GRADER LIGHTING

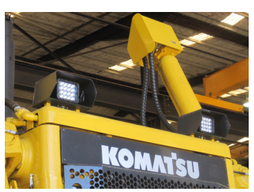
For Models : All Large Mining Class Graders

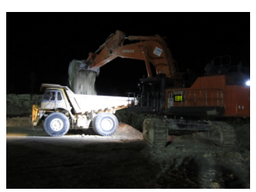
LED | LIGHTING CATALOG

LIGHTING EVOLVED
GENUINE
Vision
Global Lighting Systems
SINCE 1997
VISIONXLIGHTING.COM

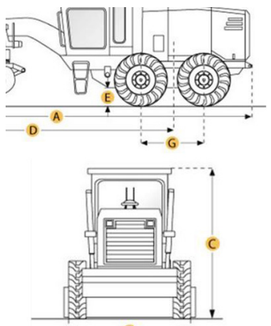
ENGINEERED LIGHTING SOLUTIONS

Vision X lighting fixtures are not merely lighting systems, they are engineered lighting solutions. They provide increased efficiency, increased safety, decreased environmental impact, and decreased costs. Vision X LED lights offer a large increase in energy efficiency over older technologies while also increasing the safety and productivity of the working environment by outputting 80% more light than the fixtures used previously.





SOLUTION PROCESS

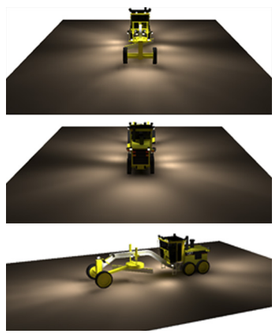


2D BLUEPRINT

Vision X Lighting begins each project with a customer provided list of machines to be retrofitted, then gathers the technical information for those machines.

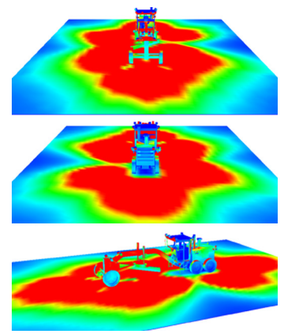
3D MODEL

A 3D model is built to the customer's specifications, then carried over into the rendering.



SIMULATION RENDER

A simulation rendering ensures the final product will meet the customer's lighting requirements.



SOLUTION

Vision X Lighting creates a complete breakdown of the customer's specific needs to meet their safety requirements.

GRADER LIGHTING FITOUT GUIDE

1 BT-9 ELLIPTICAL

FORWARD LIGHTING
BT-SERIES WORK LIGHT

Number of Fixtures : **2**
Location : **Front Frame**
Beam Pattern : **30/60° Elliptical**
Part # : **BHB07093065**

2 BT-9 FLOOD

WORK AREA LIGHTING
BT-SERIES WORK LIGHT

Number of Fixtures : **12**
Location : **Above Blade, Top & Bottom Cab, Rear Frame**
Beam Pattern : **60° Flood**
Part # : **BHB070960**

3 BT-4 FLOOD

REAR DECK LIGHTING
BT-SERIES WORK LIGHT

Number of Fixtures : **1**
Location : **Top Cab**
Beam Pattern : **Flood**
Part # : **BLB050460**

4 ID BOARD

ACCESSORY LIGHTING
2&3 DIGIT LED ID BOARDS

Number of Fixtures : **1**
Location : **Side Panel**
Colors Available : **Green, Red, Amber in 2&3 Digits**
Part # : **MIL-ID02R (Red Shown)**

5 HD BEACON

ACCESSORY LIGHTING
HEAVY DUTY BEACON

Number of Fixtures : **1**
Location : **Top of Cab**
Colors Available : **Green, Red, Blue, Amber, White**
Part # : **MIL-HDBA (Amber Shown)**

DRIVING / WORK AREA LIGHTING
Product Information

Project Name:
Date:
Type:

Application
OEM replacements will out perform the factory lighting by over 80% on the effective work area. Simple quick connect wiring allows for one time wiring and no further electrical wiring to change the fixture. 3D analysis allows for site specific aiming with our patented aiming system. Industry leading LED light output, size, weight and reliability for reduced unscheduled maintenance.

SPECIFICATIONS

Mechanical Information:

Fixture Weight:	4.98 lbs (2.26kg)
Shipping Weight:	6.05 lbs (18.17kg)
Mounting:	Single Bolt M10

Electric Specifications:

Operating Voltage:	11-65VDC
Wattage:	63W
Operating Temp:	-40°C ~ 85°C
Vibration:	60Grms
Connector:	2 Pin Deutsch

Construction:

Housing:	Die-Cast 6061 Aluminum
Finish:	Gloss Black & Gloss Yellow Bezel
Lens:	Polycarbonate Lens

LED

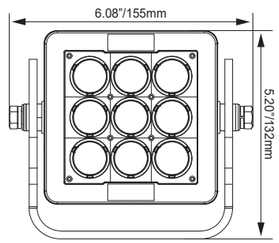
LED:	XP-L(CREE)
Amp Draw:	5.25A @ 12VDC 2.63A @ 24VDC
Lifespan:	50,000 hr

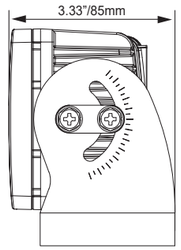
RATINGS:

EMC Emission:	(CISPR 25) Edition 3.0 (2008-03) Class 3
Ingress Protection:	IP-68, IP69k

PART #:	BEAM PATTERN
1 **BHB07093065**	Elliptical 30/65°
2 **BHB070960**	Flood 60°

2D DRAWING:





REAR DECK LIGHTING
Product Information

Project Name:
Date:
Type:

Application
OEM replacements will out perform the factory lighting by over 80% on the effective work area. Simple quick connect wiring allows for one time wiring and no further electrical wiring to change the fixture. 3D analysis allows for site specific aiming with our patented aiming system. Industry leading LED light output, size, weight and reliability for reduced unscheduled maintenance.

SPECIFICATIONS

Mechanical Information:

Fixture Weight:	1.05 lbs (0.48kg)
Shipping Weight:	2.20 lbs (1.0kg)
Mounting:	Single Bolt Trunnion

Electric Specifications:

Operating Voltage:	9-32VDC
Wattage:	20W
Operating Temp:	-40°C ~ 85°C
Vibration:	21Grms
Connector:	2 Pin Deutsch

Construction:

Housing:	Die-Cast 6061 Aluminum
Finish:	Gloss Black
Lens:	Polycarbonate Lens

LED

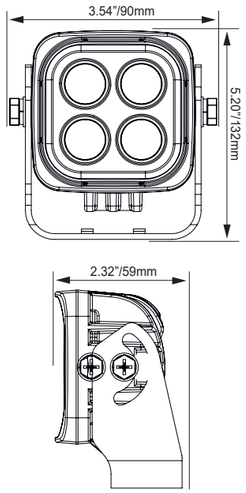
LED:	XP-L(CREE)
Amp Draw:	1.67A @ 12VDC 0.83A @ 24VDC
Lifespan:	50,000 hr

RATINGS:

EMC Emission:	(CISPR 25) Class 1
Ingress Protection:	IP-68, IP69k

PART #:	BEAM PATTERN
3 **BLB050460**	Flood 60°

2D DRAWING:



ACCESSORY LIGHTING
Product Information

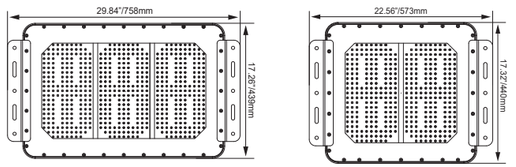
Project Name:
Date:
Type:

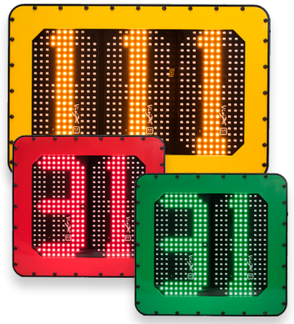
ID Board Sign Information:

- Auto Dim/Bright for Day and Night time Operation
- Available in 2&3 Digit Models
- Red, Yellow, or Green Face Plates

Fixture Weight:	2 lbs (0.9kg)
Wattage	3Digit : 117W 2Digit : 87W
Amp Draw	3Digit : 9.75A@12V | 4.88A@24V 2Digit : 6.5A@12V | 3.25A@24V
Vibration Rating	15.6 Grms
Application	Vehicle Identification / Load Cap.

2D DRAWING:





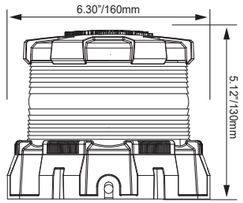
PART #:	#LEDs / COLOR
4 **MIL-ID02A**	2 Amber
MIL-ID02R	2 Red
MIL-ID02G	2 Green
MIL-ID03A	3 Amber
MIL-ID03R	3 Red
MIL-ID03G	3 Green

Heavy Duty Beacon Information:

- Simulated Rotation or Flashing Functions
- Available in Amber, Blue, Green, Red, and White LEDs

Fixture Weight:	2.96 lbs (1.34kg)
Wattage	36W
Amp Draw	3.0A @12V | 1.5A@24V
Vibration Rating	15.6 Grms
Application	Full 360° Visibility Beacon

2D DRAWING:



PART #:	COLOR
5 **MIL-HDBA**	Amber
MIL-HDBB	Blue
MIL-HDBG	Green
MIL-HDBR	Red
MIL-HDBW	White

ENGINEERED IN THE UNITED STATES

3 YEAR WARRANTY

VISIONXUSA.COM

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