

Project: HM-1251 Komatsu WA900.doc

Montda1

Image Courtesy of Komatsu



The information presented in this application engineering document seeks to deliver the end user with:

Improved profitability of the mining operation by achieving:

- Greater safety
- Lower Maintenance cost
- Greater productivity
- Predictable service
- Better Value



The applications engineering office outlines areas of great concern and hopes to present a practical solution.

Great emphasis was placed on the lighting levels, increased task lighting and uniform illumination with soft transition from light to dark.

A light loss factor of 0.72 was used for this evaluation.

* Combination of lamp lumen depreciation x luminaire dirt depreciation x non recoverable light loss factors (such as ballast factors, supply voltage variations, optical factors and fixture surface depreciation).





Product Schedule

The following products have been used in this Application Engineering Report

Type / Symbol	Luminaire (product)		Part Number	Quantity	
A	AS 5000LED Close Range		HM1500WB	6 Luminaires	
В	AS 5000LED Long Range		HM1500NB	2 Luminaires	
С	DuraRAY ³ LED Beacon		HM9500ADIR	1 Luminaire	
D	DuraLED Signal Lamps Red		HM060321	2 Luminaires	
E	DuraLED Signal Lamps Amber		HM070321	2 Luminaires	
F	EuroLED Interior Lamp		2JA959950031	1 Luminaire	
G	RetroVOX Reversing Alarm		HMRA917E	1 Piece	
н	MotoVOX Forward Horn		HMFH117P	1 Piece	
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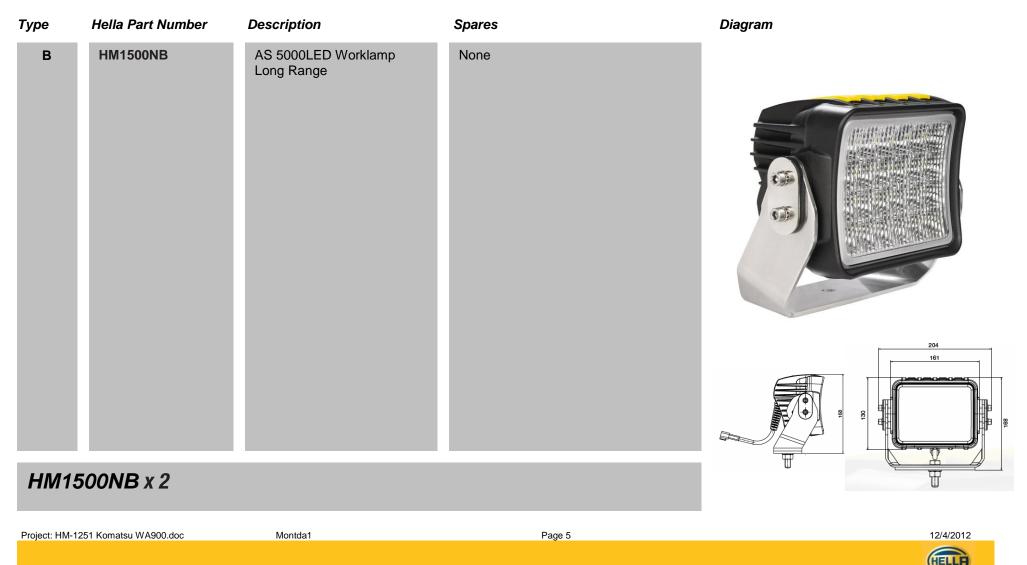
Product Information

Туре	Hella Part Number	Description	Spares	Diagram
A	HM1500WB	AS 5000LED Worklamp Close Range	None	
HM1	500WB x 6			

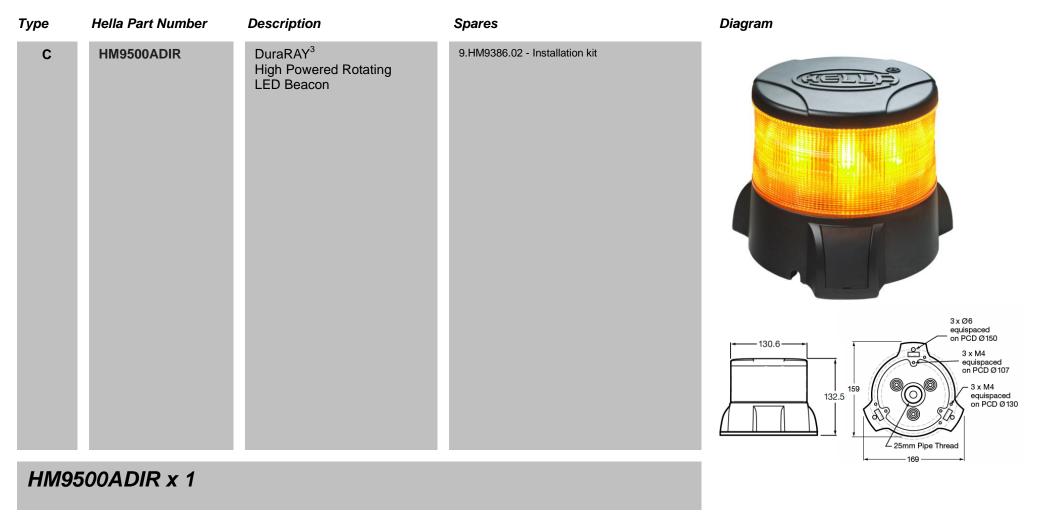
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Product Information



Product Information



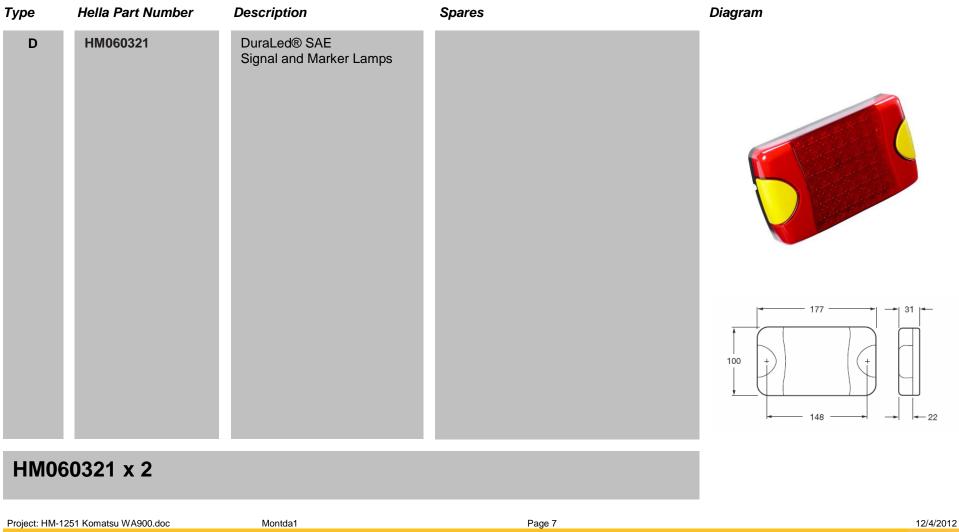
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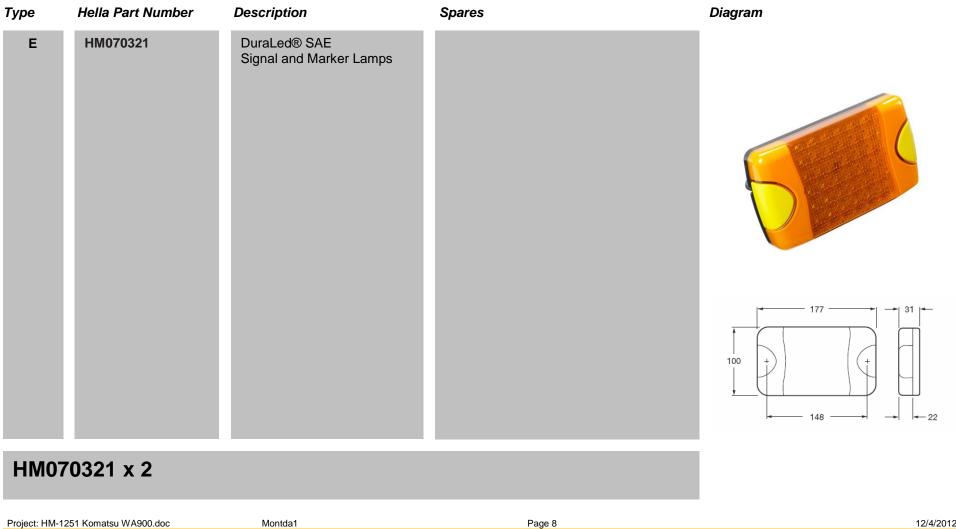
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Product Information



HELLF

Product Information



12/4/2012

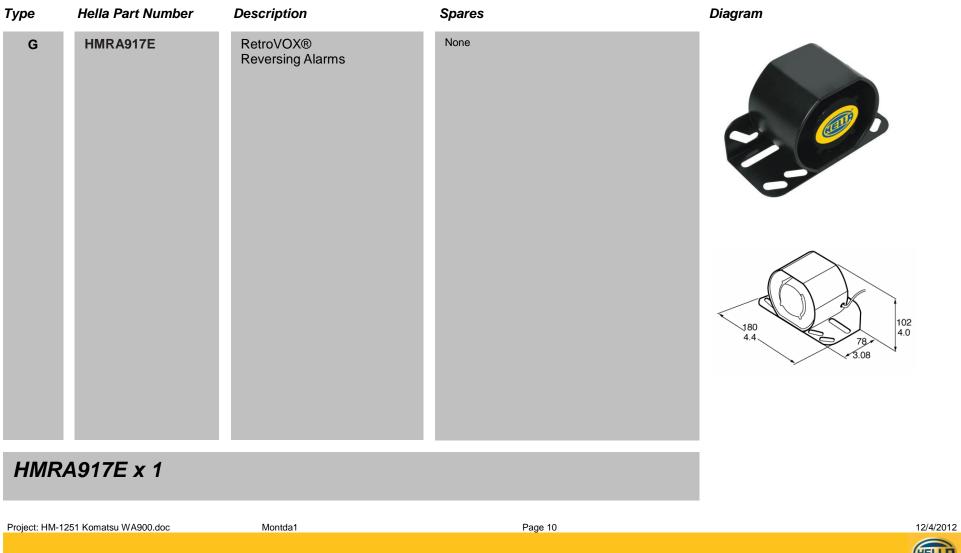
Product Information

Туре	Hella Part Number	Description	Spares	Diagram
F	2JA959950031	EuroLED® Touch M	EuroLED® Mounting Spacer (8HG959952022)	<image/>
2JA9	59950031 x 1			-+ 30 + Cable Ext

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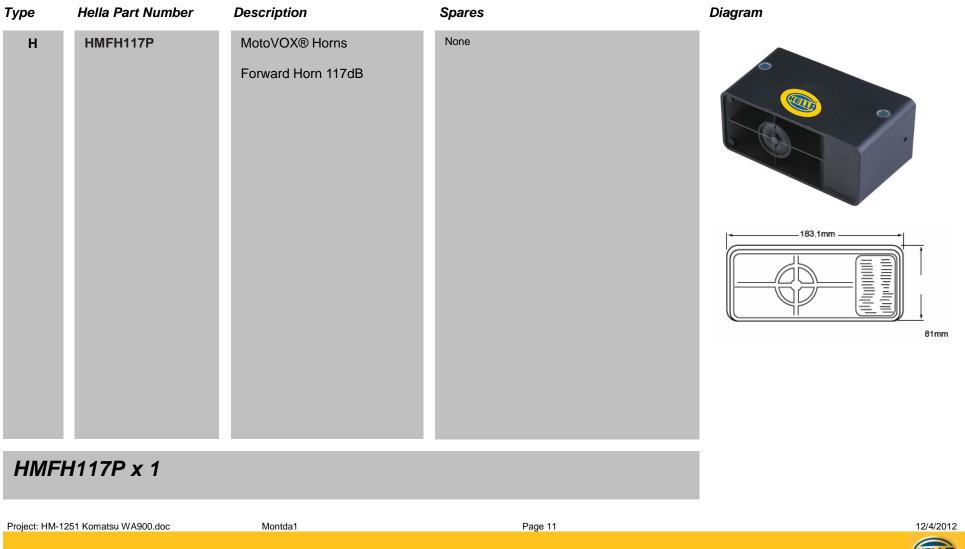


Product Information





Product Information

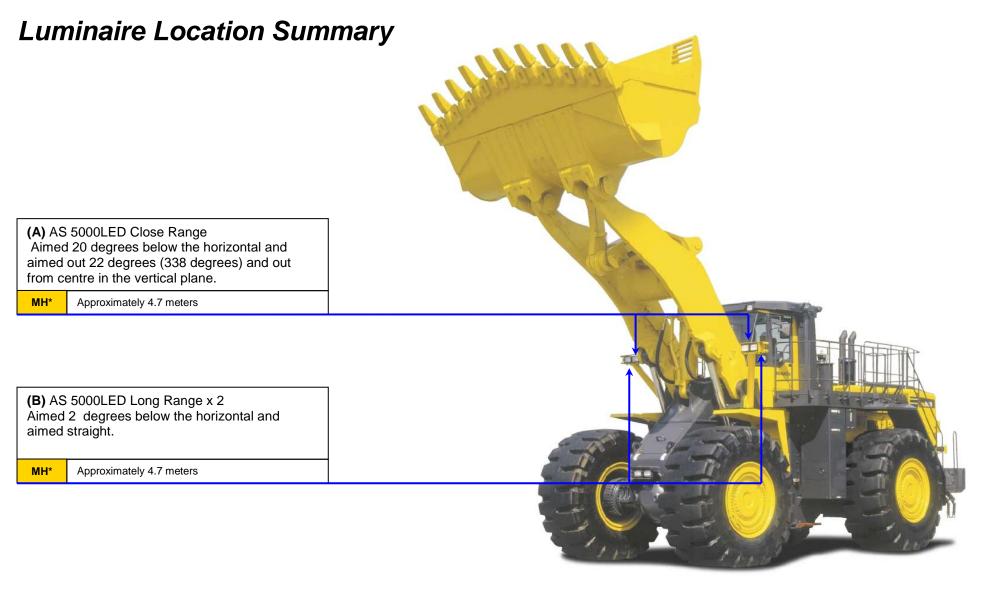




Luminaire Location Summary

Product	Туре	Description	Location
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	A A A A A B B C D D E E F G H	AS 5000LED Close Range AS 5000LED Long Range AS 5000LED Long Range DuraRAY ³ LED Beacon DuraLED Signal Lamp Red DuraLED Signal Lamp Red DuraLED Signal Lamp Amber DuraLED Signal Lamp Amber EuroLED Touch RetroVox Reversing alarm MotoVox Horn	In Front of the Machine (Headlamps) In Front of the Machine (Headlamps) Top of Cabin Facing Forewards Top of Cabin Facing Forewards Rear of Machine Facing Backwards Rear of Machine Facing Backwards In Front of the Machine (Headlamps) In Front of the Machine (Headlamps) Top of Cabin Rear of the Machine Rear of the Machine Rear of the Machine Rear of the Machine Inside Cabin User Specific Location User Specific Location
Komatsu WA900 LED Lighting Package			





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Luminaire Location Summary

(A) AS 5000LED Close Range Aimed 20 degrees below the horizontal and aimed out 55 degrees (305 degrees) and out from centre in the vertical plane.

Approximately 6.8 meters

MH*





Luminaire Location Summary

(A) AS 5000LED Close Range Orientated straight and aimed 10 degrees below the horizontal.

MH* Approximately 3.7 meters



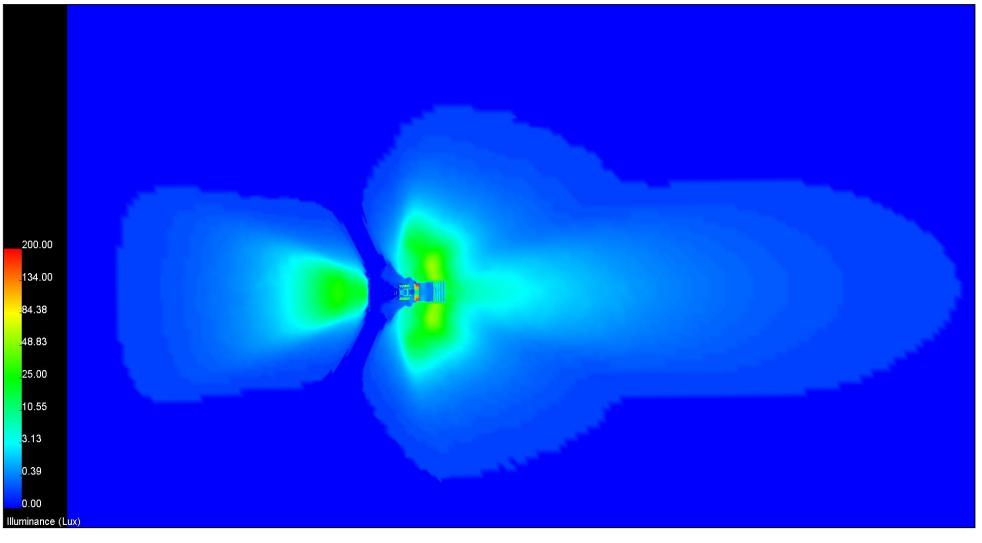
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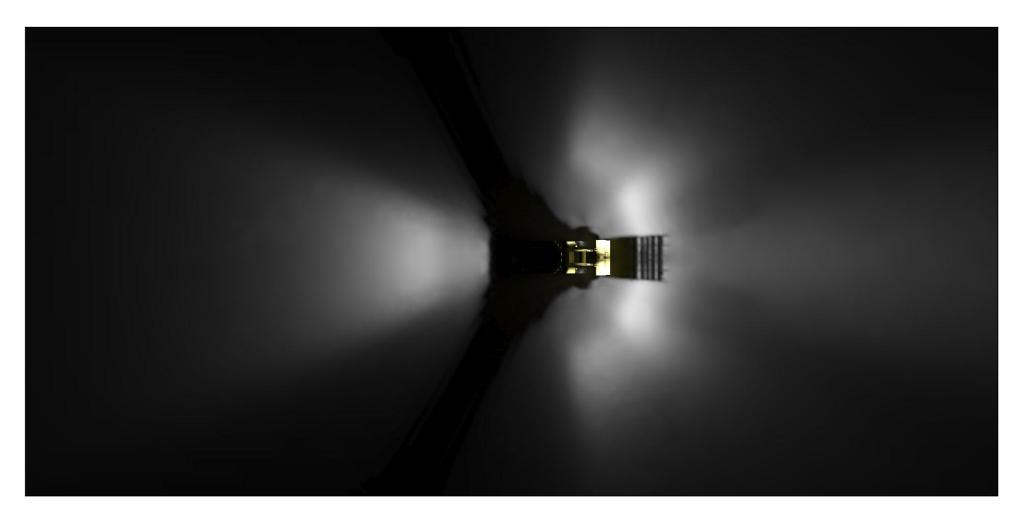
Top View – IsoLUX



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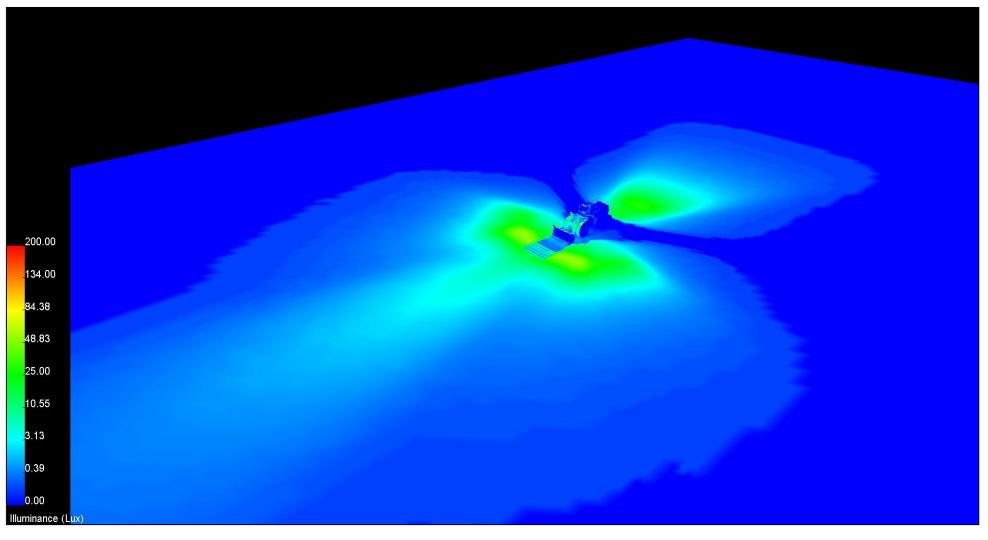


Top View – RGB





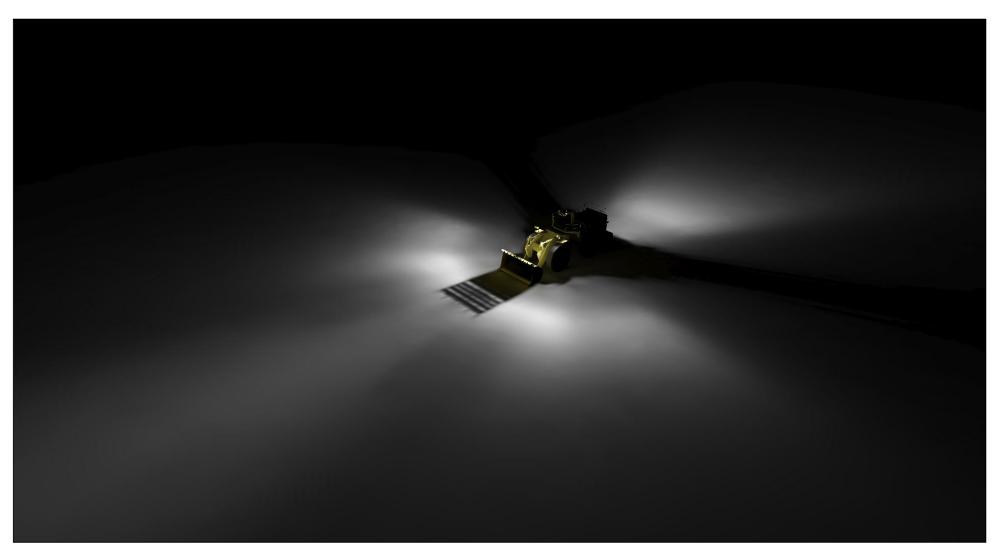
Iso View 1 – IsoLUX



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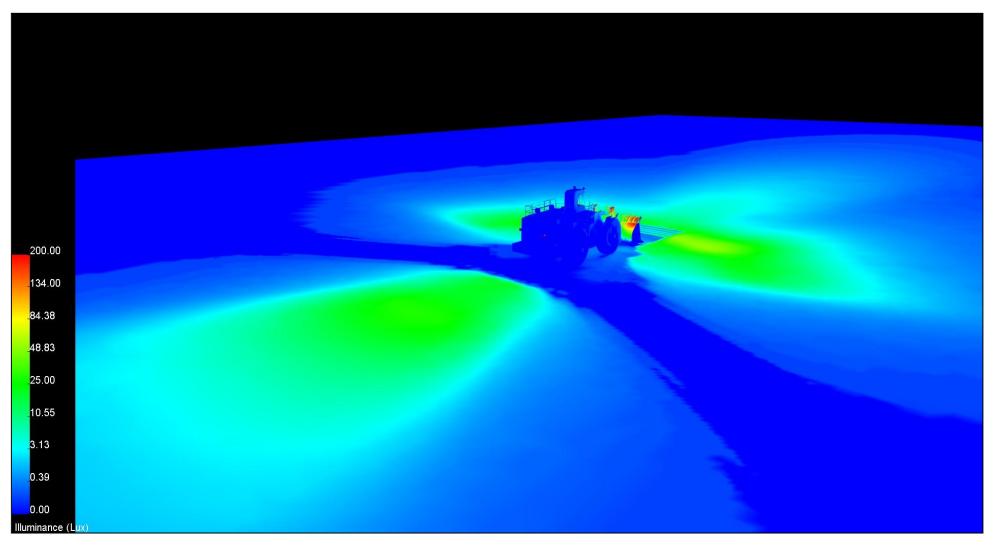
Iso View 1 – RGB







Iso View 2 – IsoLUX



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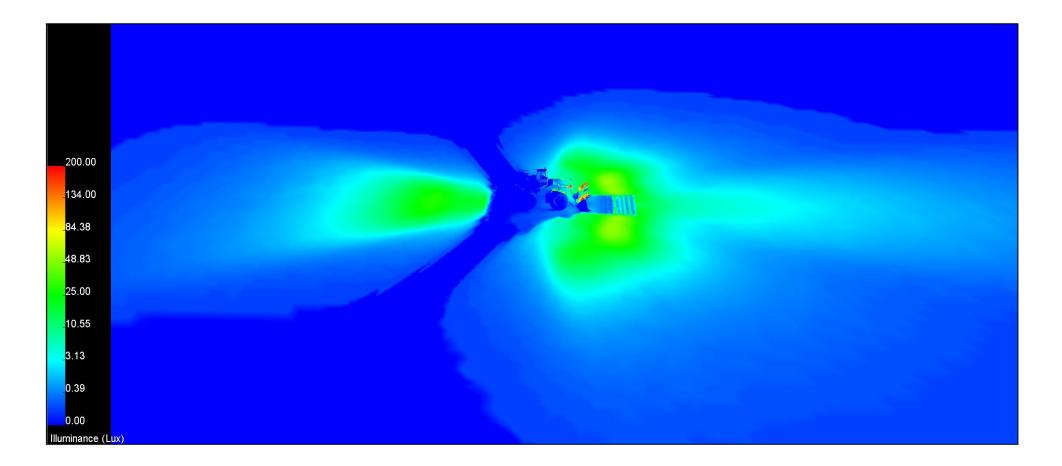


Iso View 2 – RGB



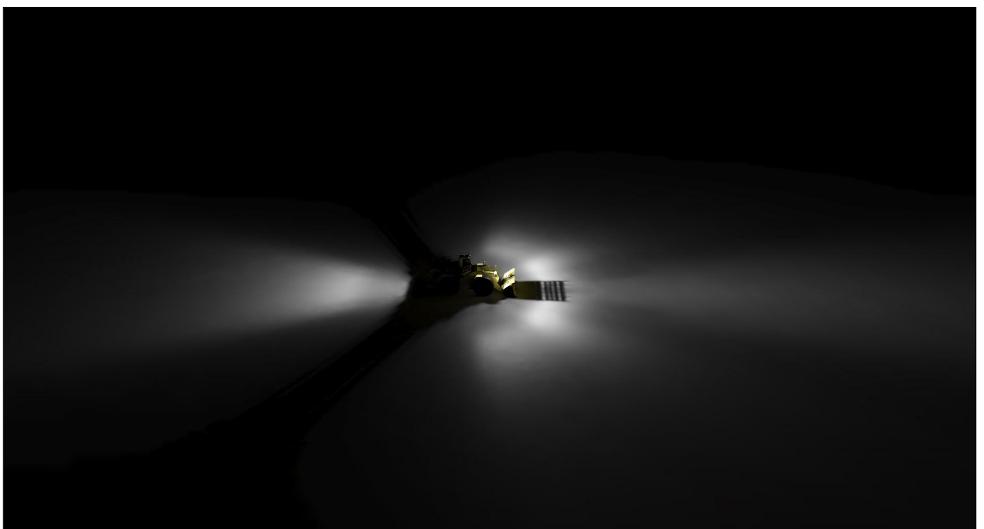


Iso View 3 – IsoLUX





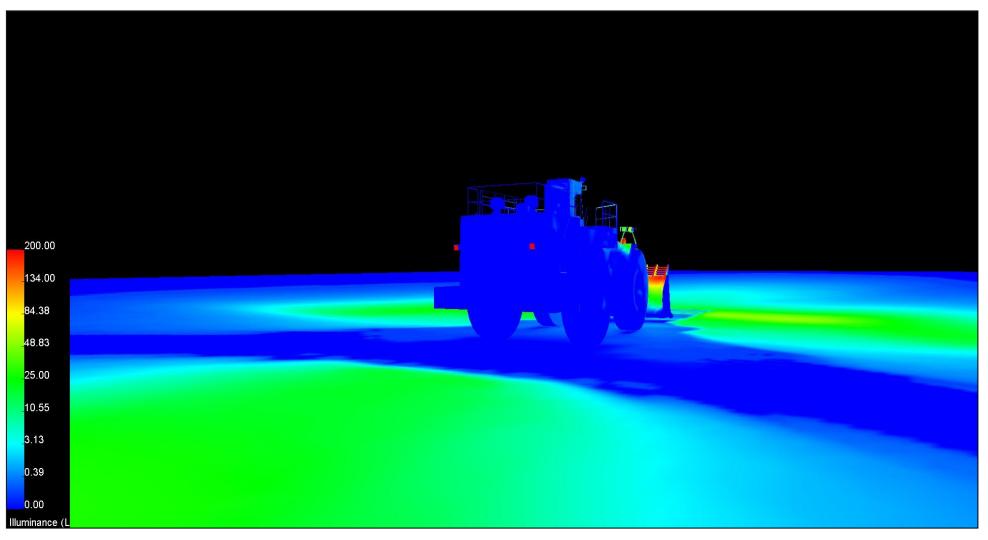
Iso View 3 – RGB







Iso View 4 – IsoLUX



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Iso View 4 – RGB



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