



- Key - General Operation:**
- BS 5489-1:2013 Car Park
Eav = 5Lux, U₀ = 0.25
 - BS 5489-1:2013 S4 Road
Eav = 5Lux, E_{min} = 1Lux
 - BS 5489-1:2013 CE4 Area
Eav = 10Lux, U₀ = 0.4
 - BS EN 12464:2:2007 Pick up/ drop off/
turning
Eav = 10Lux, U₀ = 0.4
 - BS EN 12464:2:2007 Walkways
Eav = 5Lux, U₀ = 0.25
 - BS EN 12464 Laydown Area
Eav = 30Lux, U₀ = 0.4
 - BS EN 12464:2:2007 BS 8300: 2009 + A1:
2010
Entrances to Welfare Center
 - BS EN 1838:2013
Emergency Lighting to Exits
1 Lux minimum outside door
 - BS EN 12464:2:2007
Maintenance Perimeter Walkway
Eav = 20Lux, U₀ = 0.25
(identified for use only during planned shut
down)
 - BS EN 12464:2:2007
Transformer Pen safety lighting.
Eav = 10Lux, U₀ = 0.25
(only to be used in event of major
replacement)
 - Emergency Lighting to Helipad
(only in event of emergency requiring
helicoptered ambulance)

- General Operation Notes:**
1. The concept of the external lighting of the site is to keep the lighting to a minimum. The intention is that the levels have been selected on a 3 step basis.
 - Defining if lighting is an absolute requirement (I.e. could other methods be used to limit light and provide a safe working environment).
 - Identification of minimum levels of light required to safely perform anticipated tasks by using British Standard Codes and industry guidance.
 - Effectively deliver light to the surface and prevent unwanted upward light distribution and spill onto the surrounding area.
 2. This operational lighting plan is to be implemented only for planned shut down maintenance where mining operations shut down or in the event of a major incident for major maintenance.
 3. Lighting levels illustrated have been selected following discussions with YPL to understand likely activities above ground during the hours of darkness. Levels have been chosen in accordance with guidance provided within the following documents:
 - BS EN 12464:2 Lighting of work places - Outdoor work places
 - BS EN 5489:1 Lighting of road and public amenity areas.
 - CIBSE Lighting Guide 6 - Lighting of outdoor environment.
 - GN01:2011 Guidance notes from the reduction of obstructive light.
 - BS EN 1838:2013 Lighting Applications Emergency Lighting.
 4. To be read in conjunction with the Arup report REP-P2-EL-002 Basis of Design - External Lighting.
 5. Emergency exit locations and entry/ exit points are subject to chance following the development of the detailed Minehead buildings and MTS design and requirements. Final locations are to be reviewed once known.
 6. Circulation lighting is to be provided to perimeter walkways around the Minehead buildings as shown for access only.
 7. Temporary lighting around winding towers to be provided via towers as required for specific tasks of major maintenance.

1	12/07/17	JB	DL	CW
For planning				
Issue	Date	By	Chkd	Appd

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Client
Sirius Minerals Plc

Job Title
**Woodsmith Mine
Minehead**

**External Lighting Treatment Plan
Planned Shut Down Maintenance /
Major Incident Operation**

Scale at A1 1:2000	
Discipline Lighting	
Job No 253285	Drawing Status For Planning
Drawing No YP-P2-EL-105	Issue 1