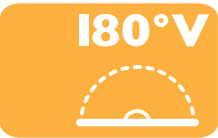
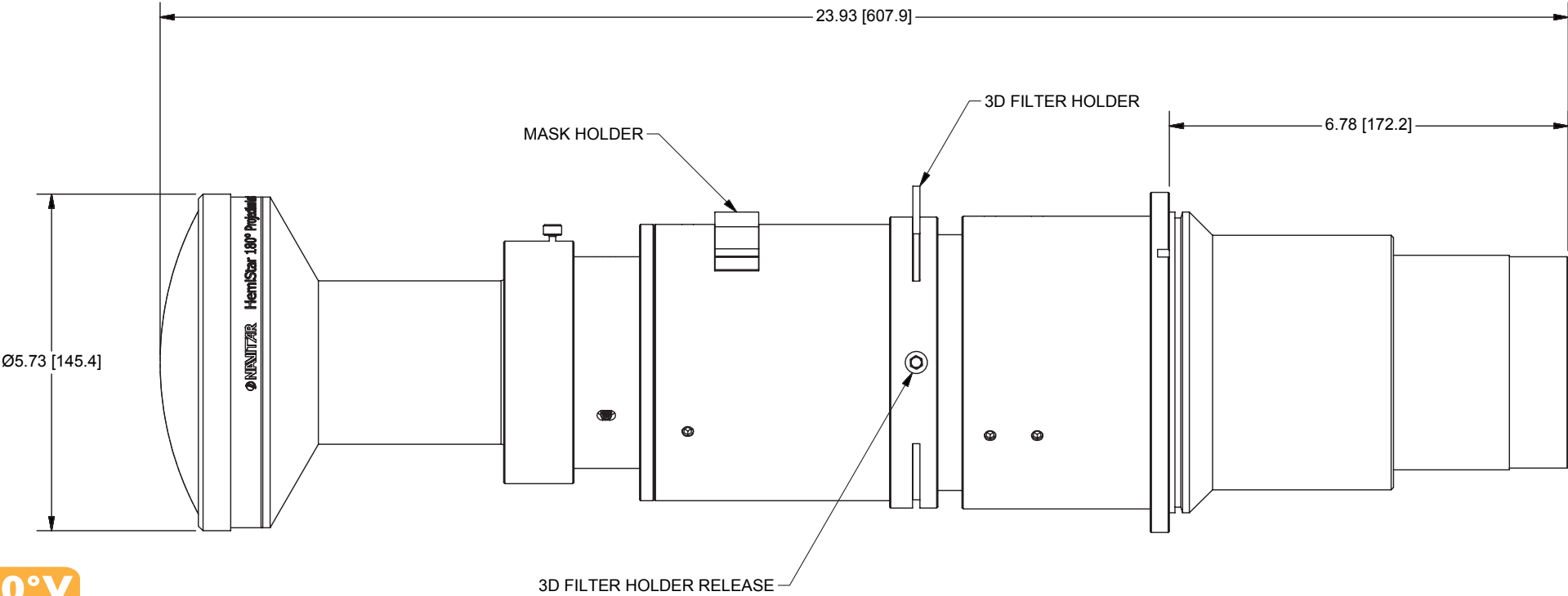


HemiStar HMR84 - High Lumen

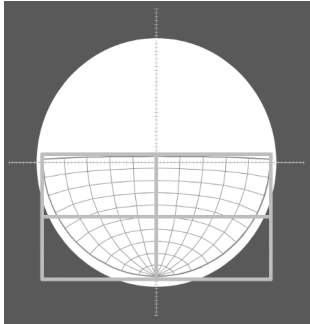
Projection Angle Chart															
Display Type		Resolution			Panel Size (mm)			# Pixels Projected			Projection Angles (°)		Shift		
Dome Lens		H	V	Pixel Pitch (µm)	H	V	Diag.	H	V	Mpixel Count	H	V	H +/-%	V +/-%	V Angle +/-°
1.38" 4K DLP 3-Chip		4096	2160	7.56	30.966	16.330	35.008	3203	2160	6.92	177.4	115.47	0	24%	31.8



HMR84 - High Lumen

Panel Usage

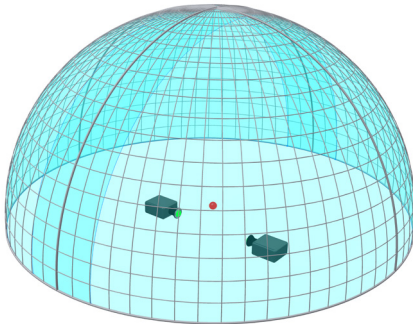
Active Image on Projector Panel



The illustration shows the active pixels used to project a hemisphere. A full hemisphere is projected as a circle of (active) pixels. This is a dual channel example of the HMR-84 projecting a 3-chip 4K 1.38" DLP panel with blend allowance.

On-Screen Projection

Active Image on Screen



The layout allows wide projection of content with a 3-chip 4K DLP device for multi-viewer attractions.

Lens Specifications

Focal Length	8.35mm	MTF Center	50% @ 66lp/mm
Image Circle	24.2mm	MTF Edge	50% @ 66lp/mm
Max Half-Angle	90°	Lateral Color R-G	<=3.5 um
F/#	F/2.5	Lateral Color B-G	<=3.0 um
Focus Range	1m – Inf.	F-Theta Distortion	< -8.0% Max
Transmittance	70%	Relative Illum.	93%
Back Focus	TI 4K DLP		

HMR-84 HL Model Numbers

Navitar Part #*	Projector	Resolution	Brightness ⁺
I-28137	Barco XDL-4K30/4K60	4K	30,000-60,000
TBA	Christie D4K3560	4K UHD	35,000
TBA	Christie Roadie HD+35K	4K UHD	35,000
I-28777	Christie Boxer 4K30	4K UHD	30,000
TBA	DP INSIGHT 4K QUAD	4K UHD	17,500
TBA	DP INSIGHT LASER 4K	4K UHD	12,000

* Part numbers vary depending on projector manufacturer and model

+ Projector brightness is stated for reference only, it is not representative a maximum lens brightness rating.

