

Black Mountain Mining

BMM-HSE-VOH-SOP-0020 Illumination Standard V5

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CHANGE HISTORY

Modified Date	Version	Modified by	Description of change
2019/03/08	2.0	CW Klopper	Change to new format Included Glare Index
2022/07/17	3.0	CW Klopper	Due for review
2023/01/09	4.0	F HAEFELE	NEW SOP TEMPLATE
2024/11/14	5.0	LA Magerman	Due for Review

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DEFINITIONS AND ABBREVIATIONS

Word / Phrase / Abbreviation	Definition
PEME	PEME is an acronym used in Black Mountain Mining and has the following meaning: - People, - Equipment, - Materials, - Environment, The use of this in written documentation helps to comply with Resources Clause 7 – ISO 9001, ISO 14001 and ISO 45001. It is advisable to include in all written documentation.
BMM	Black Mountain Mining
cd	Candela (luminous intensity)
IFC	International Finance Corporation
Illuminance	A measure of the brightness of the light falling on an object
Employee	Includes BMM and Contractor & Business Partner employees
fl	Floor Level
Lux	Unit of illuminance (1 lux = 1 lumen per square meter)

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1. PURPOSE

To have in place an illumination standard for equipment and work areas to ensure the health and safety of employees and improving working conditions.

2. SCOPE

This standard applies to all Black Mountain Mining licensed areas.

3. RESPONSIBILITY

3.1 VENTILATION AND OCCUPATIONAL HYGIENE

Ensure that the following minimum requirements are adhered to:

- a) Surface infrastructure illumination surveys are conducted as determined by the Risk Assessment – refer to the “Frequency of Conduction Illumination Levels” table further in this document
- b) Equipment/Machinery illumination surveys are conducted as determined by the Risk Assessment, refer to the “Frequency of Conduction Illumination Levels” table further in this document
- c) A calibrated lux meter with preferably cosine and colour correction shall be used to do measurements
- d) Results of all illumination surveys shall be documented, inclusive of recommended action or rectification to be taken, and circulated to the relevant responsible person(s) for action as well as to line management for information
- e) Follow-up surveys shall be undertaken after recommended actions have been completed or after rectification has been completed
- f) Ensure that the correct monitoring method, procedures and equipment are used for each survey
- g) Ensure that all illumination survey measurements are conducted whilst the specific activity “as in a normal day work”, is being performed
- h) Ensure that surface illumination surveys are conducted during night-time should the activity/work be performed during a night shift
- i) Ensure that all lux meters are calibrated as per original equipment manufacturer specification (annually as a norm)
- j) Ensure that all lux meters are checked and a “zero check” performed before use by covering the sensor head to exclude all light. If zero is not obtained the lux-meter

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must be send for re-calibration. All lux meters are to be compared to other lux-meters against a common source of light and the results documented monthly

3.2 ENGINEERING DEPARTMENT AND LINE MANAGEMENT

Ensure that the following minimum requirements are adhere to:

- a) Comply with the pre-use checks and operating procedures for lux meters if used to conduct illumination checks or surveys as specified in this standard.
- b) The minimum illumination levels in their area of responsibility are maintained at the levels specified in this document, or as per local legislation, whichever is the most stringent.
- c) That all types of glares (reflective, absolute & adaptive) in any workplace is reduced to a level that it does not impair vision or cause discomfort.
- d) Lighting and luminaires on rotating machinery shall be installed in such a way that the hazard of stroboscopic effect will be eliminated.
- e) Lamps and luminaires shall be kept clean with a strict maintenance schedule, and when defective be replaced or repaired without delay.
- f) Illumination equipment will be positioned/installed in such a way that it is easily accessible to clean and conduct maintenance.
- g) Energy efficient equipment must be used when safe and possible to do so.
- h) Illumination equipment (for example: fluorescent tubes) will be disposed in an environmentally friendly way according to the applicable hazardous waste management principals.
- i) Surface: The efficient operation of emergency lighting must be tested at intervals not exceeding three (3) months
- j) Underground: Cap lamps will be utilized as backup/emergency lighting in the event of an underground power failure.
- k) Illumination levels must be provided in conjunction with good contrast.
- l) Provision of reflective clothing for all employees.

4. GENERAL

4.1 ILLUMINATION MEASUREMENTS

- a) Illumination measurements must, as far as reasonably practicable, always be taken on the same horizontal level to ensure consistency

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- b) The light detection cell must be held at right angles to the light source to prevent light from being reflected away, or being absorbed by the lux-meter casing
- c) Illumination measurements must be taken where the activity occurs e.g. on a desk top, at a work piece being shaped, on ground level on a walkway where persons are required to walk, a dump site, etc. The rule is that the reading must be taken on the surface where the employee will focus during the task or activity. If no specified activities are being performed it is acceptable that the reading to be taken at ground level
- d) Care must be taken with the decision on suitable light sources, taking in account the type of activity to be performed and the safety risks involved

4.2 EMERGENCY LIGHTING

The requirements as stipulated in the South African National Standards User Code for Interior Lighting & Emergency Lighting SANS (SABS) 10114-1 and 2 & the IFC General EHS Guidelines were considered:

- e) A minimum of 5 lux luminance levels must be provided at all areas where employees might work or need to travel in the case of an emergency, 0.3 lux at floor (ground) level
- f) A minimum of 20 lux luminance levels must be provided at all areas where machinery needs to be stopped or plants need to be shut down in the case of an emergency
- g) Emergency lighting must be capable of being activated within fifteen seconds (15 sec) after failure of the normal lighting, and able to last for a minimum period of thirty minutes (30 min) to ensure the safe evacuation of all indoor workplaces
- h) The efficient operation of emergency lighting must be tested at intervals not exceeding three (3) months

4.3 METHODOLOGY

When an illumination survey is being conducted, the correct methodology for each situation must be considered. These include:

- i) Guidelines in the Mine Ventilation Practitioners Data Book Volume 1 & Volume 2
- j) Mine Health & Safety Act, Act 29 of 1996 as amended
- k) Standards from the Occupational Health & Safety Act & Regulations, Act 85 of 1993; Environmental Regulations for Workplaces
- l) South African National Standards User Code for Interior Lighting & Emergency Lighting SANS (SABS) 10114-1 and 2
- m) IFC General Environmental, Health & Safety (EHS) Guidelines

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4.4 REPORTS

Illumination Monitoring, which could be incorporated into various reports, should contain the following information, but need not be limited to:

- n) The date of the survey.
- o) The name of the observer.
- p) Description of the measuring equipment used during the survey, including calibration information.
- q) The approximate time of the survey (day-shift or night-shift, except for underground)
- r) The levels measured, linked to the required illumination standard for the workplace, equipment or task.
- s) Sketches and descriptions, if/when required (photographs should be used whenever possible)
- t) Luminaire condition and maintenance.
- u) Comments on observed glare & contrast (if necessary)
- v) Comments on compliance with recommended illumination levels / recommendations on corrective actions to be taken.
- w) Signatures

Reports must be forwarded to management for comment and for follow-up actions

5. FREQUENCY OF MONITORING ILLUMINATION LEVELS

Illumination levels will be monitored at the frequency as set out below:

Location	Frequency of Monitoring	
UNDERGROUND LOCATIONS		
Main travelling routes – emergency escape ways	Quarterly	
Shaft stations	6-monthly	
Haulages – main intersections	6-monthly	
Waiting places and refuge bays	Quarterly	
Conveyor beltways, crushers and tips	Quarterly	
Underground Workshops	Quarterly	
Main sub-stations & Transformer (mini – substation)	Quarterly	

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Pump chambers	6-monthly	
Offices & Tearooms	Annually	
Storerooms	6-monthly	
GENERAL MINE SURFACE AREAS		
Change houses & Laundry facilities	Quarterly	
Chemical Control Rooms & Storage	6-monthly	
Clinics / Medical facilities	Annually	
Compressor houses	Quarterly	
Educational institutions (Training Centre)	Annually	
Main & mini-substations	Quarterly	
Offices & Tearooms	Annually	
Hostel Kitchens & dining rooms	Annually	
Plant Laboratory	Quarterly	
Offices & toilet facilities	Annually	
Conveyor structures (along belt)	6-monthly	
Ore loading pads	6-monthly	
Crushing, milling areas & Floatation area	Quarterly	
Backfill plant	Quarterly	
Water dosing plant	Annual	
Winding houses	Quarterly	
Lamp rooms	Six-monthly	
Fan houses	Six-monthly	
Workshops	Quarterly	
TMM & Vehicles		
Drill rig	Annual	
Bolter	Annual	-
Scaler	Annual	
Dump Truck	Annual	
LHD	Annual	
Scissor lift	Annual	
Boom lift carrier	Annual	
Boomer	Annual	
Grader	Annual	
LDV	Annual	

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6. ILLUMINATION LEVELS

Illumination levels are referenced from the following:

- x) Mine Health & Safety Act, Act 29 of 1996 (as amended)
- y) Guidelines in the Mine Ventilation Practitioners Data Book Volume 1: Illumination in Mines
- z) Occupational Health & Safety Act & Regulations, Act 85 of 1993 (as amended):
Environmental Regulations for Workplaces – Minimum Average Values of Maintained Illuminance
- aa) IFC General Environmental, Health & Safety (EHS) Guidelines

Illumination Standard for Black Mountain is detailed in the table below. Where a location below does not define an area exactly, select the “best fit”:

Location	Minimum Illuminance (lux)	Glare Index (max)
UNDERGROUND LOCATIONS		
Main travelling and access routes		
Ladder-ways in vertical shafts	20	-
Shaft conveyances for man riding (including cages)	20	-
Inclined shafts or ramps with walkway	20	-
Shaft stations and shaft sub-banks	160	-
Haulages – main intersections	20	-
Access crosscuts	20	-
Ventilation doors	50	-
Waiting places and refuge bays	20	-
Ore transport and handling system		
Conveyor beltways: drives, tail-ends, transfer points and crossings	50	-
Ore loading stations - boxes, bins, flasks, tips, grizzlies	160	-
Conveyor structures (along belt)	10	-
Underground crushing (& milling) areas	160	-
Workshops		
Major maintenance	400	-

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Service only	200	-
Refueling bays	160	-
Wash bays	160	-
Electrical and mechanical installations		
Main sub-stations	100	-
Switchgear rooms and sites	100	-
Winder and hoist rooms	20	-
Scraper winch cubbies	100	-
Fan chambers - permanent, in excess of 50 kW	100	-
Refrigeration plant rooms	100	-
Pump chambers	100	-
Battery charging bays	100	-
Cement and backfill batching plants	100	-
Transformer (mini – substation)	20	-
General		
Lights to be carried (cap lamps)	50 cd	-
Washrooms, toilets (floor level)	100 (fl)	-
Stationary lights and storerooms	50	-
Static machinery and workshops	50	-
Self-propelled machinery and trains	10 lux @ 20m	-
GENERAL MINE SURFACE AREAS		
Ablution & Laundry facilities		
Washrooms, toilets & changing rooms (floor level)	100 (fl)	-
Laundries	200	-
Chemical Control Rooms & Storage		
Panels	200	-
General working areas	100	-
Raw chemical storage	150	-
Cold stores		
General working areas	100	-
Clinics / Medical facilities		

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Corridors (floor level)	100 (fl)	19
General working areas	100	13
Radiology	500	19
Dispensary	200	19
First aid rooms (Resus bay)	100	-
Compressor houses		
General areas	75	
Computer Rooms		
Telecommunication room	400	22
General computer work	500	19
Community Center		
General working areas	150	-
Entrances at doors	100	-
Educational institutions (Training Centre)		
Classrooms / lecture rooms	200	-
General working areas	100	-
Electrical installations		
Main & mini-substations	100	-
High voltage yard	10	-
Engineering Inspection		
Rough visual checking of parts	100	28
Medium work; e.g. gauges	200	25
Fine work; e.g. calibrating scales	500	22
Fire Stations		
Appliance rooms	100	-
Fire Fighting Equipment	100	-
General areas		
Canteens & dining rooms	100	-
Cloak rooms, entrances, rest rooms (floor level)	100 (fl)	-
Kitchens	150	-

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Hostels		
Entrances (floor level)	100 (fl)	-
Stairs & Corridors (floor level)	100 (fl)	-
Kitchens	150	-
General working areas	50	-
Laboratories and test rooms		
General laboratories, balance rooms	200	19
Electrical and electronic instrument laboratories	300	19
Calibrated scales, precision mechanical instruments	300	-
Machine and fitting		
Rough bench and machine work	160	25
Medium bench and machine work, ordinary automatic machines, rough grinding, medium buffing and polishing	200	25
Fine bench and machine work, fine automatic machines, medium automatic machines, medium grinding, fine buffing and polishing	500	22
Extra fine bench and machine work, fine grinding	800	-
Material handling		
Wrapping, packaging, labeling, dispatch	150	-
Sorting, stock, classifying, loading	100	-
Offices		
Entrance halls and reception areas	100	-
Conference rooms, general offices, typing and filing	300	19
Computer and business machine operations	500	19
Drawing offices	500	16
General (floor level)	75 (fl)	-
Stairs, escalators and ramps (floor level)	100 (fl)	-
Ore transport and handling system		
Conveyor beltways: drives, tail-ends, transfer points and crossings	50	-
Ore loading stations - boxes, bins, flasks, tips, grizzlies	160	-
Conveyor structures (along belt)	10	-
Crushing & milling areas	160	-

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Outdoor Areas		
Bulk loading/unloading areas where manual operations are performed	50	-
Bulk loading/unloading areas which are entirely mechanical	10	-
Cooling water screens	160	22
Outdoor plants (processing, backfill, etc.)		
Gangways, catwalks, stairways, etc.	20	-
Paint shops and spraying booths		
Rubbing, dipping, ordinary painting, spraying and finishing	200	25
Stores & Warehouses		
Stairs (floor level)	100 (fl)	-
General Working Areas	100	-
Main entrance and exit	20	-
Storage areas (excluding big dumps)		
Water clarification plant	50	-
Storage tanks (operating area)	10	-
Shunting & Marshaling yards (floor level)	10	-
Surface buildings		
Preparation plants:		
- working areas	100	-
- picking belts	320	-
Winding houses	160	-
Lamp rooms	160	-
Weigh cabins	160	-
Fan houses	160	-
Blacksmith - general working area	75	28
- tempering	50	-
Boiler houses - boiler rooms	100	28
- boiler front (operating floor @ floor level)	150	-
Tool Rooms		
General	500	19
Refrigeration		

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Chilling and cold rooms, ice-making	160	-
Vehicles		
Direction of travel: capable & allowed to travel in excess of 40km/h	50 lux @ 20m	-
Direction of travel: travel less than 40km/h / mining area only	10 lux @ 20m	-
Wood Working;		
Rough bench work & sawing	150	25
Medium bench work & use of glue	200	25
Fine bench work & sanding	200	25
Workshops & garages		
Abrasive (sand) blasting	200	-
Refueling bays	100	-
Assembly Plants (engine, vehicle, etc.)	200	-
Machine & Fitting	500	-
Paint shop & Spraying booth	200	-
Parking areas (interior)	50	-
Repairs	200	-
Servicing pits	100	-
Sheet metal work; e.g. pressing, punching, bench work.	150	25
Washing, polishing, greasing	100	-
Welding & Soldering - Rough e.g. gas & arc	150	28
- Medium e.g. soldering & brazing of instruments/radios	200	25
- Fine e.g. electrical circuits	1500	22
Workbench	250	-
IFC Minimum Limits for Workplace Illumination Intensity		
Should the above not cover, the Lux levels below will be utilized		
Emergency light	10	-
Outdoor non-working areas	20	-
Simple orientation and temporary visits (machine storage, garage, warehouse)	50	-
Workspace with occasional visual tasks only (corridors, stairways, lobby, elevator, auditorium, etc.)	100	-
Medium precision work (simple assembly, rough machine works, welding, packing, etc.)	200	-
Precision work (reading, moderately difficult assembly, sorting, checking,	500	-

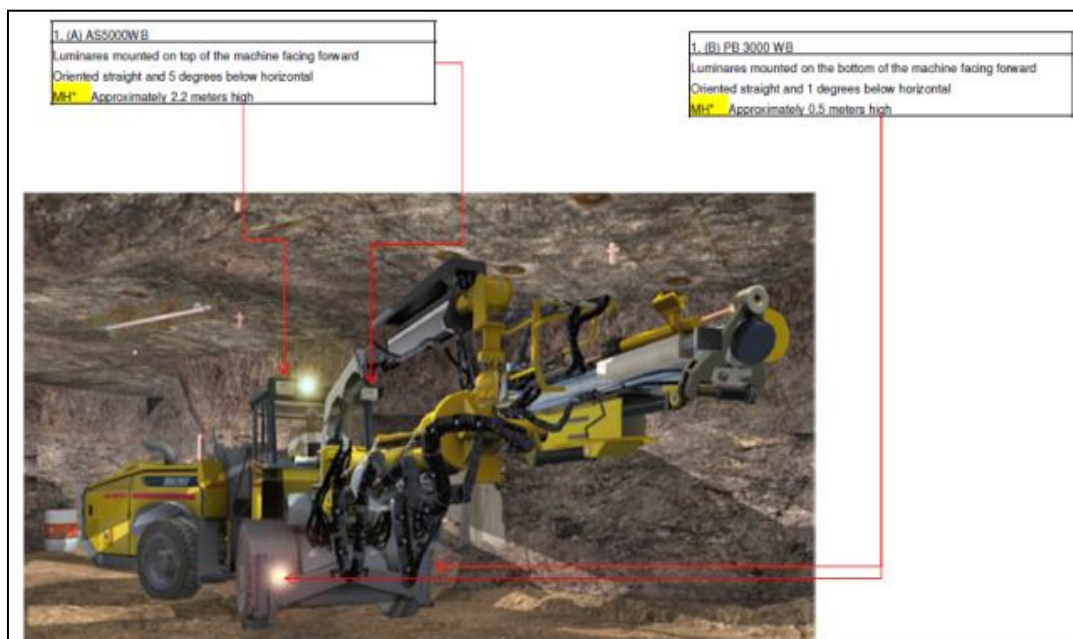
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medium bench and machine works, etc.), offices		
High precision work (difficult assembly, sewing, colour inspection, fine sorting etc.)	1000 - 3000	-

7. HEAVY MINING EQUIPMENT

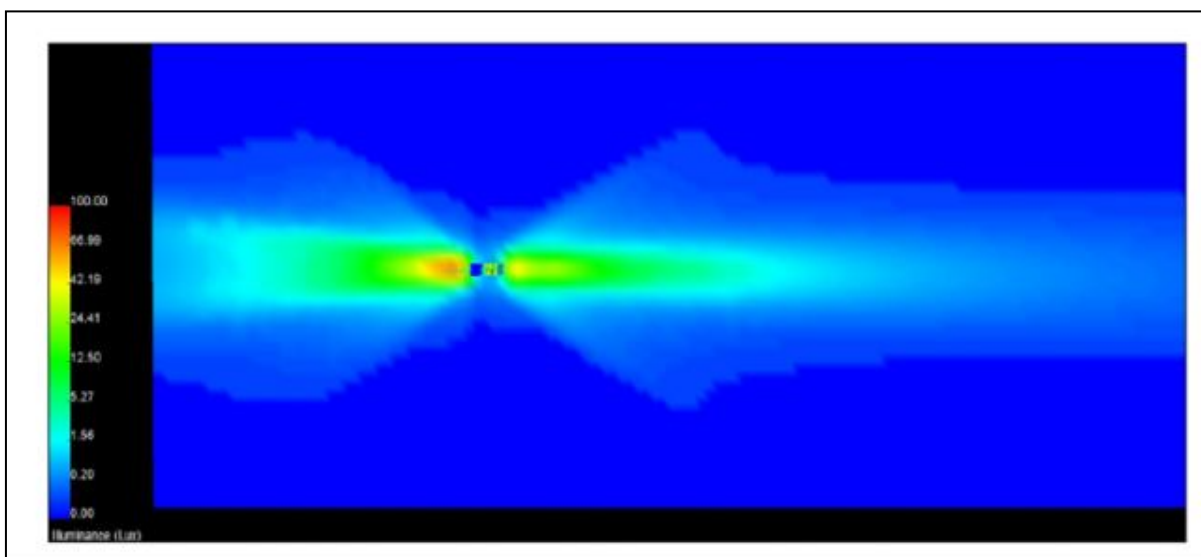
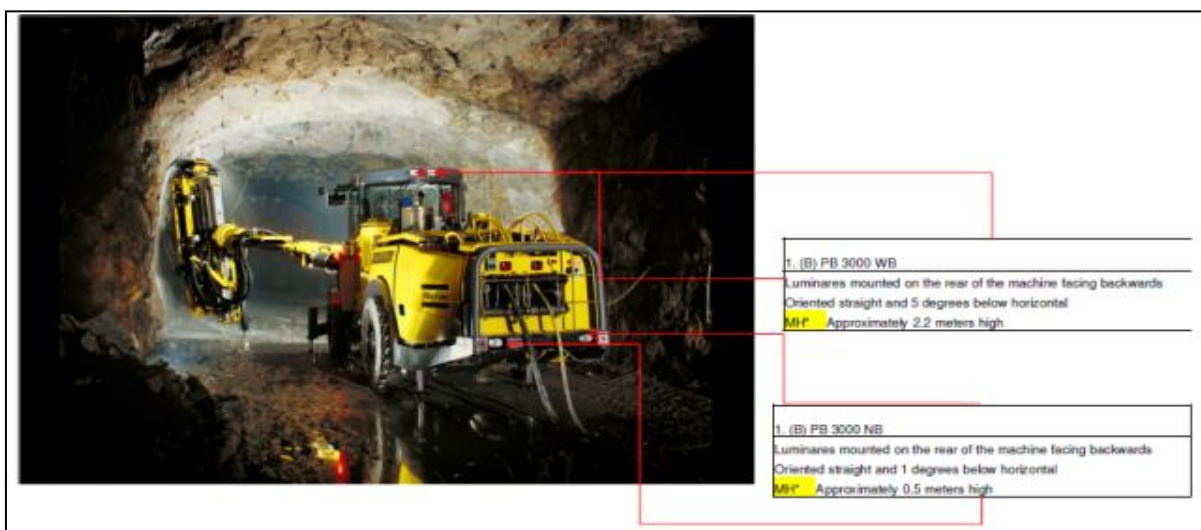
The following diagrams illustrate the minimum require illuminance levels at various positions around the different Trackless Mobile Equipment – position of installed luminaires could differ between equipment and are included for information purposes only.

7.1 ROOF BOLTER



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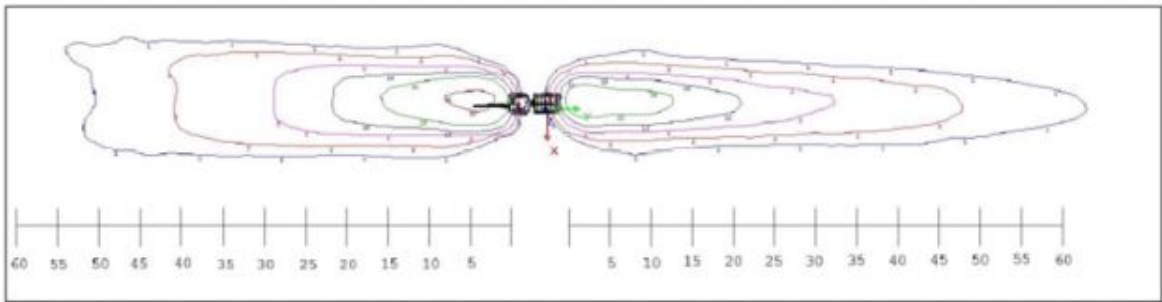
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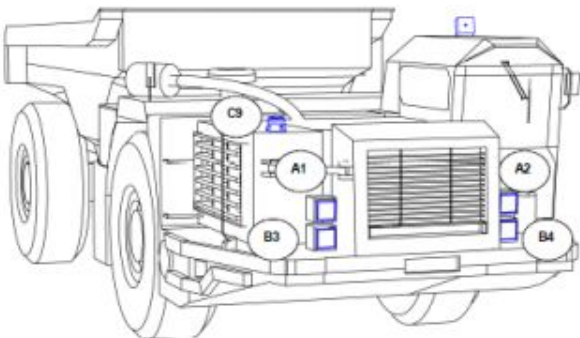
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Iso Line View

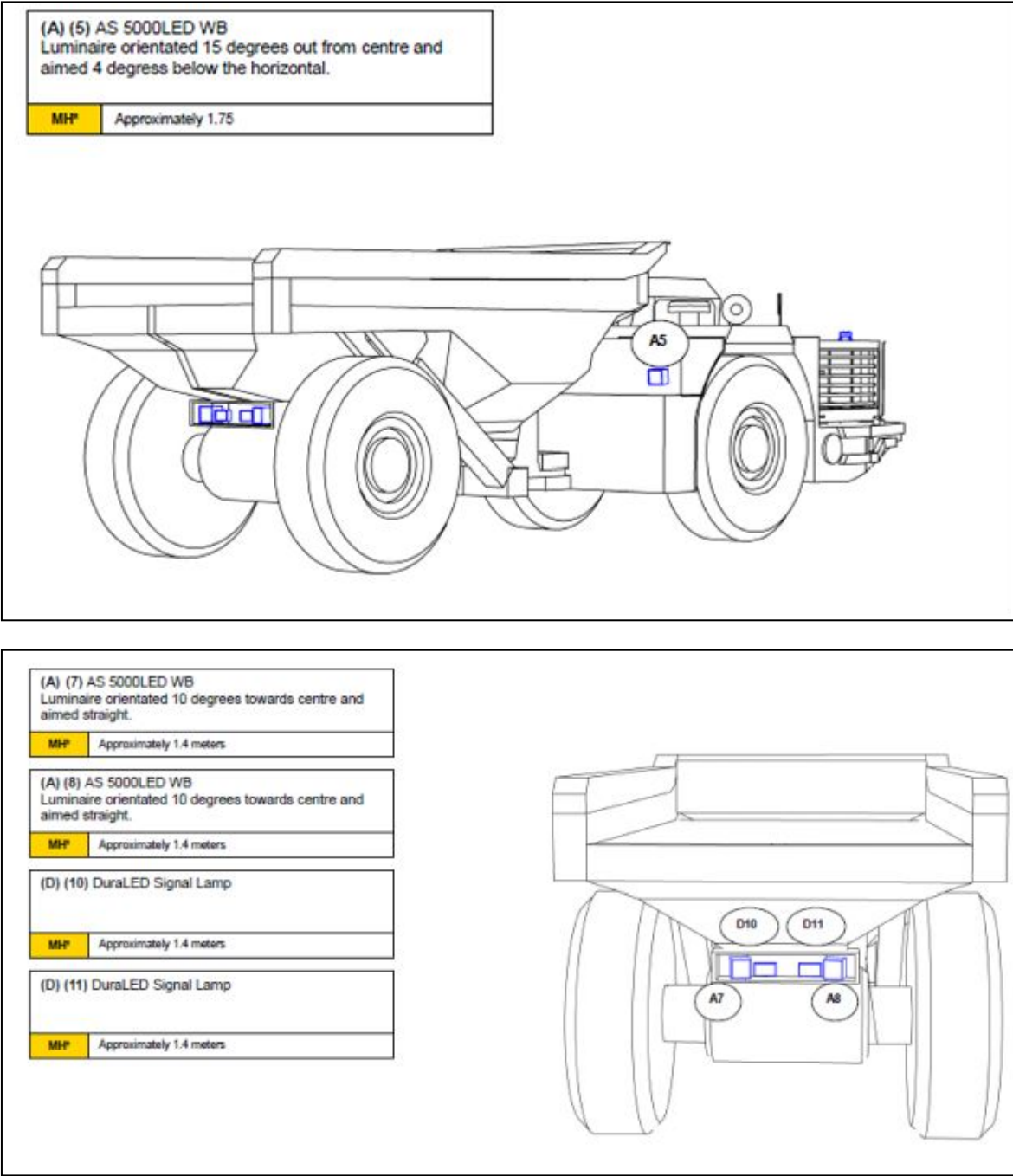
Illuminance levels are measured in Lux, distance in metres.

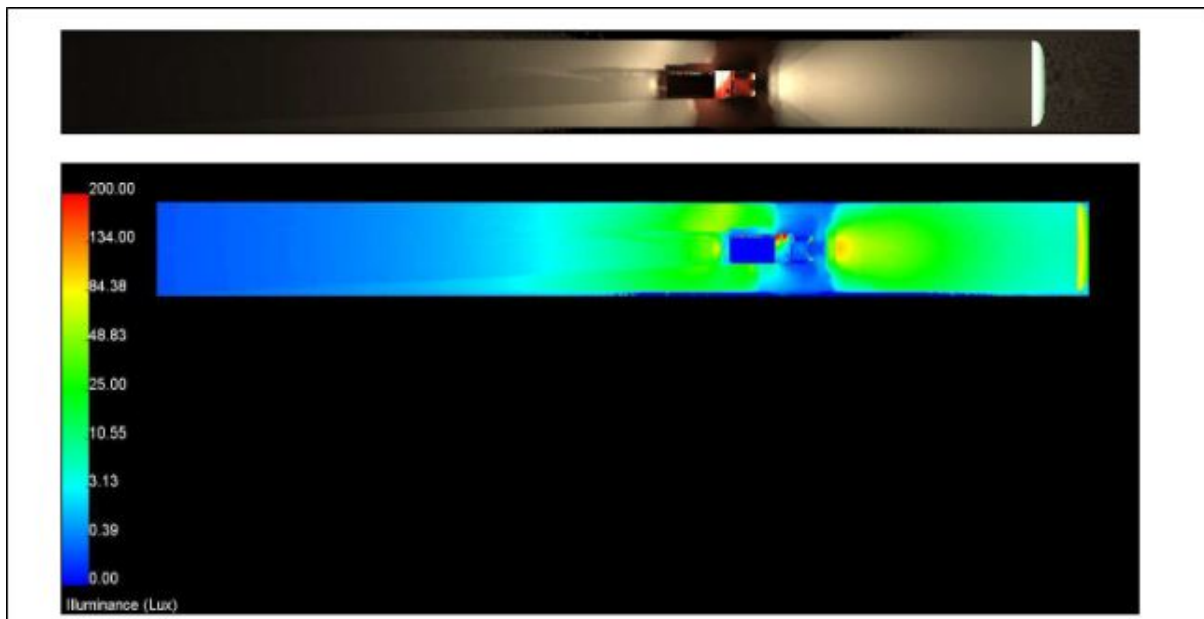


7.2 HAUL TRUCK

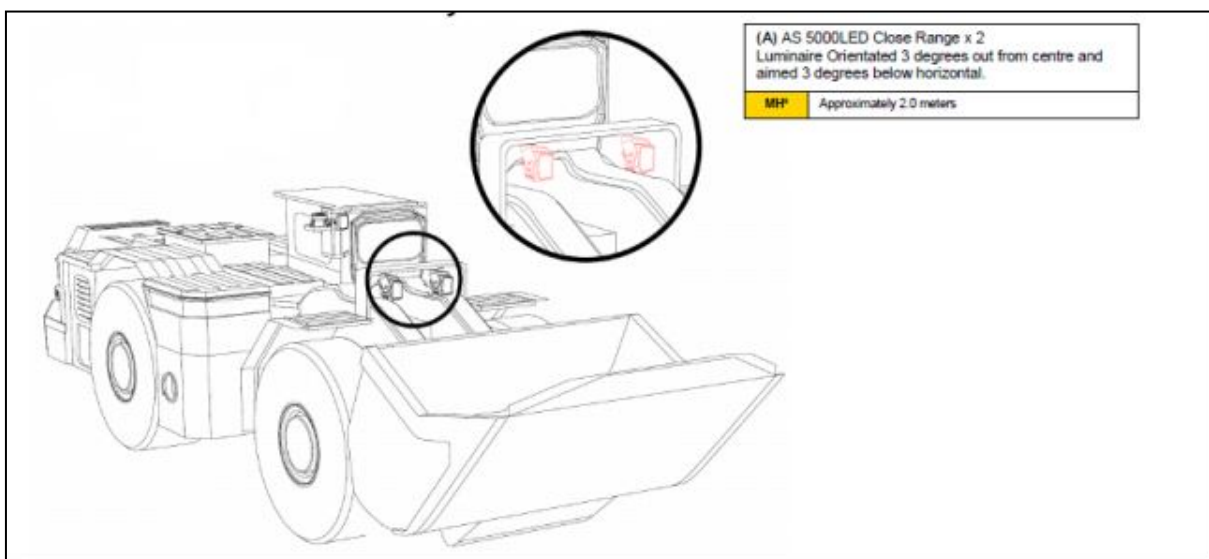
	(A) (1) AS 5000LED WB Luminaire Orientated straight aimed 3 degrees below horizontal.	
	MH*	Approximately 1.53 meters
	(A) (2) AS 5000LED WB Luminaire Orientated straight aimed 3 degrees below horizontal.	
	MH*	Approximately 1.5 meters
	(B) (3) AS 5000LED NB Luminaire Orientated straight and aimed straight.	
	MH*	Approximately 1.25 meters
	(B) (4) AS 5000LED NB Luminaire Orientated straight and aimed straight.	
	MH*	Approximately 1.25 meters
	(C) (9) DuraRAY 4 Tier Luminaire Mounted on body.	
	MH*	Approximately 2.1 meters

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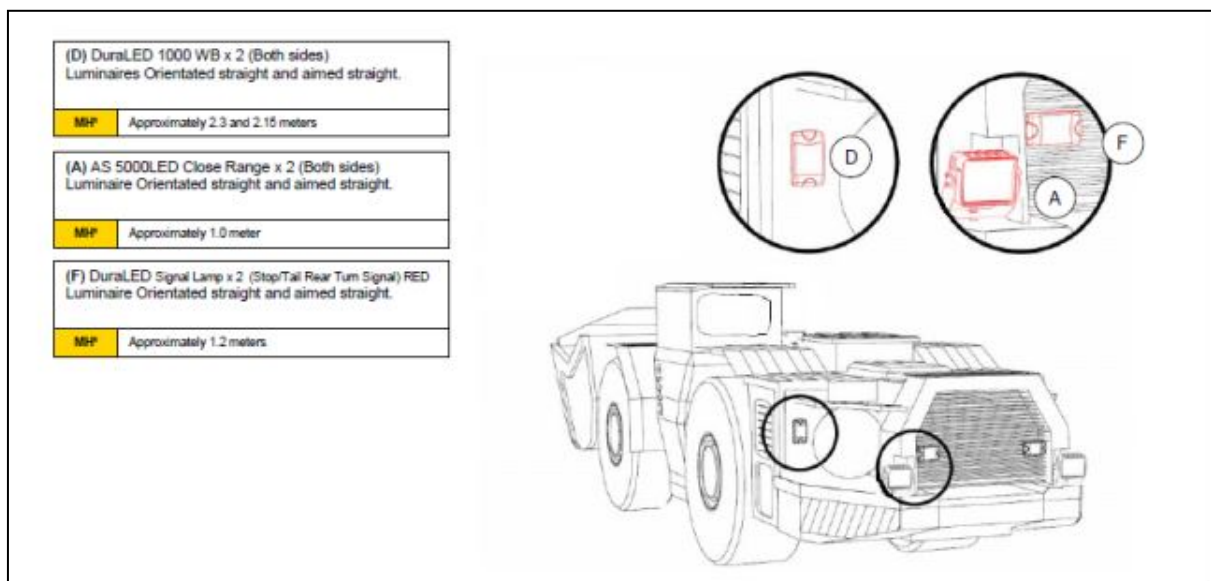
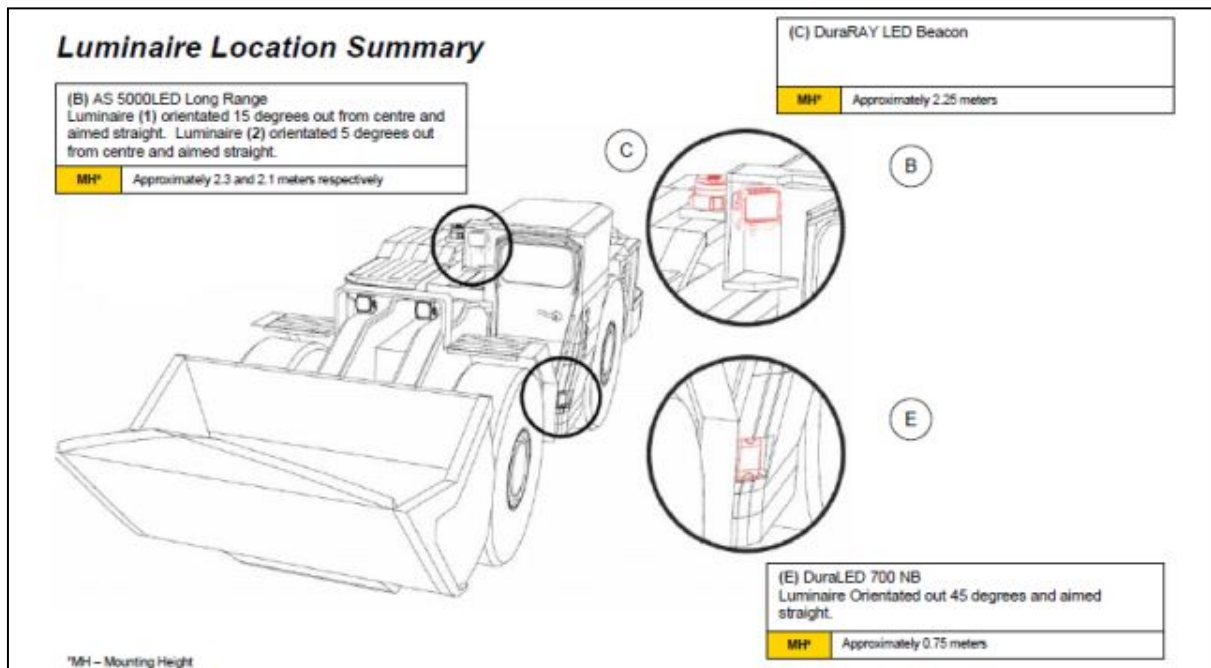


7.3 LOAD HAUL DUMPER

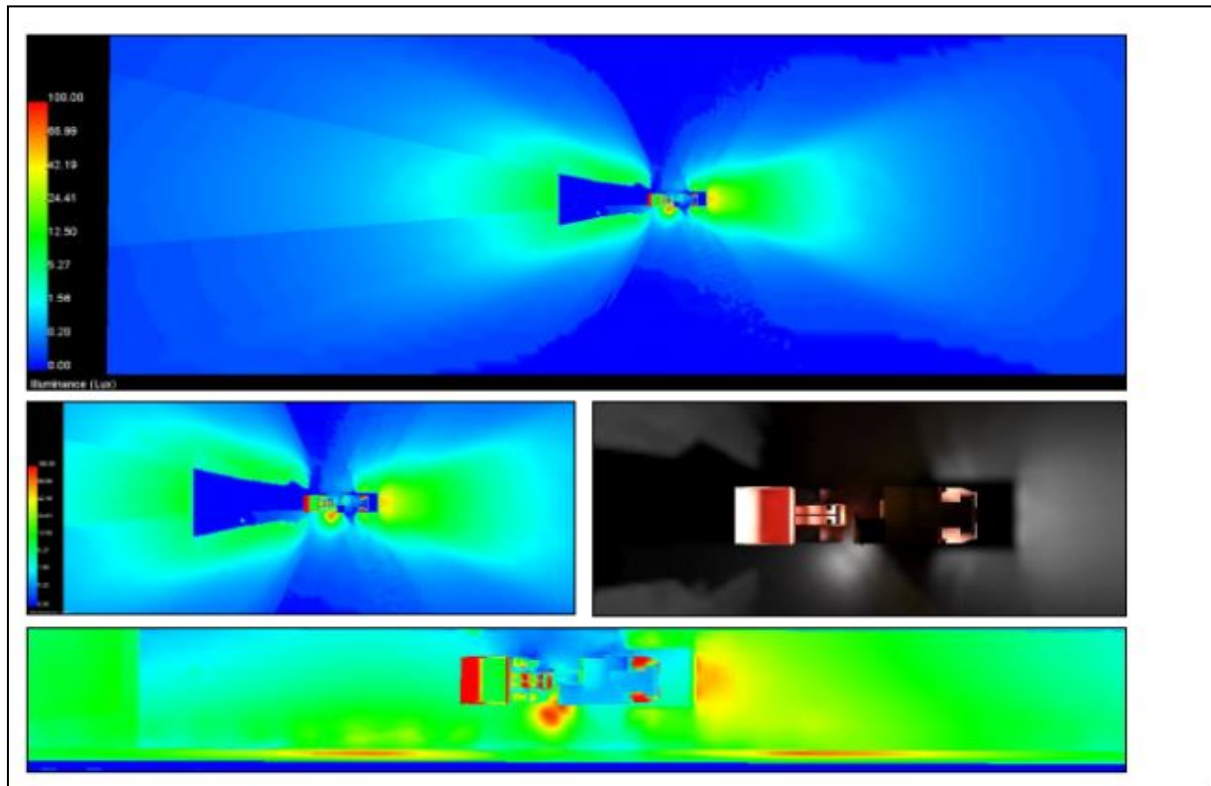


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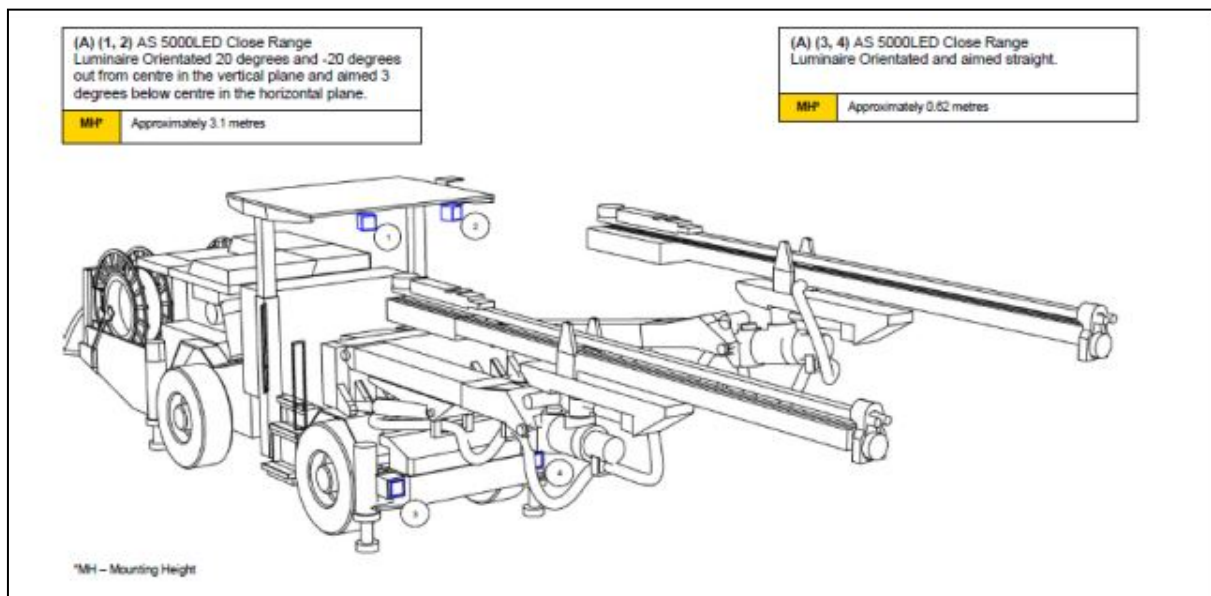
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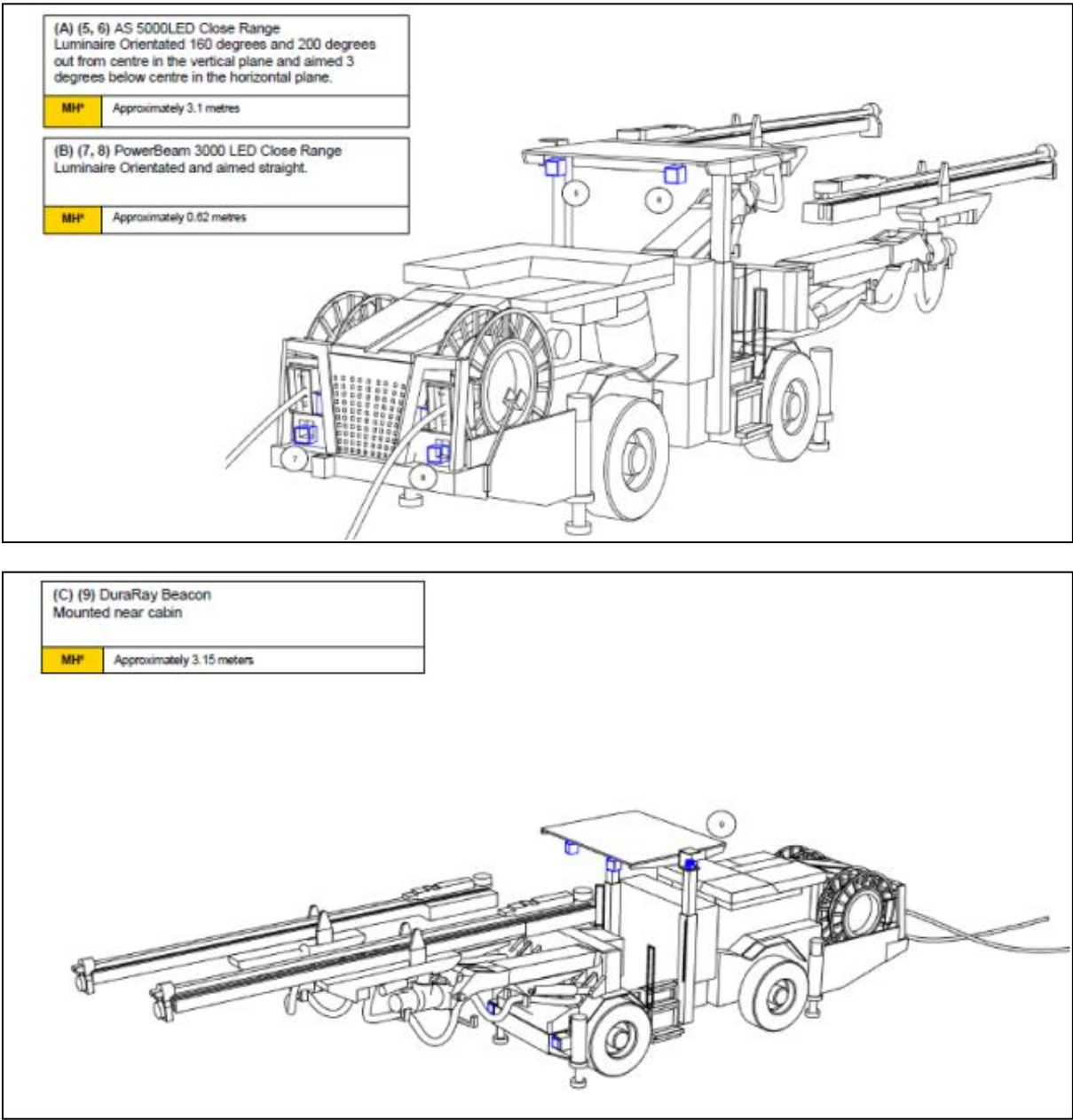
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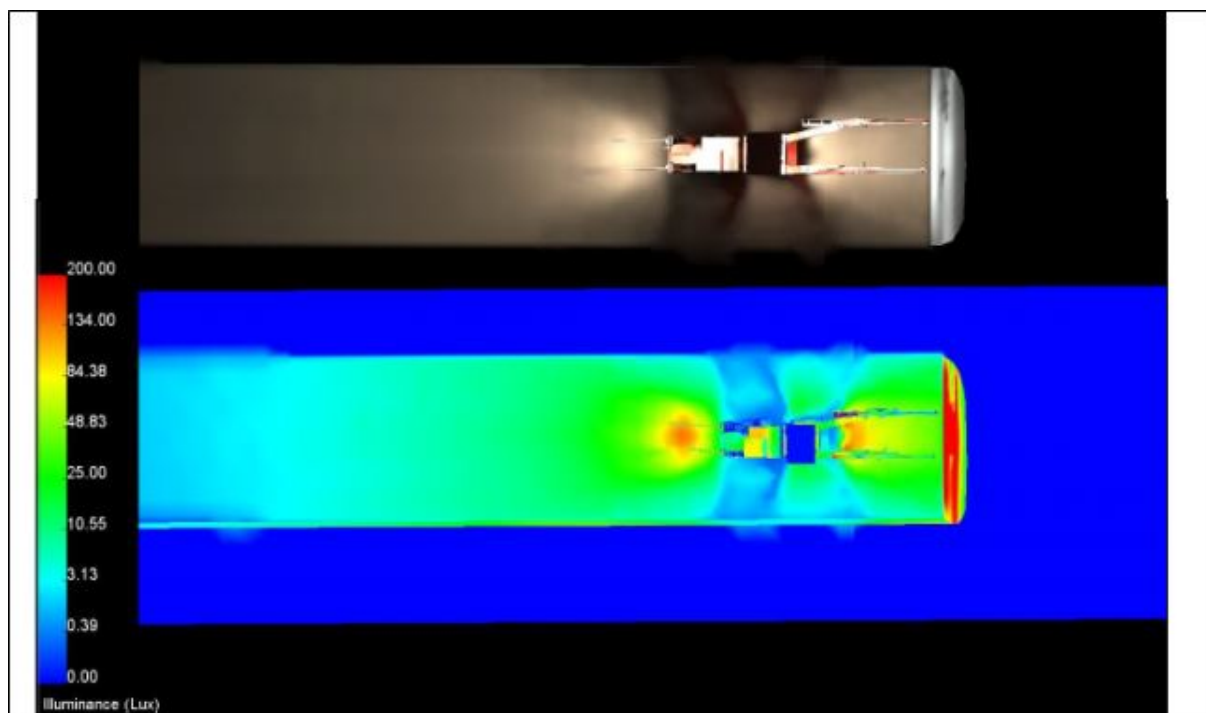
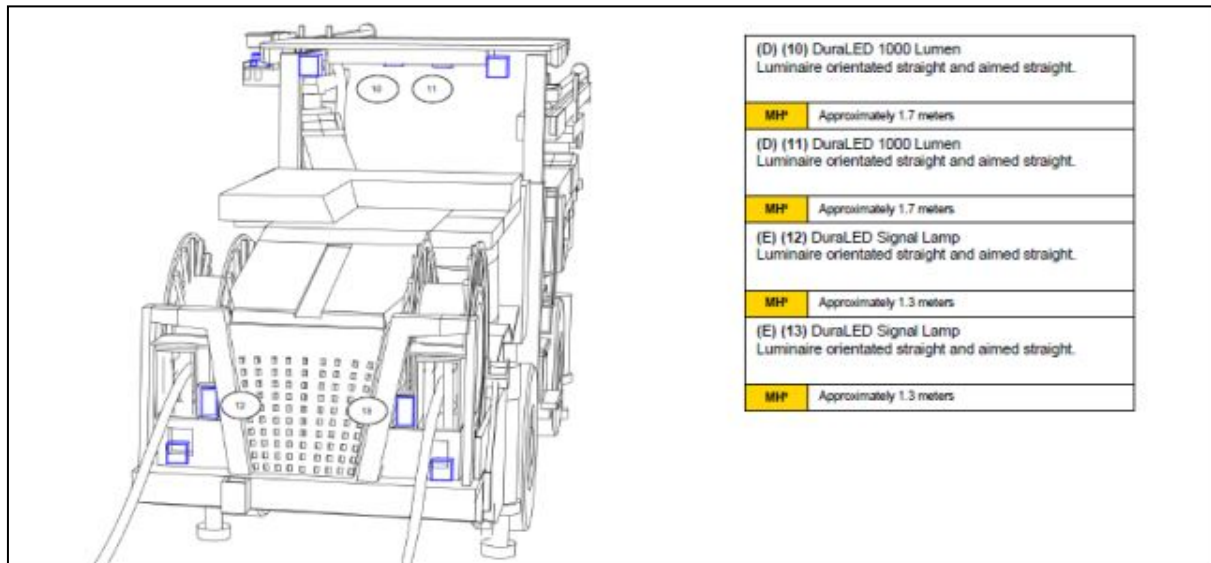
7.4 DRILL RIG



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8. DISTRIBUTION AND ACCESS

- The latest revision of this document is available as a read only on the document on the Intranet. The Compliance Officer shall maintain an authorised hard copy of this policy/procedure in the relevant location.

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- Line Managers, who have staff reporting to them that do not have access to the Intranet, shall ensure that these personnel are adequately guided and informed.

9. VALIDITY AND DOCUMENT MANAGEMENT

9.1 DOCUMENT VALIDITY

This SOP is effective from 2002/11/01 and was last reviewed on 09-12-2024.

This SOP will be reviewed every 2 Years.

9.2 DOCUMENT MANAGEMENT

- 9.2.1 This SOP replaces any other SOP issued earlier by BMM to the extent specifically covered here. This SOP should be followed in letter and spirit.
- 9.2.2 BMM is committed to continuously reviewing and updating policies and procedures, based on the Entity's risk assessment and shall incorporate for any regulatory requirement which is required to do so.
- 9.2.3 Any amendment to this SOP or issue of any guidance or circular etc. under this procedure must be approved in writing by the approving authority as listed in this document.
- 9.2.4 BMM reserves the right to withdraw, modify or revise the SOP as a whole / partial without providing any justification for the same. On revision, it should be duly communicated to the personnel involved.
- 9.2.5 If compliance with this SOP ever conflicts with the applicable law, regulation, directives issued by the statutory and or regulatory authority, then compliance must be ensured with the law.
- 9.2.6 In order to ensure compliance or to address any known conflicts with the law or to address any specific local requirements, BMM may adopt local sub-procedures which shall be by way of addendum to this SOP and which shall be approved by the approver of this SOP. Proposing of such addendum shall be the responsibility of the respective Entity's competent authority who is at an equivalent level with the SOP owner as set out in this document.

9.3 VIOLATION OF SOP

- 9.3.1 BMM follow a "Zero Tolerance Policy" with respect to non-compliance with this SOP and/or any other SOP / guidance issued by BMM and its constituent Entities.
- 9.3.2 Violation of this SOP is subject to appropriate disciplinary actions which may include but not limited to termination of employment. This

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determination will be based on the facts and circumstances of each situation. Any accused of violation of this SOP will be given an opportunity to present their case prior to any determination of appropriate disciplinary actions. Violation of this SOP may also be subject to substantial civil damages, criminal fines and prison terms.

- 9.3.3 Each employee is responsible for ensuring that their conduct and the conduct of anyone reporting to them shall fully comply with this SOP. Compliances, both personal and by subordinates, will be a factor in periodic performance appraisals.

9.4 DISCLAIMER

- 9.4.1 This SOP issued by BMM is for internal compliance and does not create, nor shall it be construed to create, directly or implicitly, any rights, duties or obligations of BMM to any person, body or legal Entity.
- 9.4.2 This document and its contents are the copyright property of BMM. The release of this document to any third party outside BMM is strictly prohibited without prior consent.

10. REVIEW AND APPROVAL

Content Owner(s)

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**This document was approved (in sequence) by the individuals above
using electronic approval in our Document Control System.**

Final approval status: **Draft**

Approvals were done electronically.

11. ANNEXURES / APPENDIX

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