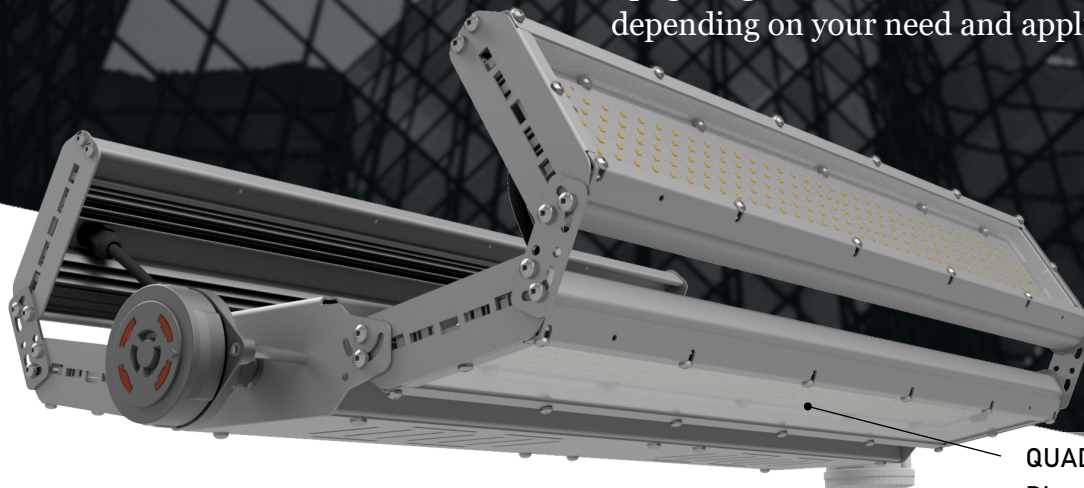# LUMINGEN TECHNOLOGIES

SOLIOS Series
Ultra-versatile High Output Lighting

The luminaire is configurable for downlighting, uplighting, surface illumination, and more— all depending on your need and application.
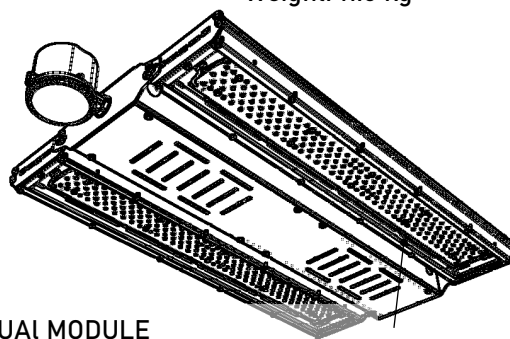
QUAD MODULE
Dimensions: 60 x 62 x 16 cm
Weight: 11.5 kg

SOL-G2

Features end-use flexibility for down-lighting and up-lighting applications or everything in between

The all new IP66 Solios Series is the most reliable high efficacy luminaire we believe to have ever been created. Top quality components & materials, along with various add-ons & a unique modular tilt feature, provides for a highly adaptable luminaire suitable for every high bay application; environments with higher than normal ambient temperatures included.

The luminaire is configurable for downlighting, up lighting, surface illumination, and more all depending on your need and application. Backup lighting configurations allow for up to 10 W of battery backup lighting for a guaranteed minimum of 90 minutes!

DUAL MODULE
Dimensions: 60 x 37 x 16 cm
Weight: 6.8 kg

CSA C US | DLC QPL™ LISTED | IP66 WATERPROOF | BChydro

Performance Summary:

Dual Module Light Output:	22,770—28,160 lumens
Quad Module Light Output:	45,540—56,160 lumens
Typical Efficiency:	160–165 lumens/watt
L90 TM-21-11:	>53,000 hrs (>53,000 hrs)
L70 TM-21-11:	>102,000 hrs (>171,350 hrs)
CRI Availability:	80–90
CCT Availability:	2700–6500 K
Voltage Compatibility:	120–277/347/480 Vac
Standard Warranty:	5 years

Configurations:

- ☑ 2-module or 4-module
- ☑ Adjustable Down/Uplighting
- ☑ Battery Backup Lighting
- ☑ Multifunction Motion Sensor
- ☑ Integral Sensor Receptacle
- ☑ Cable Suspension
- ☑ Pendant Suspension
- ☑ Surface Mount
- ☑ Ceiling Mount

Applications:

- ☑ Industrial
- ☑ Commercial
- ☑ Warehouse
- ☑ Sports Facilities/Events
- ☑ Swimming Pools
- ☑ Exhibitions
- ☑ High ceiling indirect ambient
- ☑ Wall-wash lighting

SOL-G2 LED Luminaire Series

SOL-G2-XYYY Specification

Listing: CSA US-Canada Certified for Wet Locations. DLC QPL Listed. BC Hydro e.Catalog Listed.

LED: Industry-leading Cree LEDs for low-to-mid range lighting applications. Engineered for high end-product efficiency, maintaining high output in a compact size.

Available CRI: 80, 90

Colour Temperature (CCT): 2700K, 4000K, 5000K, 6500K

Reported (and Projected) TM-21-11 LED Lumen Maintenance:
L90 (90% light output) > 53,000 hours (Projected >53,000 hrs)
L70 (70% light output) > 102,000 hours (Projected > 171,350 hrs)

Operating Temperature: -40°C to +60°C

Electrical: Input: 120-277/347/480 VAC, 50/60 Hz
Power Factor: >0.90, THD: < 20%
Surge: 2 kV minimum

Lens & Optics: Standard 120° beam angle. High transmission impact-resistant PC lens. Customizable Lens: Clear or Frosted. Prismatic options available.

Construction: IP66-rated construction. Light-weight 6XXX aluminum extrusion and high-strength sheet-metal housing. High grade anodized finish for maximum durability.
Size (excluding all accessories): 60x62x6cm/60x37x6cm
Weight: 7-14 kg (16 –31 lb.)

Configurations: 2-4 modules—configurations can be made to allow for down-lighting & up-lighting in different directions.

Installation: Steel aircraft cable suspension. Other: Ceiling/Surface mounting kit (2-point surface mounting kit), Single-point pendant mounting kit (for mounting to a pendant conduit or a junction box)

Available Feature:
0/1-10V dimming
Multifunction sensor (occupancy + daylight sensing)
Integral sensor receptacle (ANSI C136.41 standard) [B]
10W backup battery
Surge protection (10kA or 20kA max discharge) [A,B]
Impact-protection wire guard
Cut-off Visor for controlled illumination

Warranty: 5 years

Specification Table

Model	Configuration	Overall Size (cm)	Light Output (lm)	Power (W)	Efficiency (lm/W)
SOL-G2-D150	Dual Module	60 x 37 x 6	22,770	138	165
SOL-G2-D200	Dual Module	60 x 37 x 6	28,160	176	160
SOL-G2-Q300	Quad Module	60 x 62 x 6	45,540	276	165
SOL-G2-Q400	Quad Module	60 x 62 x 6	56,160	351	160

Ordering Code (e.g., SOL-G2-D200-277-5K0-80-120-SP-CL-00-M-S1)

LAMP-SERIES CODE	POWER RATING	AC INPUT VOLTAGE	COLOUR TEMPERATURE	CRI	BEAM ANGLE	INSTALL METHOD	DIFFUSER	MODULE ORIENTATION	ACCESSORIES [A,B]
SOL-G2	**D200**	**277**	**5K0**	**80**	**120**	**SP**	**CL**	**00**	**M – S1**
SLD-G2	D150 *(138W)*	277 *(120-277V)*	2K7 *(2700K)*	80	120	SP *(Suspension cable kit)*	CL *(Clear)*	00 *(Standard)*	E *(10W Backup Battery)*
	D200 *(176W)*	347 *(347V)*	4K0 *(4000K)*	90		PD *(Pendant/junction box kit)*	FR *(Frosted/ Diffuse)*	UP *(Uplighting)*	M *(Multifunction Motion Sensor)*
	Q300 *(276W)*	480 *(480W)*	5K0 *(5000K)*			SF *(Surface mount kit)*	PR *(Prismatic Patterned)*	CS *(Custom)*	S1 *(10kA Surge Protection)*
	Q400 *(351W)*		6K5 *(6500K)*						S2 *(20kA Surge Protection)*
									P5 *(ANSI C136.41 Receptacle)*
									V *(Mesh Guard)*
									CV *(Cut-off Visor)*

Footnotes:
[A] Electrical Surge:
All LED fixtures are susceptible to voltage spikes. Surge protection is highly recommended for exterior, industrial, and manufacturing applications.
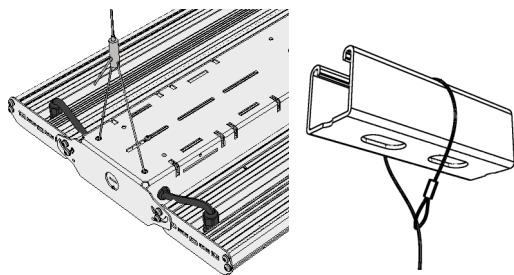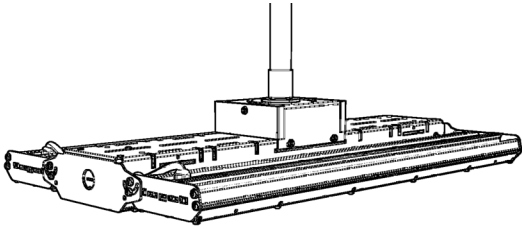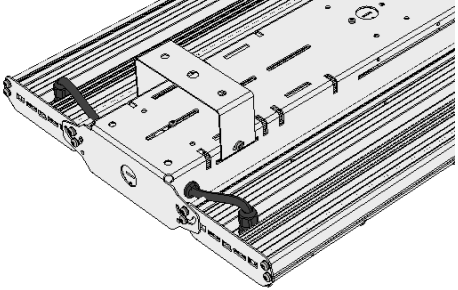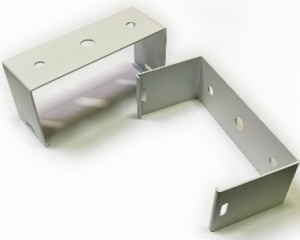[B] Accessories:
For accessories that require the use of ANSI 5-pin receptacles, receptacles shall be provided for their utilization.
"S1"/"C" accessories will be provided with, at minimum, a 5-pin ANSI C136.41 receptacle.
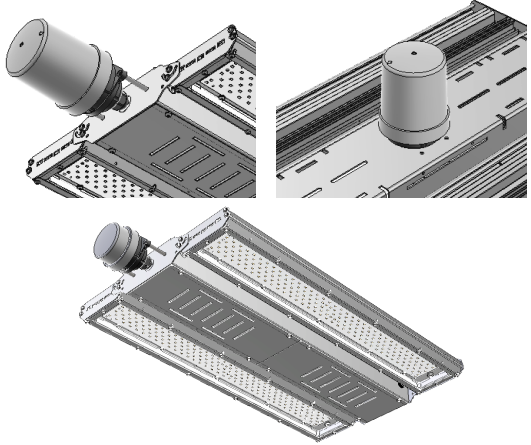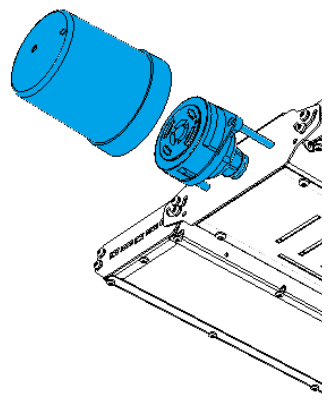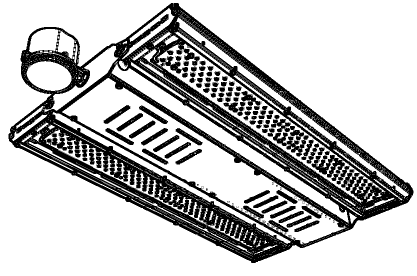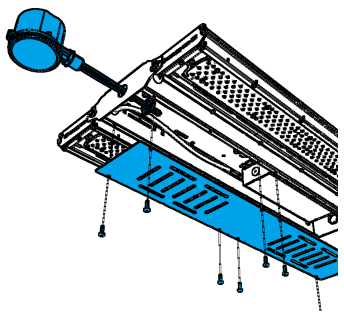
LUMINGEN TECHNOLOGIES
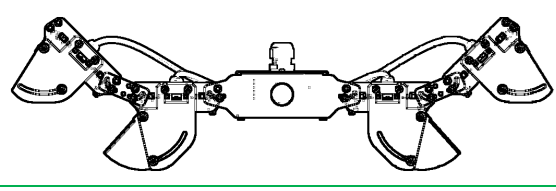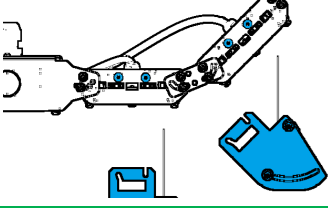
SOL-G2 LED Luminaire Series

Installation

Code	Definition	Notes
SP	**Cable Suspension**	2 sets of stainless-steel Aircraft Cable w/ Steel Paddles. Also comes with Cable Gripper and Cable for looping around ceiling trusses/beams. AC Cord whip can be made available. Side knock-out holes for cable-in or accessory applications.
PD	**Pendant Conduit Kit/ Junction Box Mounting Kit**	Pendant hanger and conduit not provided with bracket. Wire connections may be placed inside bracket box. Direct mounting to ceiling, applicable surfaces, and junction box openings allowed.
SF	**Surface Mounting Kit**	Install into surface/ceiling by screws/bolts. (Ceiling screws/bolts not included) AC Cord whip can be made available. Side knock-out holes for cable-in or accessory applications.

LUMINGEN TECHNOLOGIES

Data subject to change without notice. Access Date: 2023-05-09 11:08

SOL-G2 LED Luminaire Series

Accessories

Code	Definition	Notes
S1 P5	Accessories utilizing ANSI C136.10/C136.41 Receptacles	Configurations with these codes will be supplied with a 5-pin ANSI C136.41 receptacle. Standard accessory mounting is horizontal but vertical options may be provided. When receptacle is not in use, shorting cap must be used to allow for continual operation of the luminaire. Direct wiring only requires AC line, Neutral, and Ground wiring.
M	Multifunctional Sensor Kit	Multifunction Occupancy and Daylight sensing. Customizable for different levels of sensitivities and functions, which include dim-to-off, adjustable stand-by durations, etc. Basic wireless control is also offered using this motion sensor. Please contact Lumingen for more information regarding basic controls. Some assembly is required.
CV	Cut-off Visor Kit	Cut-off Visor for use with more controllability of light distribution under downlighting or tilting applications. Perfect for use in lighting situations that require stricter glare control, but still needing high downlight illumination. Visor shipped separately. Some assembly is required.
V	Mesh Guard	Wire guard protection using spot-welded 3mm-diamter alloy steel wires. Each module will have an individual set of wire guards
E	Battery Backup, 10W Lighting	Luminaire will deliver a minimum 90 minutes of light when battery backup is activated. Typical backup output power is 10W. Luminaire operating temperature range with backup battery kit: -20°C to +40°C
S1 S2	Surge Protection Kit	S1 (external mount) Nominal discharge current: 5 kA. Max discharge current: 10 kA S2 (internal mount): Nominal discharge current: 10 kA. Max discharge current: 20 kA Exterior mounted applications will be installed to receptacles conforming to a 5-pin ANSI C136.41 format. Contact Lumingen for more information.

LUMINGEN TECHNOLOGIES