

CRANE MASTER SERIES UL

LED LIGHTING FOR HARSH AREAS
FLOOD



Reliable. Durable. Efficient.
40,500 lumen models

RED SKY
SERIOUSLY SAFE LIGHTS™

ABOUT RED SKY LIGHTING

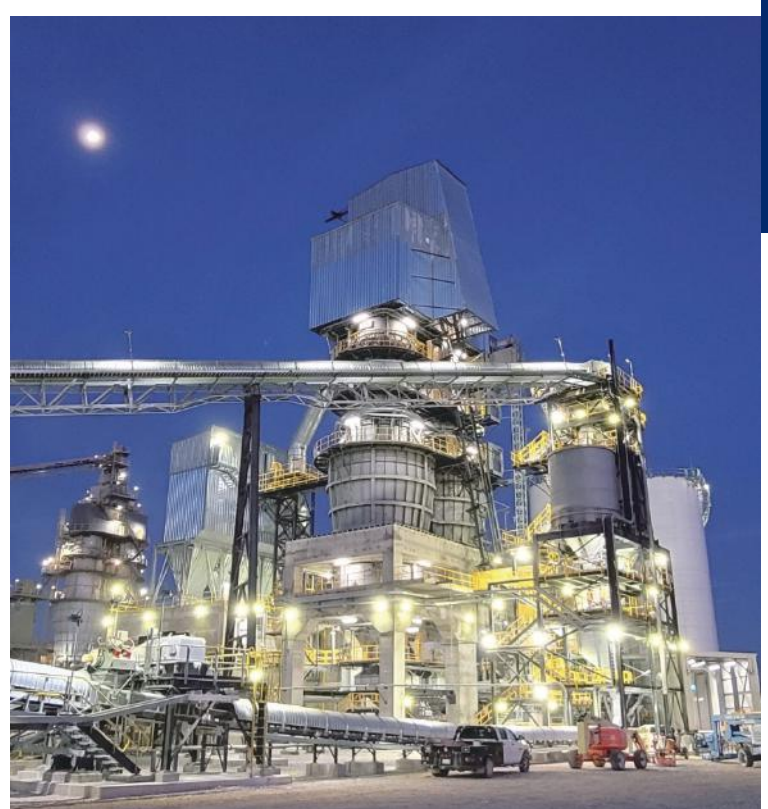
PIONEERING INDUSTRIAL ILLUMINATION FOR HARSH & HAZARDOUS CONDITIONS

A leading manufacturer of premium LED lights for demanding work conditions

Headquartered in California, products assembled in the USA

Servicing global clients across 4 continents in metal processing, oil & gas, marine, manufacturing

Renowned for quality, dependability, client care and uncompromising safety standards



WHY CHOOSE RED SKY

SERIOUSLY SAFE LIGHTS

- Rigorously tested in our professional labs
- Surpassing industry certifications and safety protocols
- Crafted with highest grade components for maximum durability

TOP-NOTCH SERVICES

- Team of experts for seamless support
- Energy audit services, lighting simulation services
- Hassle-free return policy and management

FAST DELIVERY

- Majority of orders delivered within 14 days
- Same day shipping for products in stock
- Real-time order tracking for full transparency

SUSTAINABLE SOLUTIONS

- High luminous efficacy LEDs for energy savings
- Conscious product design
- Recyclable materials for products and packaging



FEATURES



5 Choices of Light Distributions

30° / 60° / 90° / 120° / 30*120°
available for different applications from narrow to
assymetric light distribution

Easy and Through Wiring

Built-in wiring compartment with two cable entries and
WAGO 221 lever connectors for easy wiring (1-4mm²)

The damper bracket is rotatable and ensures light is constantly targeted where required

RATINGS

UL 1598 Wet Locations
UL 1598A Marine Outside Type (Salt Water)
IP67
IK08 (Clear Glass) / IK10 (Clear PC)

CERTIFICATIONS

UL1598
UL1598A
CSA C22.2 NO. 250.0
FCC 47 CFR Part 15, Subpart B

TECHNICAL PARAMETERS

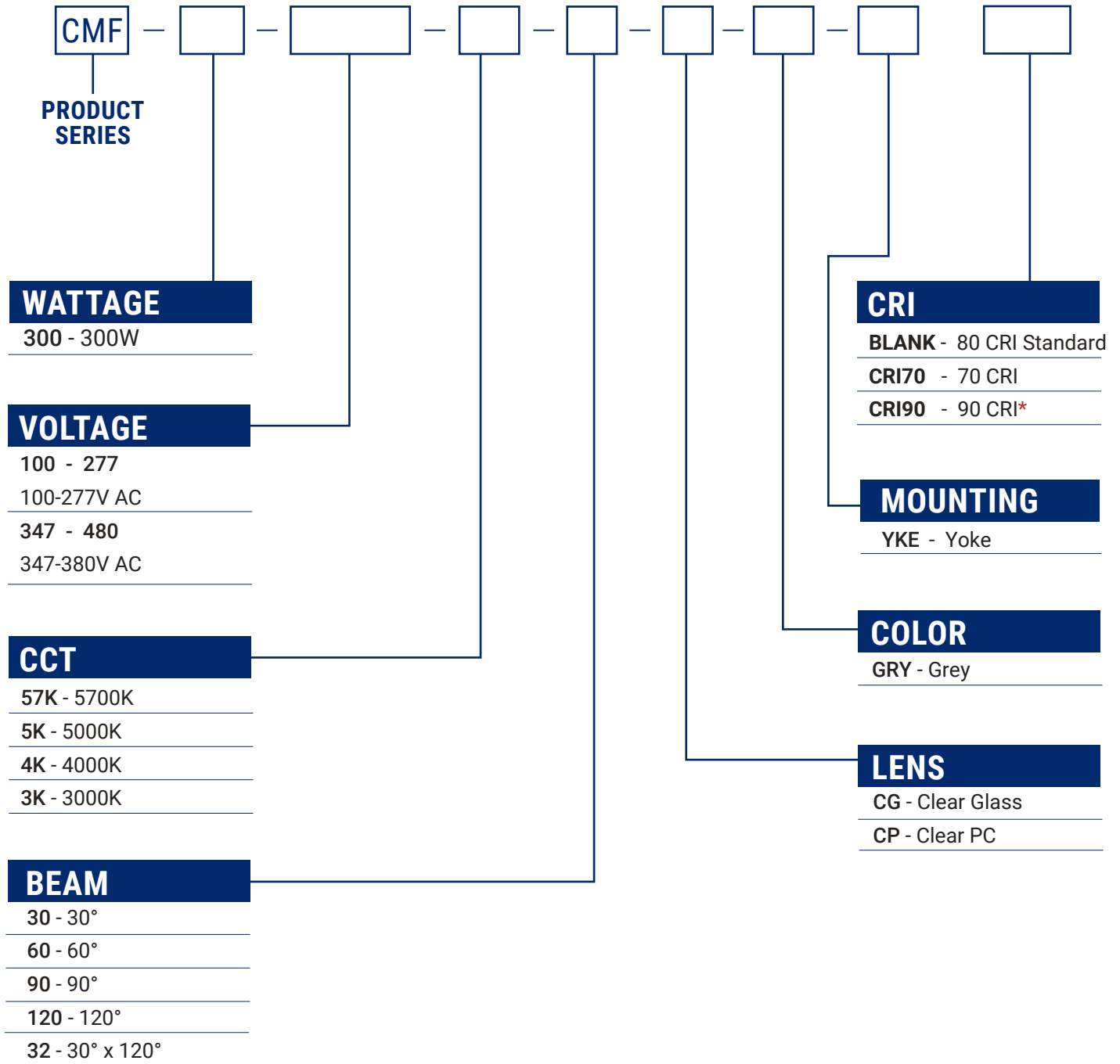
Specification	CMF-300
Electrical Parameters	
Power	300W
Voltage/Frequency	100-277V AC, 347-480V AC 50/60Hz
Input Current(Amps)	100VAC: 3.0174, 347VAC: 0.8695
Power Factor	>0.90
THD	<20%
L70	140,000 Hours@50°C
Control Mode	ON-OFF
Surge Protection	NA
Supply wire Temperature°C(°F)	105°C (221°F)
Warranty	Standard: 5 Years
Optical Parameters	
Lumen Output*	40,501Lm
Lumen Efficacy*	136Lm/W @5000K
Available Beam Angle	30°/60°/90°/30*120°(PC)/120°(Glass)
Correlated Color Temperature (CCT)	3000K/4000K/5000K/5700K
Color Rendering Index (CRI)	80 CRI
Mechanical Parameters	
Finish	Thermoset Powdercoat
Hardware	Stainless steel 316
Lens Material	Clear Glass or Clear PC
Mounting Options	Angled Yoke
Cable Entry	12-24AWG min: 0.14mm ² max: 4mm ²
Connection	2 x M20
Product Weight	30.9lbs/14kg
Product Dimensions(LxWxH)	20.78x11.46x6.55 in (527.7x291.2x166.3 mm)
Box Dimensions(LxWxH)	23.07x15.2x9.37 in (586x386x238mm)
Environmental Parameters	
Ambient Operating Temperature	-40°F ~ +131°F (-40°C ~+ 55°C)
Vibration Resistance	5G
Corrosion Resistance	500 hours
EPA wind rating (FT2)	1.285

* Value calculated based on 5000K,80 CRI and Clear glass ,varies to different spec.

70 CRI & 90 CRI optional, DLC available with 70 CRI only.

ORDERING INFORMATION

EXAMPLE: CMF-300-100-277-57K-90-CG-GRY-YKE BLANK



* CRI70 - 70 CRI, CRI90 - 90 CRI, CRI 90 option – expect longer lead time

MOUNTING ACCESSORIES



Yoke
(SUS304)



Yoke with
Damper Bracket



SC05

Pard Number	Description	MPN Code
DPY01	Crane Damper Bracket, SUS304, Fixed with M10 Bolts	309050274
SFCB01	Safety Cable Kit, SUS304	106060018

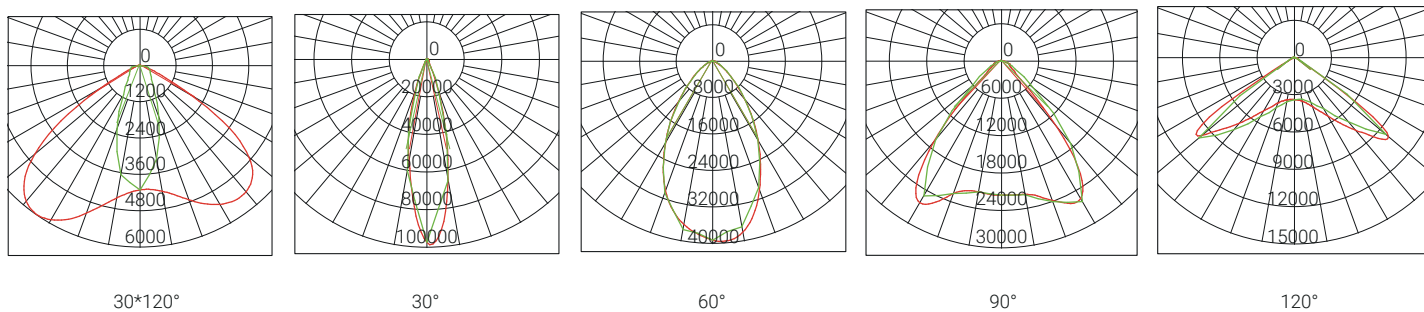
LUMEN TABLE

Part Number	Wattage (W)	CCT	CRI	Beam	Lens	Lumen Output (Lm)	Efficiency (Lm/W)
Voltage 120-277VAC 80 CRI • STANDARD							
CMF-300-100-277-5K-120-CG-GRY-YKE	300	5000K	80	120°	Clear Glass	40,501	136
CMF-300-100-277-5K-30-CP-GRY-YKE	300	5000K	80	30°	Clear PC	36,148	131
CMF-300-100-277-5K-60-CP-GRY-YKE	300	5000K	80	60°	Clear PC	37,885	137
CMF-300-100-277-5K-90-CP-GRY-YKE	300	5000K	80	90°	Clear PC	38,904	141
CMF-300-100-277-5K-32-CP-GRY-YKE	300	5000K	80	30°x120°	Clear PC	37,342	135
Voltage 120-277VAC 70 CRI							
CMF-300-100-277-5K-120-CG-GRY-YKE CRI70	300	5000K	70	120°	Clear Glass	42,211	154
CMF-300-100-277-5K-30-CP-GRY-YKE CRI70	300	5000K	70	30°	Clear PC	37,674	137
CMF-300-100-277-5K-60-CP-GRY-YKE CRI70	300	5000K	70	60°	Clear PC	39,485	143
CMF-300-100-277-5K-90-CP-GRY-YKE CRI70	300	5000K	70	90°	Clear PC	40,547	147
CMF-300-100-277-5K-32-CP-GRY-YKE CRI70	300	5000K	70	30°x120°	Clear PC	38,919	141
Voltage 120-277VAC 90 CRI							
CMF-300-100-277-5K-120-CG-GRY-YKE CRI90	300	5000K	90	120°	Clear Glass	33,473	122
CMF-300-100-277-5K-30-CP-GRY-YKE CRI90	300	5000K	90	30°	Clear PC	29,875	109
CMF-300-100-277-5K-60-CP-GRY-YKE CRI90	300	5000K	90	60°	Clear PC	31,312	113
CMF-300-100-277-5K-90-CP-GRY-YKE CRI90	300	5000K	90	90°	Clear PC	32,154	117
CMF-300-100-277-5K-32-CP-GRY-YKE CRI90	300	5000K	90	30°x120°	Clear PC	30,863	112

347–480Vac models deliver the same lumen output as the 120–277Vac models.

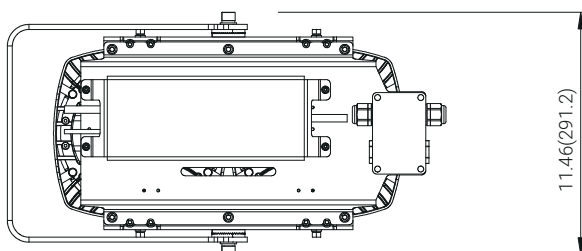
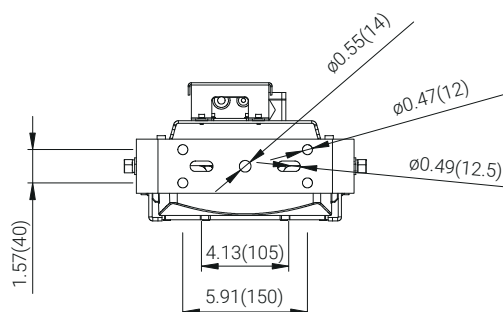
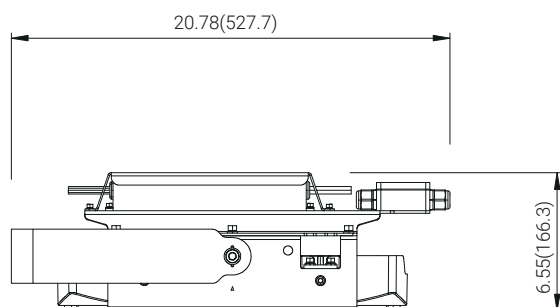
This table only lists part of the model lumen parameters, if you need other model parameters, please contact our sales

Note: LXX# = nominal lumens. Verify lumen package before ordering.



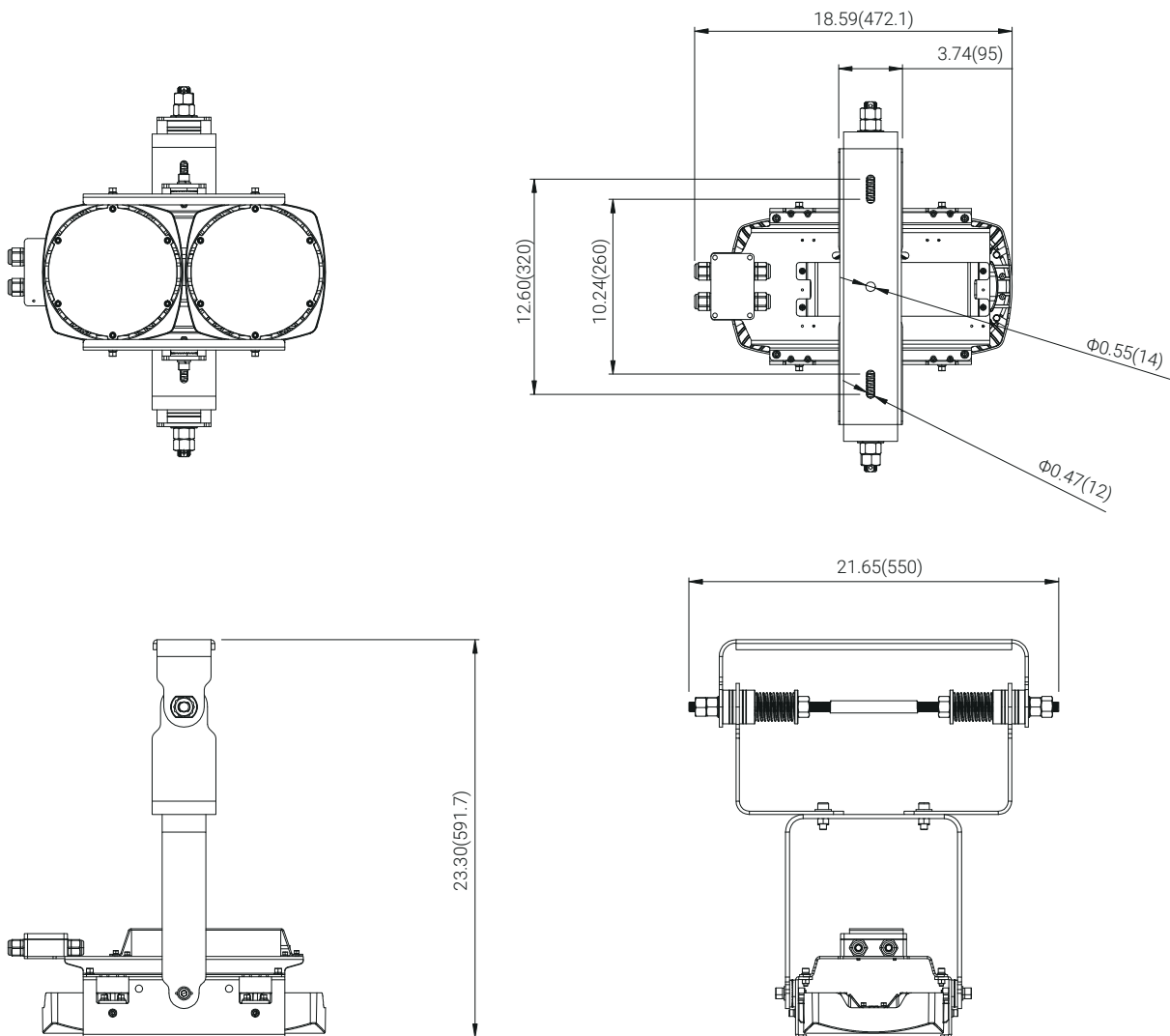
DIMENSIONS

unit: in(mm)



YOKE

unit: in(mm)



YOKE with Damper Bracket

HAZARDOUS LOCATION LIGHTING BASICS

Atmosphere Groups

Substance	Hazard Class	Division Groups	Zone Groups
Acetylene	Class I Flammable Gases	Group A	IIC
Hydrogen		Group B	IIC
Ethylene		Group C	IIB
Propane		Group D	IIA
Methane		Group D	IIA ²
Combustible Metal Dusts	Class II Combustible Dusts	Group E ¹	IIIC ³
Combustible Carbonaceous Dust		Group F	IIIB ³
Combustible Dusts not in Group E or F (Flour, Grain, Wood, Plastics, Chemicals)		Group G	IIIB ³
Combustible Fibers and Flyings	Class III Fibers and Flyings	Not Applicable	IIIA ³

Note 1: Group E is applicable to Class II, Division 1 only.
 Note 2: Methane is a Group IIA Gas for non-mining applications.
 Note 3: Group IIIA, IIIB and IIIC have not been adopted by the Canadian Electrical Code.

Temperature Classification

Max. Surface Temperatures	NEC® 500 CEC®	NEC® 500/IEC-Group II
450(842)	T1	T1
300(572)	T2	
280(536)	T2A	
260(500)	T2B	T2
230(446)	T2C	
215(419)	T2D	
200(392)	T3	T3
180(256)	T3A	
165(329)	T3B	
160(320)	T3C	
135(275)	T4	T4
120(248)	T4A	
100(212)	T5	T5
85(185)	T6	T6

Classification of Divisions and Zones

Hazard Level	Division Scheme	Zone Scheme	Definitions
Continuous Hazard	Division 1	Zone 0 / Zone 20	A place in which an explosive atmosphere is continually present
Intermittent Hazard		Zone 1 / Zone 21	A place in which an explosive atmosphere is likely to occur in normal operation
Hazard Under Abnormal Conditions	Division 2	Zone 2 / Zone 22	A place in which an explosive atmosphere is not likely to occur in normal operation, but may occur for short periods

IP Codes

1st No.	Solid Objects
0	No protection
1	Objects greater than 50mm
2	Objects greater than 12.5mm
3	Objects greater than 2.5mm
4	Objects greater than 1mm
5	Dust protected
6	Dust proof
2nd No.	Liquids
0	No protection
1	Vertically dripping
2	Dripping up to 15°
3	Limited spraying
4	Splashing from all directions
5	Hosing jets from all directions
6	Strong hosing jets from all directions
7	Temporary immersion
8	Continuous immersion
9	Steam-jet cleaning

IK Ratings

IK Code	Level of Protection Achieved
IK00	Not protected
IK01	Protected against 0.14 joules impact
IK02	Protected against 0.2 joules impact
IK03	Protected against 0.35 joules impact
IK04	Protected against 0.5 joules impact
IK05	Protected against 0.7 joules impact
IK06	Protected against 1 joules impact
IK07	Protected against 2 joules impact
IK08	Protected against 5 joules impact
IK09	Protected against 10 joules impact
IK10	Protected against 20 joules impact



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Disclaimer

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