



Project:
**Daer Wind Farm,
 South Lanarkshire/Dumfries
 & Galloway**

Title:
**Figure 5.4 Theoretical Visibility
 of Aviation Lighting by Intensity**

- Key**
- Proposed turbines with visible aviation lighting
 - Proposed turbines without visible aviation lighting
 - LVIA viewpoint
 - Local Planning Authority boundary
- Theoretical visibility of predicted lighting intensity**
- Orange: 0° to 3° (2000 candela)
 - Light Orange: 3° to 4° (2000 candela reducing to 1400 candela)**
 - Yellow: 0° to -1° (2000 candela reducing to 750 candela)
 - Green: -1° to -2° (750 candela reducing to 80 candela)
 - Blue: -2° to -3° (80 candela reducing to 40 candela)
 - Purple: -3° to -4° (40 candela reducing to < 10 candela)

ZTV notes:

- * ZTV demonstrates potential visibility of the aviation warning lighting only. Whole or parts of turbines themselves may be visible where no lighting is illustrated.
- * ZTV represents worst case scenario as current CAA requirements allow reduction of lighting intensity to 200 candela beyond 5 km.
- * Visibility takes earth curvature and atmospheric refraction into account, but not daylight/weather conditions, buildings, trees or other surface obstacles.
- * ZTV produced for 8 turbines at 102.5 m nacelle height at a range of vertical angles.
- * Viewpoint set at 2 m AGL.
- ** ZTV calculations returned no result for this value and above.

© Crown Copyright 2021. All rights reserved. Ordnance Survey Licence 0100031673.

Scale @ A3: 1:150,000
 Coordinate System: British National Grid

Date: 25-01-21	Prepared by: DH	Checked by: GG
Ref: GB200492_M_155_B	Layout: 070720_17t_A	

Drawing by:
 The Natural Power Consultants Limited
 The Green House
 Forrest Estate, Dalry
 Castle Douglas, DG7 3XS, UK
 Tel: +44 (0)1644 430008
 Fax: +44 (0)845 299 1236
 Email: sayhello@naturalpower.com
 www.naturalpower.com



Notes: a) Information on this plan is directly reproduced from digital and other material from different sources. Minor discrepancies may therefore occur. Where further clarification is considered necessary, this is noted through the use of text boxes on the plan itself. b) For the avoidance of doubt and unless otherwise stated: 1. this plan should be used for identification purposes only, unless otherwise stated in accompanying documentation. 2. The Natural Power Consultants Limited accepts no responsibility for the accuracy of data supplied by third parties. 3. The Natural Power Consultants Limited accepts no liability for any use which is made of this plan by a party other than its client. No third party who gains access to this plan shall have any claim against The Natural Power Consultants Limited in respect of its contents.