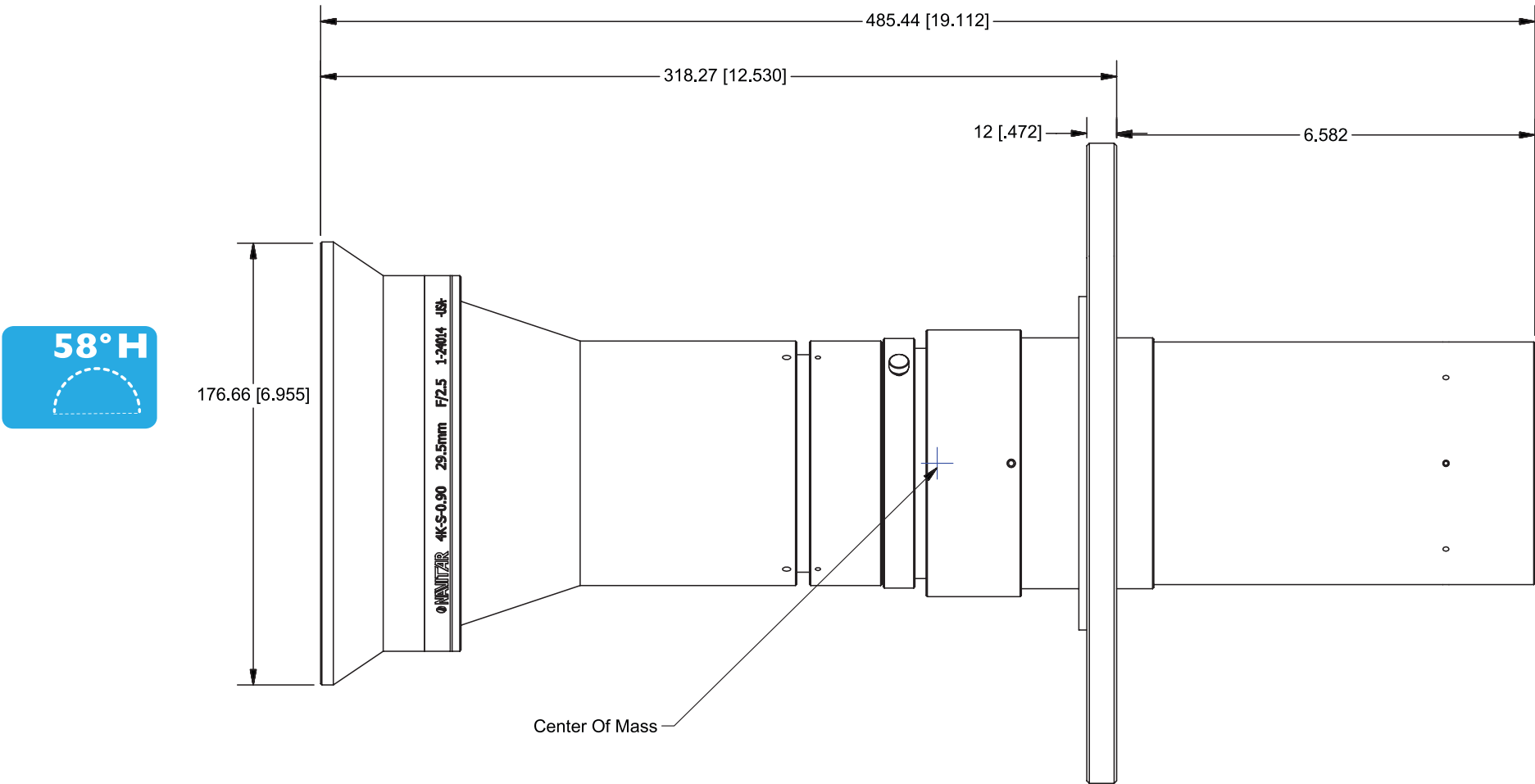


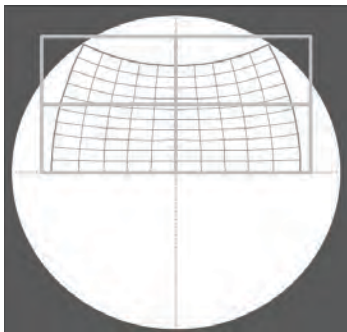
# 4K-S-0.90 Sony Wide Angle Accessory Lens

Projection Angle Chart													
		Resolution			Panel Size (mm)			Projection Angles (°) *			Throw Ratio	Shift	
		H	V	Pixel Pitch (μm)	H	V	Diag.	H	V	Diag.		H +/-%	V +/-%
Original Panel	1.48" 4K LCoS	4096	2160	8	32.768	17.280	37.045	58.4	32.7	64.6	0.89:1	9%	30%



Panel Usage

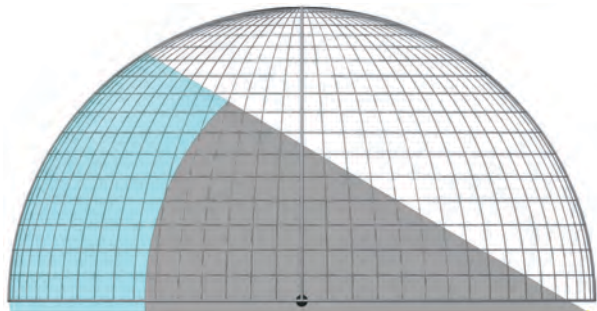
Active Image on  
Projector Panel



The illustration shows the active pixels used to project a hemisphere. A full hemisphere is projected as a circle of (active) pixels. This image is a side view showing the dome channel.

On-Screen  
Projection

Active Image on Screen



The illustration shows the projected image against a 5° azimuth-elevation grid. The projector is positioned at dome center and uniformly casts a hemispherical beam to the screen.

Lens Specifications

<b>Focal Length</b>	29.5mm	<b>MTF Center</b>	85% @ 60lp/mm
<b>Image Circle</b>	39.73mm	<b>MTF Edge</b>	52% @ 60lp/mm
<b>Max Half-Angle</b>	34.18°	<b>Lateral Color R-G</b>	<=4 um
<b>F/#</b>	F/2.5	<b>Lateral Color B-G</b>	<=4 um
<b>Focus Range</b>	2m – Inf.	<b>TV Distortion</b>	0.46%
<b>Transmittance</b>	79-89%	<b>Relative Illum.</b>	>74%

Suggested Projectors

Navitar Part #	Projector	Resolution	Lumens
I-24014	Sony SRX-T615	4096 x 2160	17,000
I-24014	Sony SRX-R515P	4096 x 2160	15,000

\*Panel size effects projection angle

