



Industrial Lighting

Explosion-Proof / High-Bay / High-Mast / Emergency - Technical Datasheet

Engineering-grade luminaires for hazardous, high-heat and high-clearance environments - certified enclosures, up to 150 lm/W and emergency backup options.

Source: MARCO 2026 LED Industrial Light Catalog

1. Product Lines

Six focused categories, each engineered for a distinct application and buyer.

Line	Key spec	Application
Explosion-Proof Lighting	Ex db IIC T6 Gb / Ex tb IIIC T80C Db, IP66/IK08	Gas / dust hazardous zones (Zone 1/2, 21/22)
High-Bay Lighting	100-600 W, up to 150 lm/W, IP65/IP69K	Warehouses, plants, 6-15 m ceilings
High-Mast Lighting	Modular rings, 20-40 m poles	Ports, yards, stadiums, terminals
Emergency Lighting	Battery-backup option on high-bay families	Escape routes & backup on mains failure

2. Electrical - High-Bay / Emergency Families

The ELEGANT high-bay families (UFO HB08, Linear HB11) - including the Emergency battery-backup variant - share this electrical envelope.

Parameter	Specification
Input voltage	AC100-277 V, 50/60 Hz
Lumen efficacy	150 / 170 / 190 lm/W ($\pm 5\%$)
LED brand	LUMILEDS
Driver brand	PHILIPS / SOSEN
CCT	3000K / 4000K / 5000K / 5700K / 6500K - 3CCT adjustable
CRI	Ra>80 (70, 90 optional)
Power factor	0.95
Beam angle	60° / 90° / 120° (HB08) - 60° / 90° / 110° (HB11)

3. Mechanical & Environment

Parameter	Specification
Ingress protection	IP65 / IP69K (Explosion-proof families: IP66)
Impact rating	IK08 (HB11 IK10; Explosion-proof: IK08)
Life span	50,000 Hrs
Working temperature	-35 °C ~ +50 °C (Explosion-proof EX02 up to +55 °C)
Warranty	5 Years
Certification	UL / CCC / CB / CE / SAA / FCC / RoHS
Explosion-proof Ex rating	Ex db IIC T6 Gb / Ex tb IIIC T80C Db (gas IIB/IIC & dust IIIC)

4. Emergency Lighting - Battery Backup

The ELEGANT high-bay families are offered with an integrated Emergency battery-backup module that maintains illumination when the mains fails - for escape routes, plant aisles and car parks. Runtime and battery specification are quoted per project.

Family	Models	Power range
UFO High Bay - HB08	ISL-UFO-H100W / H150W / H200W / H240W	100-240 W (60-240 W adjustable)
Linear High Bay - HB11	ISL-HB11-A-100/150/200/240/300W	100-300 W (60-300 W adjustable)

Emergency feature	Specification
Envelope	Same IP65 / IK08 rugged housing as the standard family
Function	Integrated battery-backup - stays lit on mains failure
Input	AC100-277 V, 50/60 Hz (shared envelope)
Options	Runtime & battery pack specified per project

5. Explosion-Proof Families (ROBUS EX01-C / EX02-A / EX02-B)

Certified Ex db IIC T6 Gb / Ex tb IIIC T80C Db for gas (Zone 1/2) and dust (Zone 21/22) hazardous areas - oil & gas, petrochemical, mining, shipbuilding, ports and metallurgy. Three flood families share the specification below.

Family	Models	Power range
EX01-C - Compact Flood	ISL-EX01-C-50/75/100/120W	50-120 W (120 deg beam)
EX02-A - Flood (rectangular)	ISL-EX02-A-50/75/100/150/200/240/300/400W	50-400 W (30-120 deg)
EX02-B - Flood (round)	ISL-EX02-B-50/75/100/150/200/240/300/400W	50-400 W (30-120 deg)

Parameter	Specification
Ex rating	Ex db IIC T6 Gb / Ex tb IIIC T80C Db (gas IIB/IIC & dust IIIC)
Input voltage	EX01-C: AC100-277V - EX02: AC100-277 / 120-347 / 277-480V, 50/60Hz
Lumen efficacy	140 lm/W (±5%) - LUMILEDS - SOSEN driver
CCT / CRI	3000K/4000K/5000K/5700K/6500K - Ra>80 (70,90 opt)
Beam angle	EX01-C: 120° - EX02: 30°/45°/60°/90°/120°
IP / IK	IP66 / IK08 - 50,000 Hrs - 5 Years
Construction	Die-cast aluminium, zinc-rich powder coat, tempered-glass / PC lens, integrated driver junction box

6. Key Features & Contact

Multiple light distributions, 3CCT & power-adjustable solutions, and accessory options (Daylight sensor, Zigbee, DALI, Microwave, PIR) across the ELEGANT series. OEM / ODM / EPC supply with full compliance documentation.

Contact

Iway - Engineering-grade electrical & lighting OEM/ODM supplier

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Note: Product parameters continue to be optimised; this datasheet is for reference and does not constitute an offer or commitment.