



Key

- Local authority boundaries
- Lines indicating the distance from the proposed turbine locations
- Cairngorms National Park
- Cairngorms Dark Sky Park

**Intensity of Turbine Light shown in Candelas (cd)**

Vertical Angle	Turbine Lighting Intensity	
	2000cd light	200cd light
3° to 0°	2000cd to 1500cd	200cd to 150cd
0° to -1°	2000cd to 750cd	200cd to 75cd
-1° to -2°	800cd to 265cd	80cd to 27cd
-2° to -3°	265cd to 200cd	27cd to 20cd
-3° to -4°	200cd to 175cd	20cd to 18cd
Below -4°	175cd to 75cd	18cd to 8cd

Notes: This drawing is based on a computer generated Zone of Theoretical Visibility (ZTV). The areas shown indicate the maximum theoretical visibility of the proposed turbines using OS Terrain 50 data only and do not take account of any screening from vegetation or built-form. The ZTV also includes an adjustment that allows for the Curvature and Light Refraction of the Earth.

This figure has been based on the following parameters:  
 Turbine layout file: LCLASH2001.WFL  
 Hub height: 110m  
 Rotor diameter: 140m  
 Height to blade tip: 180m



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Client

Clashindarroch II Wind Farm  
 Supplementary Information

**SI 2021 Figure 7.12e  
 Cairngorms Dark Sky Park - Light Intensity  
 ZTV (Zone of Theoretical Visibility)**