Viewpoint	Location		
1 3.3	Loch na Naich		
2	Killean		
3	Tayinloan Jetty		
4	Point Sands		
5	Beinn Bhreac		
6	Ardminish Bay Jetty (Gigha)		
7	Glenbarr War Memorial		
8	Creah Bhan		
9	A83 at Clachan		
10	Beinn Bharrain, Isle of Arr <mark>an</mark>		
11	B8024, Knapdale 🖊		
12	Islay Ferry, West Log <mark>h Tarbert</mark>		
16	Pirnmill /		
17	Machrie Bay		

NOTES

- 1. A reduced lighting scheme has been agreed with the Civil Aviation Authority (CAA) and it is proposed four of the nine turbines would be lit (T03, T06, T08 and T09).
- 2. The visible turbine lights "will be switched on between Evening Civil Twilight and Morning Civil Twilight. Approximately 11 hours per day averaged over the year."
- 3. Civil Aviation Authority SARG Policy Statement (2017) states "If the horizontal meteorological visibility in all directions from every wind turbine generator in a group is more than 5 km, the intensity for the light positioned as close as practicable to the top of the fixed structure required to be fitted to any generator in the windfarm and displayed may be reduced to not less than 10% of the minimum peak intensity."
- 4. The lighting intensity for each of the vertical angles shown in the above table has been provided by Contarnex (Light Bulb Manufacturer) and is based on optimal test conditions in a calibration chamber.
- 5. The perception of theoretical candela intensity does not take account of atmospheric attenuation (reduction in brightness over distance).
- 6. The ZTV does not take account of surface features such as buildings or forestry.
- The ZTV has been produced using OS Terrain 50 height data and calculates the difference in vertical angle between the turbine lights and the study area.
- 8. The ZTV represents a reasonable worst case and the theoretical lighting intensity illustrated may be the result of a single turbine within the group.
- 9. Actual visibility is likely to be less than predicted due to a range of other factors considered in Appendix 5.7 of the LVIA which include the darkness adaptation of individual receptors and weather obscuration. Further technical information can be found in Appendix 5.7 Night-time Lighting Assessment Methodology.



1	power for good				
	KILLEAN WIND FARM				
	FIGURE 5.8 TURBINE LIGHTING INTENSITY ZTV TO 20 KM WITH VIEWPOINTS				
	Reproduced from Ordnance Survey digital data © Crown copyright and database rights 2024.				
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D		Site Boundary			
		, Study Area 20km			
K	 o	Proposed Lit Turbines			
		Proposed Unlit Turbines			
	(1)	LVIA Viewpoints			
		Local Authority Boundary			
	INTENSITY OF TURBINE LIGHT SHOWN IN CANDELA (CD)				
	VERTICAL	2000 CD LIGHT	200 CD LIGHT		
) is not the second	3° TO 0°	UP TO 2500 CD	UP TO 250 CD		
AN	0° TO -1°	2185 CD TO 982 CD	218 CD TO 98 CD		
	-1° TO -2°	982 CD TO 413 CD	98 CD TO 41 CD		
44	-2° TO -3°	413 CD TO 217 CD	41 CD TO 21 CD		
Nor	-3º TO -4º	217 CD TO 172 CD	21 CD TO 17 CD		
vrs	BELOW -41	BELOW 172 CD	BELOW 17 CD		
	SCALE - 1:160,000 @ A3				
	ENVIRONMENTAL IMPACT ASSESSMENT REPORT 2024				