



Åre is an alpine ski area and the largest mountain sports resort in Sweden. Located at the foot of Areskutan, a mountain 1,420 meters above sea level, it was host to the World Cup Championship in 2007 and named the "World's Top Ski Resort" in 2009 by the British travel magazine Condé Nast Traveller.

Åre is now striving to be selected to hold yet another World Cup Championship. In a bid to improve its prospects and provide a world-class facility for visitors, alpine operator SkiStar took to upgrading and improving Åre's Swedish Alpine National Arena. Of the investments made, the installation of new lighting on the Störtloppet ski slope was a top priority.

Illuminating Sweden's most fierce ski slope

The Störtloppet ski slope is Sweden's most fierce and dangerous. It has a total length of 2,912 feet with a vertical drop of 841 metres. To bring it up to world class standards and meet television broadcast requirements, 350 Mundial HQI-TS 2000W floodlights were specified to illuminate 1,308 feet with a vertical drop of 416 meters.

Producing a light level of 1,000 lux, Mundial is mounted at a height of 15m and can be set in three different lamp positions. It also features a spun circular reflector with baffle for asymmetrical lighting distribution. By minimising glare, light spill and upward light, Mundial effectively prevents obtrusive light and light pollution. This is especially important for preserving the local environment.

Nalle Hanson, Arena Manager at SkiStar Åre says: "With the new lighting, we can now run evening competitions throughout the winter. The last winter women's World Cup competitions were in fact run with the new lighting and both the competitors and the television broadcasting company were very happy with it. The lighting level of 1,000 lux is particularly crucial for managing the broadcasting requirements. Aside from the lighting, SkiStar is also very satisfied with the cooperation with Thorn."

For further information on Mundial C visit www.thornlighting.com/MUNC

Key Facts

- Maximum light level: 1,000 lux
- Lux level can be adjusted according to use of the slope, including public skiing, training and competition
- The Mundial floodlights are mounted at a height of AV1.5m and can be set in three different lamp positions

Products used



Mundial C



eControl From Thorn's 15 ways to save energy, the following are key to minimising energy consumption at Åre's Swedish Alpine National Arena:



Task lighting

Ensuring light is concentrated on the task provides the required high levels of illuminance while using minimal energy through less light loss in ancillary areas.



Zoning of lighting

Careful selection and arrangement of lighting on key sections of the slope maximises lighting impact whilst minimising energy use on lighting in areas of lesser importance.



Waste Light

Precise optical control and luminaire aiming minimises spill light, so no energy is wasted lighting the wrong area.