 2	20000	ww, nw, tw	1B	HQI-TS 250/...	MHN-TD 250 W	HSI-TD 250 W/...	ARC250/TD/...
	HIT-DE	400	Fc 2	35000	ww, nw, tw	1B	HQI-TS/NDL	-	-	-
	HIT-DE	1000	Kabel	90000	nw, tw	1A	HQI-TS/1000/D/S	no product	-	-
	HIT-DE	2000	Kabel	200000	nw, tw	1A	HQI-TS/2000/D/S	no product at present	-	-
	HIT-DE-CE	70	RX 7s	6300	ww, nw	1B	HCI-TS 70	CDM-TD 70 W	-	CMH70/TD/...
ceramic	HIT-DE-CE	150	RX 7s	13500	ww, nw	1B	HCI-TS 150	CDM-TD 150 W	-	CMH150/TD/...
	HIT-DE-CE	150	RX 7s	13500	ww, nw	1B	HCI-TS 150	CDM-TD 150 W	-	CMH150/TD/...
mercury vapour lamps	HME	50	E 27	1600	ww	2B	HQL 50 Super De Luxe	-	-	-
	HME	50	E 27	2000	ww	3	HQL 50 De Luxe	HPL-Comfort 50 W	HSL-SC 50 W	H50N/DX
	HME	50	E 27	1800	nw	3	HQL 50	HPL-N 50 W	HSL-BW 50 W	H50
	HME	80	E 27	3400	ww	2B	HQL 80 Super De Luxe	-	-	-
	HME	80	E 27	4000	ww	3	HQL 80 De Luxe	HPL-Comfort 80 W	HSL-SC 80 W	H80N/DX
	HME	80	E 27	3800	nw	3	HQL 80	HPL-N 80 W	HSL-BW 80 W	H80
	HME	125	E 27	6300	nw	3	HQL 125	HPL-N 125 W	HSL-BW 125 W	H125
	HME	250	E 40	14000	nw	3	HQL 250 De Luxe	HPL-Comfort 250 W HG	HSL-SC 250 W	HR250NDX
	HME	400	E 40	24000	nw	3	HQL 400 De Luxe	HPL-Comfort 400 W HG	HSL-SC 400 W	HR400NDX
	HME	400	E 40	24000	nw	3	HQL 400 De Luxe	HPL-Comfort 400 W HG	HSL-SC 400 W	HR400NDX
high pressure sodium lamps	HSE-E	50	E 27	3500	ww	4	NAV-E 50/E	SON 50 W-E	SHP 50 W/CO/E	LU50/90/D/I
	HSE-E	70	E 27	5600	ww	4	NAV-E 70/E	SON 70 W-E	SHP 70 W/CO/E	LU70/90/D/I
	HSE	150	E 40	14000	ww	4	NAV-E 150	SON 150 W	SHP 150 W	LU150/100/D
	HSE	250	E 40	25000	ww	4	NAV-E 250	SON 250 W	SHP 250 W	LU250/D
	HSE	400	E 40	47000	ww	4	NAV-E 400	SON 400 W	SHP 400 W	LU400/D
	HSE	1000	E 40	128000	ww	4	NAV-E 1000	SON 1000 W	-	LU1000/110/D
	HST	70	E 27	5900	ww	4	NAV-T 70	SON-T 70W	SHP-TS 70W	LU 70/90/T
	HST	150	E 40	14500	L	4	NAV-T 150	SON-T 150W	SHP-TS 150W	LU 150/100/T
	HST	250	E 40	27000	ww	4	NAV-T 250	SON-T 250W	SHP-TS 250W	LU 250/T
	HST	400	E 40	48000	ww	4	NAV-T 400	SON-T 400W	SHP-TS 400W	LU 400/T
	HST-MF	600	E 40	90000	ww	4	NAV-T 600 SUPER	SON-T PLUS 600W	SHP-TS 600W	LU 600/HO/T
	HST	1000	E 40	130000	ww	4	NAV-T 1000	SON-T 1000W	SHP-T 1000W	LU 1000/110/T
	HST-DE	70	RX 7s	6800	ww	4	NAV-TS 70 SUPER	-	-	-
HST-DE	150	RX 7s-24	15000	ww	4	NAV-TS 150 SUPER	-	-	-	
HST-DE	250	Fc 2	25500	ww	4	NAV-TS 250	-	-	-	
HST-DE	400	Fc 2	48000	ww	4	NAV-TS 400	-	-	-	
high pressure sodium lamps	HST-CRI	35	PG12-1	1300	2500K	Ri 83	-	SDW-T 35	-	-
	HST-CRI	50	PG12-1	2300	2500K	Ri 83	-	SDW-T 50	-	-
	HST-CRI	100	PG12-1	5000	2550K	Ri 83	-	SDW-T 100	-	-
	HST-CRI	50	GX12-1	2400	2550 K	Ri 81	-	SDW-TG 50W	-	-
	HST-CRI	100	GX12-1	4900	2550 K	Ri 83	-	SDW-TG 100W	-	-
filament lamps	A 60	40	E 27	430	ww	1A	A CL 40/A FR 40	40 W E27 clear/matt	40 W E27 clear/satin	40A1/FR
	A 60	60	E 27	730	ww	1A	A CL 60/A FR 60	60 W E27 clear/matt	60 W E27 clear/satin	60A1/CL
	A 60	75	E 27	960	ww	1A	A CL 75/A FR 75	75 W E27 clear/matt	75 W E27 clear/satin	75A1/CL
	A 60	100	E 27	1380	ww	1A	A CL 100/A FR 100	100 W E27 clear/matt	100 W E27 clear/satin	100A1/CL
	A 65	150	E 27	2200	ww	1A	A CL 150/A FR 150	150 W E27 clear/matt	150 W E27 clear/satin	150A1/CL
	A 80	200	E 27	3150	ww	1A	A CL 200/A FR 200	200 W E27 clear/matt	200 W E27 clear/satin	200A1/CL
tubular filament lamp	T-4 25	15	E 14	90	ww	1A	SPT.125/85CL15	T 17 clear	7314	-
	T-4 25	25	E 14	190	ww	1A	SPT.125/85CL25	T 25 clear	7350	-
	T-4 30	40	E 14	380	ww	1A	SPT.130/73FR40	-	-	-
tungsten halogen lamps 230 V	QT 18	60	B 15d	820	ww	1A	64469 KL/AM	-	-	-
	QT 18	75	B 15d	1100	ww	1A	64473 KL/AM	12123/12120	-	-
	QT 18	100	B 15d	1500	ww	1A	64475 KL/AM	12122/12119	-	-
	QT 18	150	B 15d	2500	ww	1A	64471 KL/AM	12121/12118	-	-
	QT 26	25	E 14	250	ww	1A	64860T	-	-	-
	QT 26	40	E 14	490	ww	1A	64861T/TIM	14001	-	-
	QT 26	60	E 14	820	ww	1A	64862T/TIM	14005	-	-
	QT 32	60	E 27	840	ww	1A	64472 KL/IM	13656	60 W DLX/BTT clear/satin	Halo BTT 60 ES 230 CL
	QT 32	75	E 27	1050	ww	1A	64474 KL/IM	-	-	-
	QT 32	100	E 27	1400	ww	1A	64476 KL/IM	13662	100 W DLX/BTT clear/satin	Halo BTT 100 ES 230 CL
tubular halogen lamps 230 V	QT 32	150	E 27	2500	ww	1A	64478 KL/IM	13946	150 W DLX/BTT clear/satin	-
	QT 32	250	E 27	4200	ww	1A	64480 KL/IM	-	-	-
	QT-DE 11/12	60	R7s	840	ww	1A	64688	60 T3Q/CL/P	tubular halogen 60 W	-
	QT-DE 11/12	100	R7s	1650	ww	1A	64690	100 T3Q/CL/P	tubular halogen 100 W	29112
	QT-DE 11/12	150	R7s	2600	ww	1A	64695	150 T3Q/CL/P	tubular halogen 150 W	29123
	QT-DE 11/12	200	R7s	3200	ww	1A	64698	200 T3Q/CL/P	tubular halogen 200 W	29134
	QT-DE 11/12	250	R7s	5500	ww	1A	63467 IRC	-	-	-
	QT-DE 11/12	300	R7s	5000	ww	1A	64701	300 T3Q/CL/P	tubular halogen 300 W	29159
	QT-DE 11/12	400	R7s	9500	ww	1A	63469 IRC	-	-	-
	QT-DE 11/12	500	R7s	9500	ww	1A	64702	500 T3Q/CL/P	tubular halogen 500 W	29165

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5LA 246 7-2KS0A508	10   23	5LE 981 1-1UA	7   6	5LF 612 7-1R	2   9	5LF 836 7-1XST	2   27
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5LA 246 7-2KS0BS08	10   25	5LE 981 1-1UR	7   6	5LF 614 7-1R	2   9	5LF 836 7-5JST	2   27
5LA 246 7-2KS0BW08	10   25	5LE 981 1-1UR	7   7	5LF 619 7-1F	2   9	5LF 900 0-1L	2   18
5LA 246 7-2KS0HS08	10   25	5LE 982 1-1RR2	7   6	5LF 619 7-1F	6   5	5LF 900 0-1L	2   18
5LA 246 7-2KS0HW08	10   25	5LE 982 1-1RR2	7   7	5LF 619 7-1J	2   9	5LF 900 0-1L	2   18
5LA 246 7-2KS0MS08	10   23	5LE 982 1-1UR2	7   6	5LF 619 7-1J	6   5	5LF 900 0-1L	2   19
5LA 246 7-2KS0MW08	10   23	5LE 982 1-1UR2	7   7	5LF 619 7-1P	2   9	5LF 900 0-1L	2   30
5LA 246 7-2KS0TS08	10   23	5LF 112 7-3MA0000A	3   10	5LF 619 7-1P	6   5	5LF 900 0-1L	2   30
5LA 246 7-2KS0TW08	10   23	5LF 112 7-3YA0000A	3   10	5LF 619 7-1R	2   9	5LF 900 0-1L	2   30
5LA 247 7-2KA0AS08	10   7	5LF 112 7-6YA0000A	3   10	5LF 619 7-1R	6   5	5LF 900 0-1L	2   30
5LA 247 7-2KA0AW08	10   7	5LF 114 7-3MA0000A	3   10	5LF 619 7-1X	2   9	5LF 900 0-1L	2   30
5LA 247 7-2KA0HS08	10   9	5LF 114 7-3YA0000A	3   10	5LF 619 7-1X	6   5	5LF 900 0-1L	2   31
5LA 247 7-2KA0MS08	10   7	5LF 114 7-6YA0000A	3   10	5LF 642 7-1F	2   9	5LF 900 0-1L	2   31
5LA 247 7-2KA0MW08	10   7	5LF 122 7-3MA0000A	3   10	5LF 642 7-1J	2   9	5LF 900 0-1L	7   16
5LA 247 7-2KA0TS08	10   7	5LF 122 7-6YA0000A	3   10	5LF 642 7-1P	2   9	5LF 900 0-1L	7   16
5LA 247 7-2KA0TW08	10   7	5LF 124 7-3MA0000A	3   10	5LF 642 7-1R	2   9	5LF 900 0-1L	7   16
5LA 261 7-2KS36	10   33	5LF 124 7-6YA0000A	3   10	5LF 642 7-1X	2   9	5LF 900 0-2L	2   18
5LA 263 7-2KA16	10   32	5LF 285 7-2J	8   14	5LF 642 7-5J	2   9	5LF 900 0-2L	2   18
5LA 272 7-15B0508	10   28	5LF 285 7-2X	8   14	5LF 642 7-5P	2   9	5LF 900 0-2L	2   18
5LA 287 2-1PG108	11   6	5LF 285 7-3X	8   14	5LF 642 7-5R	2   9	5LF 900 0-2L	2   19
5LA 442 7-3TE32	10   29	5LF 286 7-2J	8   14	5LF 644 7-1F	2   9	5LF 900 0-2L	2   30
5LA 442 7-3TE42	10   29	5LF 286 7-2X	8   14	5LF 644 7-1J	2   9	5LF 900 0-2L	2   30
5LA 522 0-1XR	10   35	5LF 286 7-3X	8   14	5LF 644 7-1P	2   9	5LF 900 0-2L	2   30
5LA 522 0-1XR	10   35	5LF 414 7-1F	3   11	5LF 644 7-1R	2   9	5LF 900 0-2L	2   30
5LA 522 0-1XR	10   35	5LF 414 7-1J	3   11	5LF 644 7-1X	2   9	5LF 900 0-2L	2   30
5LA 523 7-2KF18	10   20	5LF 414 7-1P	3   11	5LF 644 7-5J	2   9	5LF 900 0-2L	2   31
5LA 523 7-2KS28	10   20	5LF 414 7-1R	3   11	5LF 644 7-5P	2   9	5LF 900 0-2L	2   31
5LA 523 7-2KS38	10   20	5LF 414 7-1X	3   11	5LF 644 7-5R	2   9	5LF 900 0-2L	7   16
5LA 525 7-2KF18	10   19	5LF 414 7-2F	3   11	5LF 650 7-1J	2   9	5LF 900 0-2L	7   16
5LA 525 7-2KS28	10   19	5LF 414 7-2J	3   11	5LF 650 7-1K	2   9	5LF 900 0-2L	7   16
5LA 527 7-2KF48	10   19	5LF 414 7-2P	3   11	5LF 650 7-1N	2   9	5LF 900 0-3L	2   18
5LA 527 7-2KS18	10   17	5LF 414 7-2R	3   11	5LF 650 7-1P	2   9	5LF 900 0-3L	2   18
5LA 527 7-2KS28	10   17	5LF 414 7-2X	3   11	5LF 650 7-5J	2   9	5LF 900 0-3L	2   18
5LA 527 7-2KS38	10   19	5LF 418 7-1F	3   11	5LF 650 7-5K	2   9	5LF 900 0-3L	2   19
5LA 527 7-2KS58	10   17	5LF 418 7-1J	3   11	5LF 650 7-5N	2   9	5LF 900 0-3L	7   16
5LA 527 7-2KS68	10   17	5LF 418 7-1P	3   11	5LF 650 7-5P	2   9	5LF 900 0-3L	7   16
5LA 528 2-1KA3 8D	11   8	5LF 418 7-1R	3   11	5LF 712 7-1FA0000A	3   13	5LF 900 0-3L	7   16
5LA 528 2-2KS2 8	11   8	5LF 418 7-1X	3   11	5LF 712 7-1XA0000A	3   13	5LF 900 0-5L	2   30
5LA 528 2-2KS5 8	11   8	5LF 418 7-2F	3   11	5LF 712 7-2YA0000A	3   13	5LF 900 0-5L	2   30
5LA 529 2-2KS2 8	11   9	5LF 418 7-2J	3   11	5LF 712 7-3MA0000A	3   13	5LF 900 0-5L	2   30
5LA 529 2-2KS2 8D	11   9	5LF 418 7-2P	3   11	5LF 714 7-1FA0000A	3   13	5LF 900 0-5L	2   30
5LA 529 2-2KS5	11   9	5LF 418 7-2R	3   11	5LF 714 7-1XA0000A	3   13	5LF 900 0-5L	2   30
5LA 900 1-11A1 00	11   4	5LF 418 7-2X	3   11	5LF 714 7-2YA0000A	3   13	5LF 900 0-5L	2   31
5LA 910 1-11A300	11   5	5LF 41W 7-1F	3   9	5LF 714 7-3MA0000A	3   13	5LF 900 0-5L	2   31
5LA 912 1-11A308	11   5	5LF 41W 7-1J	3   9	5LF 722 7-2YA0000A	3   13	5LF 900 1-13	3   15
5LA 960 1-1FA300	11   5	5LF 41W 7-1P	3   9	5LF 722 7-3MA0000A	3   13	5LF 900 1-23	3   15
5LA 960 1-1M0300	11   5	5LF 41W 7-1R	3   9	5LF 724 7-2YA0000A	3   13	5LF 900 1-4XC	3   15
5LA 962 1-1FA308	11   5	5LF 41W 7-2F	3   9	5LF 724 7-3MA0000A	3   13	5LF 900 2-13	3   15
5LA 962 1-1M0308	11   5	5LF 41W 7-2P	3   9	5LF 812 7-1FST	2   37	5LF 900 2-23	3   15
5LE 145 0-1RR	7   11	5LF 41W 7-2R	3   9	5LF 812 7-1JST	2   37	5LF 900 2-4XC	3   15
5LE 145 0-1UR	7   11	5LF 512 7-1FS	2   36	5LF 812 7-1RST	2   37	5LF 901 1	3   15
5LE 145 0-2RR	7   11	5LF 512 7-1FS	2   36	5LF 812 7-5FST	2   37	5LF 901 1-0XC	3   15
5LE 145 0-2UR	7   11	5LF 512 7-1JS	2   36	5LF 812 7-5PST	2   37	5LF 901 2	3   15
5LE 146 0-1RR	7   10	5LF 512 7-1JS	2   36	5LF 814 7-1FST	2   37	5LF 908 4	8   20
5LE 146 0-1RR	7   10	5LF 512 7-1RS	2   36	5LF 814 7-1JST	2   37	5LF 909 1-0XV	8   20
5LE 146 0-1RR	7   10	5LF 512 7-2FS	2   36	5LF 814 7-1RST	2   37	5LF 909 2-0X	8   20
5LE 146 0-1RR	7   11	5LF 512 7-2RS	2   36	5LF 814 7-5FST	2   37	5LF 910 1-1	3   15
5LE 146 0-1RR1	7   10	5LF 514 7-1FS	2   36	5LF 814 7-5PST	2   37	5LF 910 1-2	3   15
5LE 146 0-1UR	7   10	5LF 514 7-1JS	2   36	5LF 816 7-1FST	2   37	5LF 910 1-3	3   15
5LE 146 0-1UR	7   10	5LF 514 7-1RS	2   36	5LF 816 7-1JST	2   37	5LF 910 2-1	3   15
5LE 146 0-1UR	7   10	5LF 514 7-2FS	2   36	5LF 816 7-1RST	2   37	5LF 910 2-2	3   15
5LE 146 0-1UR	7   11	5LF 514 7-2RS	2   36	5LF 816 7-5FST	2   37	5LF 910 2-3	3   15
5LE 146 0-1UR1	7   10	5LF 516 7-1FS	2   36	5LF 816 7-5PST	2   37	5LF 912 0-2AC	2   19
5LE 149 0-1RR	7   11	5LF 516 7-1JS	2   36	5LF 832 7-1FST	2   27	5LF 912 0-5B0D	2   31
5LE 149 0-1UR	7   11	5LF 516 7-1RS	2   36	5LF 832 7-1JST	2   27	5LF 912 0-5XC	2   11
5LE 978 0-1UR	2   13	5LF 516 7-2FS	2   36	5LF 832 7-1XST	2   27	5LF 912 0-6XC	2   11
5LE 978 0-1XR	2   13	5LF 516 7-2RS	2   36	5LF 832 7-5FST	2   27	5LF 913 0-1AC	2   18
5LE 980 1-1RR	7   6	5LF 519 7-1FS	6   6	5LF 832 7-5JST	2   27	5LF 913 0-20D	2   31
5LE 980 1-1RR	7   7	5LF 519 7-1JS	6   6	5LF 834 7-1FST	2   27	5LF 913 0-2A	2   30
5LE 980 1-1UR	7   6	5LF 519 7-1PS	2   36	5LF 834 7-1JST	2   27	5LF 913 0-2AC	2   18
5LE 980 1-1UR	7   7	5LF 519 7-1PS	6   6	5LF 834 7-1XST	2   27	5LF 913 0-2BD	2   31
5LE 981 1-1RA	7   6	5LF 519 7-1RS	2   36	5LF 834 7-5FST	2   27	5LF 913 0-5B0D	2   31



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5LF 913 0-5BC	2   18	5U 145 3-1R5	7   11	5U 909 0-1	7   16	5LJ 969 0-1	7   16
5LF 913 0-6BC	2   18	5U 145 3-1U5	7   11	5U 909 1-0XC	7   16	5LJ 969 0-1	2   18
5LF 913 1-1AC	2   18	5U 149 1-2R	7   10	5U 909 1-0XV	7   10	5LJ 969 0-2	7   16
5LF 913 1-2A	2   30	5U 149 1-2U	7   10	5U 909 1-1XC	7   16	5LJ 969 1-0E	7   10
5LF 913 1-2AC	2   18	5U 155 7-3E	8   15	5U 909 1-2XC	7   16	5LJ 969 1-0E1	7   10
5LF 915 0-10D	2   31	5U 155 7-3E	8   15	5U 909 3-0XC	7   16	5LJ 969 1-0U	7   10
5LF 915 0-1A	2   30	5U 155 7-4E	8   15	5U 913 7-1U	7   5	5LJ 969 1-0U1	7   10
5LF 915 0-1AC	2   18	5U 165 7-1CX	2   38	5U 913 7-1UM	7   5	5LJ 969 1-0XD	7   10
5LF 915 0-1AC	2   19	5U 165 7-1EX	2   38	5U 913 7-1UMD	7   5	5LJ 969 2-0E	7   11
5LF 915 0-2AC	2   18	5U 234 7-1E	8   12	5U 913 7-1UX03D	7   5	5LJ 969 2-0E1	7   11
5LF 915 0-2BD	2   31	5U 234 7-2E	8   12	5U 913 7-1UX04D	7   5	5LJ 969 2-0U	7   11
5LF 915 0-5BC	2   18	5U 234 7-3A	8   12	5U 913 7-1X	7   5	5LJ 969 2-0U1	7   11
5LF 915 0-6BC	2   18	5U 234 7-4A	8   12	5U 913 7-1XMD	7   5	5LJ 969 2-0XV	7   10
5LF 915 1-10D	2   31	5U 235 7-1E	8   12	5U 913 7-1XX03D	7   5	5LJ 969 3-0E	7   11
5LF 915 1-1A	2   30	5U 235 7-1EX1	8   12	5U 913 7-1XX04D	7   5	5LJ 969 3-0E1	7   11
5LF 915 1-1AC	2   18	5U 235 7-1EX3	8   12	5U 933 7-1U	7   5	5LJ 969 3-0U	7   11
5LF 915 1-2AC	2   18	5U 235 7-1EX4	8   12	5U 933 7-1UM	7   5	5LJ 969 3-0U1	7   11
5LF 915 2-1AC	2   18	5U 235 7-2EX1	8   12	5U 933 7-1UMD	7   5	5LJ 969 3-0XV	7   10
5LF 915 2-1AC	2   19	5U 235 7-2EX3	8   12	5U 933 7-1UX03D	7   5	5LJ 969 4-0XV	7   10
5LF 915 2-2AC	2   18	5U 235 7-4A	8   12	5U 933 7-1UX04D	7   5	5LJ 976 7-1U	2   13
5LF 941 1-1A	2   11	5U 443 7-4AX2	8   13	5U 933 7-1UX11	2   26	5LJ 976 7-1X	2   13
5LF 941 1-1AW	2   11	5U 444 7-4AX2	8   13	5U 933 7-1UX12	2   26	5LJ 978 7-1U	2   13
5LF 941 1-1AW1	2   11	5U 461 1-0XC	8   20	5U 933 7-1X	7   5	5LJ 978 7-1X	2   13
5LF 941 2-4AH	2   11	5U 461 7-4AX2	8   13	5U 933 7-1XMD	7   5	5LJ 979 1-0E	2   15
5LF 941 2-5AL	2   11	5U 484 0-0XJ	8   20	5U 933 7-1XX03D	7   5	5LJ 979 1-0U	2   15
5LF 941 2-5AR	2   11	5U 484 0-0XJ	3   14	5U 933 7-1XX04D	7   5	5LJ 979 1-0XV	2   15
5LF 941 2-5AV	2   11	5U 510 8-7KU83	5   10	5U 933 7-1XX11	2   26	5LJ 979 2-0E	2   15
5LF 941 2-6AR1	2   11	5U 510 8-7KU84	5   10	5U 935 7-2U	2   28	5LJ 979 2-0U	2   15
5LF 941 2-6AS1	2   11	5U 530 0-0XC 1	8   20	5U 935 7-2UX02	2   28	5LJ 979 2-0XD	2   15
5LF 941 2-7AR1	2   11	5U 681 7-1C	3   7	5U 941 0-1DS	7   13	5LJ 979 3-0E	2   15
5LF 941 2-7AS1	2   11	5U 681 7-1E	3   7	5U 941 7-1MS	7   13	5LJ 979 3-0U	2   15
5LF 941 2-8AR1	2   11	5U 681 7-1T	3   7	5U 951 0-1CS	7   13	5LJ 986 7-1U	2   13
5LF 941 2-8AS1	2   11	5U 681 7-1U	3   7	5U 951 0-22	3   14	5LJ 986 7-1X	2   13
5LF 941 G-1A1	2   11	5U 681 7-2C	3   7	5U 951 0-32	3   14	5LJ 988 7-1U	2   13
5LF 941 G-1AW1	2   11	5U 681 7-2E	3   7	5U 951 7-1HS	7   13	5LJ 988 7-1X	2   13
5LJ 100 0-1UB	2   40	5U 691 7-1U	3   7	5U 951 7-1JS	7   13	5LK 913 0-0	2   18
5LJ 100 0-1XB	2   40	5U 800 0-2XK	2   18	5U 951 7-1SS	7   13	5LM 913 0-0	7   16
5LJ 100 0-2UB	2   40	5U 800 0-2XK	2   30	5U 952 7-1HS	7   13	5LK 913 0-05	7   16
5LJ 100 2-1EK1	2   40	5U 800 0-2XK	2   31	5U 952 7-1JS	7   13	5LM 177 2-3BS65 1190	2   24
5LJ 100 7-1F	2   40	5U 800 0-2XK	3   14	5U 968 0-0ED	7   10	5LM 177 2-3BS65 1290	2   24
5LJ 100 7-1U	2   40	5U 800 0-2XK	3   15	5U 968 0-0ED	7   11	5LM 177 2-7BS66 1190	2   24
5LJ 100 7-1X	2   40	5U 800 0-2XK	7   16	5U 968 0-0XK	9   10	5LM 177 2-7BS66 1290	2   24
5LJ 100 7-1Y	2   40	5U 800 0-2XK	8   20	5U 968 3-0ED	2   15	5LM 177 4-3BS65 1190	2   24
5LJ 100 7-2U	2   40	5U 800 0-3XK	2   18	5U 968 3-0ED	7   10	5LM 177 4-3BS65 1290	2   24
5LJ 101 0-1UB	2   40	5U 800 0-3XK	7   16	5U 968 3-0ED	7   11	5LM 177 4-7BS66 1190	2   24
5LJ 101 0-1XB	2   40	5U 800 0-3XK	8   20	5U 968 7-1F	7   10	5LM 177 4-7BS66 1290	2   24
5LJ 145 1-0XD5	7   10	5U 800 0-5XK	2   18	5U 968 7-1F	7   11	5LM 375 0-15	2   31
5LJ 145 1-0XD5	7   10	5U 800 0-5XK	7   16	5U 968 7-1P	7   10	5LM 375 0-15	2   31
5LJ 145 1-0XD5	7   10	5U 881 7-1C	2   39	5U 968 7-1P	7   11	5LM 375 7-2XL15	2   23
5LJ 145 1-0XD5	7   11	5U 881 7-1E	2   39	5U 968 7-1R	7   10	5LM 377 0-15	2   30
5LJ 145 1-0XD5	7   11	5U 881 7-1T	2   39	5U 968 7-1R	7   11	5LM 377 0-1W	2   30
5LJ 145 1-0XD5	7   11	5U 881 7-1T	4   14	5U 968 7-1U	7   10	5LM 377 0-25	2   30
5LJ 145 1-1RS	7   10	5U 881 7-1U	2   39	5U 968 7-1U	7   11	5LM 377 0-2W	2   30
5LJ 145 1-1US	7   10	5U 881 7-2C	2   39	5U 968 7-1UD01	9   10	5LM 377 0-35	2   30
5LJ 145 1-1XD5	7   10	5U 881 7-2E	2   39	5U 968 7-1UD2	9   10	5LM 377 0-3W	2   30
5LJ 145 1-1XD5	7   10	5U 900 0-0ED	7   16	5U 968 7-1UD3	9   10	5LM 377 7-2UL15	2   22
5LJ 145 1-1XD5	7   10	5U 900 1-0ED	7   7	5U 968 7-1X	7   10	5LM 377 7-2XL15	2   22
5LJ 145 1-1XD5	7   11	5U 900 1-0XV1	7   7	5U 968 7-1X	7   11	5LM 378 0-15	2   30
5LJ 145 1-1XD5	7   11	5U 900 2-0XC	7   16	5U 968 7-1X	9   10	5LM 378 0-25	2   30
5LJ 145 1-1XD5	7   11	5U 900 2-0XCT	7   16	5U 968 7-1XD01	9   10	5LM 378 0-25	2   30
5LJ 145 1-2US	7   10	5U 900 3-0ED1	7   7	5U 968 7-2F	7   10	5LM 378 7-2UN15	2   23
5LJ 145 1-2US	7   11	5U 900 3-0EDA1	7   7	5U 968 7-2F	7   11	5LM 378 7-2XN15	2   23
5LJ 145 1-2US	7   11	5U 900 3-0EDA2	7   7	5U 968 7-2P	7   10	5LM 411 0-7WK1	1   7
5LJ 145 1-2XD5	7   11	5U 900 3-0EDA3	7   7	5U 968 7-2P	7   11	5LM 411 0-7WL1	1   6
5LJ 145 1-2XD5	7   11	5U 900 3-0EDA3	7   7	5U 968 7-2R	7   10	5LM 411 7-65K1	1   7
5LJ 145 1-2XD5	7   11	5U 900 3-0UD1	7   7	5U 968 7-2R	7   11	5LM 411 7-65L1	1   6
5LJ 145 1-2XS	7   10	5U 900 4-0ED1	7   7	5U 968 7-2U	7   10	5LM 412 0-7WK1	1   7
5LJ 145 1-2XS	7   11	5U 900 5-0ED	7   16	5U 968 7-2U	7   11	5LM 412 0-7WL1	1   6
5LJ 145 1-2XS	7   11	5U 900 7-0XC	7   16	5U 968 7-2UD01	9   10	5LM 412 7-65K1	1   6
5LJ 145 1-3XD5	7   10	5U 900 8-0XC	7   16	5U 968 7-2UD2	9   10	5LM 412 7-65L1	1   6
5LJ 145 1-3XD5	7   10	5U 900 9-0XC	7   16	5U 968 7-2UD3	9   10	5LM 416 6-3KG1	1   4
5LJ 145 1-3XD5	7   10	5U 908 0-0XY	2   18	5U 968 7-2X	7   10	5LM 416 7-3KK1	1   5
5LJ 145 1-3XD5	7   11	5U 908 0-0XY	7   16	5U 968 7-2X	7   11	5LM 424 7-3QL0	1   12
5LJ 145 1-3XD5	7   11	5U 908 1-0XY	2   18	5U 968 7-2XD01	9   10	5LM 426 6-2UL0D	1   12
5LJ 145 1-3XD5	7   11	5U 908 1-0XY	7   16	5LJ 969 0-0	7   16	5LM 426 6-4UL0D	1   12
5LJ 145 2-1RS	7   10	5U 909 0-0XY	2   18	5LJ 969 0-0	2   18	5LM 426 7-2UK0	1   13
5LJ 145 2-1US	7   10	5U 909 0-0XY	7   16	5LJ 969 0-0XV	7   10	5LM 426 7-2UL0	1   12

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5LM 427 7-2ML0	1   12	5LM 593 0-925	2   7	5LR 211 3-1JA64	4   10	5LR 610 7-1TA13LJ	5   8
5LM 477 0-1	2   30	5LM 593 0-935	2   7	5LR 211 7-1GA64	4   10	5LR 610 7-1TA13MJ	5   8
5LM 477 0-3	2   30	5LM 593 1-1A	2   30	5LR 211 7-1PA64	4   10	5LR 610 7-1TA13NJ	5   8
5LM 478 6-4UE0E96	1   14	5LM 593 1-20S	2   18	5LR 211 7-1VA64	4   10	5LR 610 7-1TA13VA	5   8
5LM 478 7-4UE0F96	1   14	5LM 593 1-50S	2   18	5LR 211 8-1HA64	4   10	5LR 610 7-1TA13WJ	5   8
5LM 479 6-4UE0E96	1   15	5LM 621 7-2MS	2   35	5LR 214 7-1GA64	4   10	5LR 610 7-1TA14CE	5   9
5LM 479 7-4UE0F96	1   15	5LM 621 7-2PS	2   35	5LR 214 7-1PA64	4   10	5LR 610 7-1TA14VA	5   8
5LM 480 7-2TL0F96	4   13	5LM 621 7-2RS	2   35	5LR 214 7-2GA64	4   10	5LR 610 7-1TA15CE	5   9
5LM 480 7-2UL0F96	4   13	5LM 621 7-2YS	2   35	5LR 214 7-2PA64	4   10	5LR 610 7-1TA15DE	5   9
5LM 481 7-2SK1	1   9	5LM 622 7-2PS	2   35	5LR 411 ...	5   16	5LR 610 7-1TA17LF	5   8
5LM 511 7-2MS	3   5	5LM 622 7-2RS	2   35	5LR 411 ...	5   16	5LR 610 7-1TA175F	5   8
5LM 511 7-2NS	3   5	5LM 623 7-2FS	2   21	5LR 411 7-1KA61	5   16	5LR 610 7-1TA18LF	5   8
5LM 511 7-2PS	3   5	5LM 623 7-2JS	2   21	5LR 411 7-1PA61	5   16	5LR 610 7-1TA185F	5   8
5LM 511 7-2TS	3   5	5LM 623 7-2PS	2   21	5LR 411 7-1VA61	5   16	5LR 610 7-1TA1SA14EF	5   8
5LM 511 7-2YS	3   5	5LM 623 7-2RS	2   21	5LR 414 ...	5   17	5LR 610 7-1TA43KJ	4   8
5LM 511 7-7LS	3   5	5LM 623 7-2XS	2   21	5LR 414 7-1KA61	5   17	5LR 610 7-1TA43LJ	4   8
5LM 512 7-2MS	3   5	5LM 701 0-0	6   4	5LR 414 7-1VA61	5   17	5LR 610 7-1TA43MJ	4   8
5LM 512 7-2PS	3   5	5LM 701 7-1CX1	6   4	5LR 414 7-2KA61	5   17	5LR 610 7-1TA43NJ	4   8
5LM 512 7-2RS	3   5	5LM 701 7-1CX2	6   4	5LR 414 7-2VA61	5   17	5LR 610 7-1TA43WJ	4   8
5LM 512 7-2YS	3   5	5LM 701 7-1EX1	6   4	5LR 415 ...	5   16	5LR 612 7-1SA4 1AF	4   7
5LM 521 7-2MS	2   5	5LM 701 7-1EX2	6   4	5LR 416 ...	5   17	5LR 612 7-1SA4 2DE	4   9
5LM 521 7-2MS	2   34	5LM 701 7-1F	6   7	5LR 418 ...	5   17	5LR 612 7-1SA4 4EF	4   9
5LM 521 7-2NS	2   34	5LM 701 7-1J	6   7	5LR 418 7-1KA61	5   17	5LR 612 7-1SA4 5CF	4   9
5LM 521 7-2PS	2   5	5LM 701 7-1P	6   7	5LR 418 7-1VA61	5   17	5LR 612 7-1SA4 5DF	4   9
5LM 521 7-2RS	2   5	5LM 701 7-1R	6   7	5LR 418 7-2KA61	5   17	5LR 612 7-1TA4 1AF	4   7
5LM 521 7-2RS	2   5	5LM 702 7-1F	6   7	5LR 418 7-2KA6100N	5   17	5LR 612 7-1TA4 2DE	4   9
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5LM 521 7-2RS	2   34	5LM 702 7-1R	6   7	5LR 418 7-2VA6100N	5   17	5LR 612 7-1TA4 5CF	4   9
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5LM 523 7-2JS	2   20	5LP 912 0-2X	7   16	5LR 425 0-1AA61	5   16	5LR 911 5-0BA	5   19
5LM 523 7-2MS	2   20	5LP 912 1-2X	7   16	5LR 425 0-1JA61	5   16	5LR 911 5-0BC	5   16
5LM 523 7-2NS	2   20	5LP 913 0-3S	2   30	5LR 425 7-1KA61	5   16	5LR 911 5-0BC	5   17
5LM 523 7-2PS	2   20	5LP 940 2-4	2   7	5LR 425 7-1PA61	5   16	5LR 911 5-0BC	5   19
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5LM 591 0-2	3   14	5LR 112 7-2VA61	5   19	5LR 610 7-1SA13NJ	5   8	5LR 911 6-0BD	5   19
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5LM 592 0-2	2   34	5LR 114 7-2GA61	5   19	5LR 610 7-1SA1SA14EF	5   8	5LR 911 6-0BF	5   19
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5LZ 905 100202	15   6	5ME 141 7-3L	9   7	5ME 994 3	9   4	5NA 246 E-1ST0HW08	10   25
5LZ 905 100CF	15   6	5ME 142 1-1L	9   7	5ME 994 3	9   8	5NA 246 E-1ST0MS08	10   23
5LZ 905 110	15   6	5ME 142 1-2L	9   7	5ME 994 4	9   4	5NA 246 E-1ST0MW08	10   23
5LZ 905 110202	15   6	5ME 142 2-1L	9   7	5ME 994 4	9   8	5NA 246 E-1ST0SS08	10   25
5LZ 905 110CF	15   6	5ME 142 2-3L	9   7	5MM 124 6-5UX	2   25	5NA 246 E-1ST0SW08	10   25
5LZ 905 111	15   6	5ME 221 7-1L2	9   6	5MM 124 6-6YX	2   25	5NA 246 E-1ST0TS08	10   23
5LZ 905 111202	15   6	5ME 221 7-1L3	9   6	5MM 124 6-7TJ	2   25	5NA 246 E-1ST0TW08	10   23
5LZ 905 111CF	15   6	5ME 221 7-3L2	9   6	5MS 11B 7-1P	3   6	5NA 247 2-1AE0AS08	10   7
5LZ 905 121	15   6	5ME 221 7-3L3	9   6	5MS 11B 7-1R	3   6	5NA 247 2-1AE0AW08	10   7
5LZ 905 121202	15   6	5ME 222 2-1L2	9   6	5MS 11B 7-2P	3   6	5NA 247 2-1AE0BS08	10   9
5LZ 905 121CF	15   6	5ME 222 2-1L3	9   6	5MS 11B 7-2R	3   6	5NA 247 2-1AE0BW08	10   9
5LZ 905 122	15   6	5ME 222 2-3L2	9   6	5MS 11B 7-2Y	3   6	5NA 247 2-1AE0HS08	10   9
5LZ 905 122202	15   6	5ME 222 2-3L3	9   6	5MS 426 6-4UL0D	1   10	5NA 247 2-1AE0HW08	10   9
5LZ 905 122CF	15   6	5ME 222 7-ZL2	9   6	5MS 426 7-2UK0	1   11	5NA 247 2-1AE0MS08	10   7
5LZ 905 124	15   6	5ME 222 7-ZL3	9   6	5MS 426 7-4UL0	1   10	5NA 247 2-1AE0MW08	10   7
5LZ 905 124202	15   6	5ME 231 7-1L2	9   6	5MS 426 7-7VK0	1   11	5NA 247 2-1AE0SS08	10   9
5LZ 905 124CF	15   6	5ME 231 7-1L3	9   6	5MS 426 7-9VL0	1   10	5NA 247 2-1AE0SW08	10   9
5LZ 905 125	15   6	5ME 231 7-3L2	9   6	5MS 436 7-2UL0	4   12	5NA 247 2-1AE0TS08	10   7
5LZ 905 125202	15   6	5ME 231 7-3L3	9   6	5MS 436 7-7VL0	4   12	5NA 247 2-1AE0TW08	10   7
5LZ 905 125CF	15   6	5ME 232 2-1L2	9   6	5MS 900 1-1	3   14	5NA 247 2-1CE0AS08	10   7
5LZ 905 126	15   6	5ME 232 2-1L3	9   6	5NA 140 0-0XS2	10   34	5NA 247 2-1CE0AW08	10   7
5LZ 905 126202	15   6	5ME 232 2-3L2	9   6	5NA 140 0-0XS2	10   35	5NA 247 2-1CE0BS08	10   9
5LZ 905 126CF	15   6	5ME 232 2-3L3	9   6	5NA 140 0-0XS21	10   34	5NA 247 2-1CE0BW08	10   9
5LZ 905 150	15   6	5ME 232 7-ZL2	9   6	5NA 140 0-0XS3	10   34	5NA 247 2-1CE0HS08	10   9
5LZ 905 150CF	15   6	5ME 232 7-ZL3	9   6	5NA 140 0-0XS3	10   35	5NA 247 2-1CE0HW08	10   9
5LZ 905 170	15   6	5ME 311 7-1L	9   5	5NA 140 0-0XS31	10   34	5NA 247 2-1CE0MS08	10   7
5LZ 905 170202	15   6	5ME 311 7-3L	9   5	5NA 140 0-0XS31	10   35	5NA 247 2-1CE0MW08	10   7
5LZ 905 170CF	15   6	5ME 312 2-1L	9   5	5NA 140 0-0XS4	10   34	5NA 247 2-1CE0SS08	10   9
5LZ 905 180	15   6	5ME 312 2-3L	9   5	5NA 140 0-0XS4	10   35	5NA 247 2-1CE0SW08	10   9
5LZ 905 180CF	15   6	5ME 312 7-ZL	9   5	5NA 140 0-0XS41	10   34	5NA 247 2-1CE0TS08	10   7
5LZ 905 200D	15   6	5ME 341 7-1L	9   5	5NA 140 0-0XS41	10   35	5NA 247 2-1CE0TW08	10   7
5LZ 905 200S	15   6	5ME 341 7-3L	9   5	5NA 140 0-0XS5	10   34	5NA 247 7-2KA0HW08	10   9
5LZ 905 203D	15   6	5ME 342 2-1L	9   5	5NA 140 0-0XS5	10   35	5NA 247 E-1MT0AS08	10   7
5LZ 905 203S	15   6	5ME 342 2-3L	9   5	5NA 152 2-1AA11A08	10   5	5NA 247 E-1MT0AW08	10   7
5LZ 905 302	15   7	5ME 342 7-ZL	9   5	5NA 152 2-1CA11A08	10   5	5NA 247 E-1MT0BS08	10   9
5LZ 905 303	15   7	5ME 441 2-1S	9   4	5NA 152 E-1LA11A08	10   5	5NA 247 E-1MT0BW08	10   9
5LZ 905 312	15   7	5ME 441 2-3S	9   4	5NA 152 E-1MA11A08	10   5	5NA 247 E-1MT0HS08	10   9
5LZ 905 312DAW	15   7	5ME 442 2-1S	9   4	5NA 156 2-1CA108	10   27	5NA 247 E-1MT0MS08	10   7
5LZ 905 402	15   7	5ME 442 2-3S	9   4	5NA 156 2-1CL108	10   27	5NA 247 E-1MT0MW08	10   7
5LZ 905 410	15   7	5ME 442 2-ZS	9   4	5NA 156 E-1MA108	10   27	5NA 247 E-1MT0SS08	10   9
5LZ 905 440	15   7	5ME 900 1	9   8	5NA 156 E-1MF108	10   27	5NA 247 E-1MT0SW08	10   9
5LZ 905 444	15   7	5ME 900 2	9   8	5NA 156 E-1ML108	10   27	5NA 247 E-1MT0TS08	10   7
5LZ 905 452	15   7	5ME 901 1	9   8	5NA 157 2-1AA108	10   27	5NA 247 E-1MT0TW08	10   7
5LZ 905 455	15   7	5ME 901 3	9   8	5NA 157 E-1 MF108	10   27	5NA 247 E-1MT1HW08	10   9
5LZ 905 472	15   7	5ME 911 1	9   8	5NA 157 E-1MA108	10   27	5NA 261 2-1 CS36	10   33
5LZ 905 490	15   7	5ME 911 2	9   8	5NA 181 0-0XA08	10   9	5NA 261 2-1AS36	10   33
5LZ 905 494	15   7	5ME 911 3	9   8	5NA 181 0-0XA08	10   25	5NA 261 E-1MS36	10   33
5LZ 905 502	15   7	5ME 921 1	9   8	5NA 246 E-1NTOAS08	10   23	5NA 261 E-1NS36	10   33
5LZ 905 503	15   7	5ME 921 2	9   8	5NA 246 E-1NTOAW08	10   23	5NA 263 2-1AA16	10   32
5LZ 906 101	15   8	5ME 931 1	9   8	5NA 246 E-1NTOBS08	10   25	5NA 263 2-1CA16	10   32
5LZ 906 102	15   8	5ME 931 2	9   8	5NA 246 E-1NTOBW08	10   25	5NA 263 E-1MA16	10   32
5LZ 906 103	15   8	5ME 931 3	9   8	5NA 246 E-1NTOHS08	10   25	5NA 264 2-1AF16	10   31
5LZ 906 104	15   7	5ME 991 1	9   6	5NA 246 E-1NTOHW08	10   25	5NA 264 2-1AS16	10   31
5LZ 906 110	15   8	5ME 991 1	9   8	5NA 246 E-1NTOMS08	10   23	5NA 264 E-1MF16	10   31
5LZ 906 110S	15   8	5ME 991 3	9   6	5NA 246 E-1NTOMW08	10   23	5NA 264 E-1MS16	10   31
5LZ 906 112	15   7	5ME 991 3	9   8	5NA 246 E-1NTOSS08	10   25	5NA 265 2-1AA0A106	10   30
5LZ 906 201	15   7	5ME 991 4	9   6	5NA 246 E-1NTO5W08	10   25	5NA 265 2-1AA0M106	10   30
5LZ 906 202	15   7	5ME 992 1	9   8	5NA 246 E-1NTO7S08	10   23	5NA 265 2-1CA0A106	10   30
5LZ 906 203	15   8	5ME 992 1	9   5	5NA 246 E-1NTO7W08	10   23	5NA 265 2-1CA0M106	10   30
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5LZ 908 002	15   4	5ME 992 3	9   5	5NA 246 E-1PT0AW08	10   23	5NA 265 E-1MA0M106	10   30
5LZ 908 003	15   4	5ME 992 3	9   8	5NA 246 E-1PT0BS08	10   25	5NA 266 E-1MA0A108	10   15
5LZ 908 101	15   4	5ME 992 4	9   5	5NA 246 E-1PT0BW08	10   25	5NA 266 E-1MS0A108	10   15
5LZ 908 103	15   4	5ME 992 4	9   8	5NA 246 E-1PT0HS08	10   25	5NA 266 E-1PA0A108	10   15
5LZ 908 201	15   4	5ME 992 5	9   5	5NA 246 E-1PT0HW08	10   25	5NA 266 E-1PS0A108	10   15
5LZ 908 202	15   4	5ME 992 5	9   8	5NA 246 E-1PT0MS08	10   23	5NA 267 E-1MA0A108	10   15
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5NA 267 E-1PS0A108	10   15	5NA 520 0-5X51	10   34	5NA 550 E-15R1	12   8	5NA 757 0-1SS2208H	13   4
5NA 272 E-1MT0508	10   28	5NA 520 0-5X51	10   35	5NA 551 0-0XM1	12   7	5NA 757 7-1NS0208	13   4
5NA 272 E-1NT0508	10   28	5NA 523 2-1AF18	10   20	5NA 551 0-0XM2	12   7	5NA 757 7-1NS2208	13   4
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5NA 272 E-1ST0508	10   28	5NA 523 2-1AS38	10   20	5NA 551 0-0XM4	12   7	5NA 757 E-1NS1208	13   4
5NA 287 2-1AE108	11   6	5NA 523 2-1CF18	10   20	5NA 551 2-1AE01	12   6	5NA 757 E-1NS2208	13   4
5NA 287 E-1ME108	11   6	5NA 523 2-1CS28	10   20	5NA 551 2-1AE02	12   6	5NA 757 E-1PS0208	13   4
5NA 291 E-1MA08	11   7	5NA 523 2-1CS38	10   20	5NA 551 2-1CE02	12   6	5NA 757 E-1PS1208	13   4
5NA 291 E-1MS08	11   7	5NA 523 E-1MF18	10   20	5NA 551 E-1AE11	12   6	5NA 757 E-1PS2208	13   4
5NA 314 E-1MA08	10   16	5NA 523 E-1MS28	10   20	5NA 551 E-1AE12	12   6	5NA 758 0-0XB	13   7
5NA 314 E-1MS08	10   16	5NA 523 E-1MS38	10   20	5NA 551 E-1CE12	12   6	5NA 758 0-0XD	13   16
5NA 314 E-1PA08	10   16	5NA 523 E-1NF18	10   20	5NA 551 E-1MT01	12   6	5NA 758 0-0XL	13   7
5NA 314 E-1PS08	10   16	5NA 523 E-1NS28	10   20	5NA 558 0-0XB	12   5	5NA 758 0-1VB0208H	13   5
5NA 316 E-1MA08	10   15	5NA 523 E-1NS38	10   20	5NA 558 2-1CE0C236	12   4	5NA 758 0-1VS0208H	13   5
5NA 316 E-1MS08	10   15	5NA 525 2-1AF18	10   19	5NA 558 E-1CE1C236	12   4	5NA 758 E-1RB0208	13   5
5NA 316 E-1PA08	10   15	5NA 525 2-1AS28	10   19	5NA 558 E-1MR0C136	12   4	5NA 758 E-1RS0208	13   5
5NA 316 E-1PS08	10   15	5NA 525 2-1CF18	10   19	5NA 558 E-1MR0C436	12   4	5NA 758 E-1RS1208	13   5
5NA 318 E-1MA08	10   11	5NA 525 2-1CS28	10   19	5NA 558 E-1MTOC136	12   4	5NA 758 E-1SB0208	13   5
5NA 318 E-1MAL08	10   11	5NA 525 E-1MF18	10   19	5NA 558 E-1MTOC236	12   4	5NA 758 E-1SS0208	13   5
5NA 318 E-1MP08	10   11	5NA 525 E-1MS28	10   19	5NA 558 E-1MT0C436	12   4	5NA 758 E-1SS1208	13   5
5NA 318 E-1MPL08	10   11	5NA 525 E-1NF18	10   19	5NA 558 E-1MT1C136	12   4	5NA 758 E-1TB0208	13   5
5NA 318 E-1MS08	10   11	5NA 525 E-1NS28	10   19	5NA 558 E-1MT1C236	12   4	5NA 758 E-1TS0208	13   5
5NA 318 E-1MSL08	10   11	5NA 527 2-1AF48	10   19	5NA 558 E-1MT1C436	12   4	5NA 758 E-1TS1208	13   5
5NA 318 E-1PA08	10   11	5NA 527 2-1AS18	10   17	5NA 558 E-1NTOC136	12   4	5NA 759 0-1VB02	13   6
5NA 318 E-1PAL08	10   11	5NA 527 2-1AS28	10   17	5NA 558 E-1NTOC236	12   4	5NA 759 0-1VS01	13   6
5NA 318 E-1PP08	10   11	5NA 527 2-1AS38	10   19	5NA 558 E-1NTOC436	12   4	5NA 759 0-1VS02	13   6
5NA 318 E-1PPL08	10   11	5NA 527 2-1AS58	10   17	5NA 558 E-1NT1C136	12   4	5NA 759 0-1WB02	13   6
5NA 318 E-1PS08	10   11	5NA 527 2-1AS68	10   17	5NA 558 E-1NT1C236	12   4	5NA 759 0-1WS02	13   6
5NA 318 E-1PSL08	10   11	5NA 527 2-1CF48	10   19	5NA 558 E-1NT1C436	12   4	5NA 759 2-1VK0	13   17
5NA 320 E-1MA08	10   11	5NA 527 2-1CS18	10   17	5NA 558 E-1PT0C136	12   4	5NA 759 2-1VK0	14   8
5NA 320 E-1MAL08	10   11	5NA 527 2-1CS28	10   17	5NA 558 E-1PT0C236	12   4	5NA 759 2-1VK0	14   9
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5NA 320 E-1MSL08	10   11	5NA 527 E-1MF48	10   19	5NA 559 0-0XB	12   5	5NA 759 2-1VK11	13   17
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5NA 320 E-1PSL08	10   11	5NA 527 E-1NF48	10   19	5NA 630 E-6VR	12   9	5NA 759 2-1VR10	14   8
5NA 322 E-1MA08	10   13	5NA 527 E-1NS18	10   17	5NA 726 0-0XB	13   16	5NA 759 2-1VR10	14   9
5NA 322 E-1MS08	10   13	5NA 527 E-1NS28	10   17	5NA 726 0-0XH	13   16	5NA 759 2-1VR11	8   16
5NA 322 E-1PA08	10   13	5NA 527 E-1NS38	10   19	5NA 726 0-0XJ	13   16	5NA 759 2-1VR11	13   17
5NA 322 E-1PS08	10   13	5NA 527 E-1NS58	10   17	5NA 726 0-1VB01	14   9	5NA 900 1-1LB1 00R	11   4
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5NA 343 E-1UD0	12   11	5NA 529 2-1AR5	11   9	5NA 751 E-1NS0208	13   8	5NA 950 1-1NS1 00	11   4
5NA 343 E-1UR	12   11	5NA 529 2-1AS2 8	11   9	5NA 751 E-1PS0208	13   8	5NA 950 1-1PA1 00	11   4
5NA 442 0-1XS	10   29	5NA 529 2-1AS2 8D	11   9	5NA 752 0-1VS0208H	13   9	5NA 950 1-1PS1 00	11   4
5NA 442 E-1HE07	10   29	5NA 529 2-1AS5	11   9	5NA 752 E-1RB0208	13   9	5NA72601VS11	13   15
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5NA 484 E-1MK1 08W	10   21	5NA 529 2-1MR5	11   9	5NA 753 0-1VB02	13   10	5NG 156 0-2QM1	5   11
5NA 520 0-0XS	10   34	5NA 529 2-1MS2 8D	11   9	5NA 753 0-1VS01	13   10	5NG 156 0-3QM1	5   11
5NA 520 0-0XS	10   35	5NA 529 2-1MS5	11   9	5NA 753 0-1VS02	13   10	5NG 156 0-5KM1	5   11
5NA 520 0-0XS	10   35	5NA 529 E-1AR2 8	11   9	5NA 753 0-1WB02	13   10	5NG 160 1-6L	5   13
5NA 520 0-2XS	10   34	5NA 529 E-1CR2 8	11   9	5NA 753 0-1WS02	13   10	5NG 160 1-6L	5   16
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