

# LEDko VariWhite +

Product code:  
F112G000A

Last update:  
13/01/2026



LEDko VariWhite HD +  
with Profile Zoom 28°-40° Optic

LEDko VariWhite HD + with Profile Zoom 28°-40° Optic

Introducing

● Designed with HD electronic and a new OLED display, this spot profile projector is the evolution of the VariWhite Series 2 LEDko and the normal HD. The HD + electronic with advanced LED controller enables a smooth dimming and it offers and higher luminous efficiency, with a color rendering index of the white range greater than 95. Very quick setup of the functions thanks to the potentiometer knob

Key Features

- VariWhiteCOB LED
- CRI >95 (CRI > 95.9 @ 3.200 K - CRI > 96.5 @ 5.600 K)  
TLCI ≥ 97.7
- CCT 2.700 K → 6.500 K
- High lumen flux and flat field
- Swappable lens tubes between 5° - 90°
- Four blade framing system, each shutter blade is adjustable for radial position and angle
- Flame-retardant technopolymer reinforced with fiberglass
- Custom color on request (optional)
- Manual (standard) or Pole Operated Pan-Tilt (Optional)

## General

● LED Source	VariWhite COB LED
● CCT Range	● ● ● ● ● 2.700 K → 6.500 K
● Color Rendition Average	CRI >95 (CRI > 95.9 @ 3.200 K - CRI > 96.5 @ 5.600 K) TLCI ≥ 97.7
● Dimming	8 or 16 bit, 6 selectable curves: Exponential, Logarithmic, Linear, Linear, Halo, Standard and S
● Dimming Smooth Selection	Fast, Slow and Very Slow
● Strobe	Electronic strobe, synchronized, random, pulse effect
● Available Optics	Swappable lens tubes between 5°-90°
● Camera flicker control/Hz range	Yes: 20.000 Hz
● Calibrated Cob	Yes
● L80 Rating (hours to 80% output)	50.000 Hours
● Pattern Projection	Yes
● Pattern Size	A or B

## Electrical

● Voltage Input	80-264 V, 50-60 Hz - Auto-sensing
● Power Consumption	220 W Maximum - 0.97 A at 230 V, 1.95 A at 115 V - cosφ: 0.98
● Power Connection	In and Out PowerCON TRUE1 Top connectors, 1.5 m (4.9 ft) PowerCon cable without power plugIn and Out
● Data Connection	In and Out DMX 5 pin locking XLR connectors

## Thermal

● Ambient Operating Temperature	0°C - +40°C (32°F - 104°F)
● Fan (controllable)	Yes, 4 different settings: Silent, Studio, Auto, DMX Regulated

## Control

● Protocols	DMX-512, RDM (Remote Device Management), Wireless (optional by LumenRadio)
● RDM configuration	Yes
● DMX Channels	5 / 2 / 1 / Sunrise / Raw / MK1 / 6 Channels
● Display	Graphic OLED with on-board selector for quick setting
● Software Upload	Through DMX with RDM Upgrade USB interface (code: AC10011A001)

## Physical

● Yoke	Manual (standard) or Pole Operate Pan-Tilt (optional)
● Materials	Flame-retardant technopolymer reinforced with fiberglass
● Framing System	Four stainless steel shutter blades in a two-plane assembly, 0.40mm (AISI 316)
● Weight	Body: 6 Kg / 13.23 lbs - With 28°-40° Optic: 8.5 Kg / 18.74 lbs
● Length	Body: 362 mm / 14.25 in - With 28°-40° Optic: 601 mm / 23.66 in
● Height	189 mm / 7.44 in - With bracket: 372 mm / 14.64 in
● Width	355 mm / 13.97 in
● IP Rating	IP20 (available IP65 LEDko Ext Series)
● Color options	Black (standard), custom color on request (optional)

## Included accessories

GKIT17 (USA) / GKIT16 (EU) BC10011A106	1.5 m power cable with PowerCON TRUE1 Top and bare ends Metal Gobo Holder
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Optics

BC10011A017	Profile Zoom 15°-35°
BC10011A019	Profile Zoom 25°-50°
BC10011A003	Profile Zoom 28°-40°
BC10011A002	Soft Profile Fresnel Zoom 14°-40°
BC10011A001	Soft Profile PC Zoom 11°-38°
BC10011A200	Front Barrel with Burnished Blades
BC10011A041	Lens Tube Profile 5°
BC10011A042	Lens Tube Profile 10°
BC10011A023	Lens Tube Profile 14°
BC10011A012	Lens Tube Profile 19°
BC10011A013	Lens Tube Profile 26°
BC10011A015	Lens Tube Profile 36°
BC10011A016	Lens Tube Profile 50°
BC10011A024	Lens Tube Profile 70°
BC10011A025	Lens Tube Profile 90°

General accessories

BC10034A003	4-Leaf Barndoor for Zoom Fresnel optic
BC10011A006	Magnetic Gobo Holder
BC10011A030	Gobo Holder for Glass Gobo
BC10011A010	Iris
BC10011A049	Gobo Holder for Iris Slot
BC10011A047	Hook Clamp, 48-51 mm (Max Load 20 Kg)
BC10011A045	Light Clamp Silver, 48-51 mm (Max 75 Kg)
BC10011A046	Light Clamp Black, 48-51 mm (Max 75 Kg)
BC10011A043	Clamp Silver Flat 13-30 mm/ø15-50 mm (Max 20 Kg)
BC10011A044	Clamp Black Flat 13-30 mm/ø15-50 mm (Max 20 Kg)
BC10011A100	Wireless Kit (LumenRadio)
BC10011A150	Pole Operated Yoke

Accessories for Profile Zoom 15°-35° and 25°-50°

BC10011A028	Donut (190.5 mm)
BC10011A027	Half Top Hat (190.5 mm)
BC10011A029	Top Hat (190.5 mm)
BC10011A040	Color Frame Holder (190.5 mm)

Accessories for Soft Profile Zoom (Fresnel, PC) and Profile Zoom 28°-40°

BC10011A036	Donut (185 mm)
BC10011A035	Half Top Hat (185 mm)
BC10011A037	Top Hat (185 mm)
ACO4204	Color Frame Holder (185 mm)

Accessories for Lens Tube

BC10011A032	Donut (159 mm)
BC10011A031	Half Top Hat (159 mm)
BC10011A033	Top Hat (159 mm)
BC10011A021	Color Frame Holder (159 mm)



LEDko VariWhite HD + Rear Panel with the new OLED Display



LEDko VariWhite HD + with Pole Operated Yoke

LEDko VariWhite HD + Pole Operated Yoke/Rear Panel

DMX Charts

**5 Channels**

- 01 → Master Dimmer
- 02 → Dimmer Fine
- 03 → White Tone
- 04 → Strobe Effect
- 05 → Special Functions

**MK1 Mode**

- 01 → Master Dimmer
- 02 → White Tone

**2 Channels**

- 01 → Master Dimmer
- 02 → White Tone

**1 Channel**

- 01 → Master Dimmer

**6 Channels Mode**

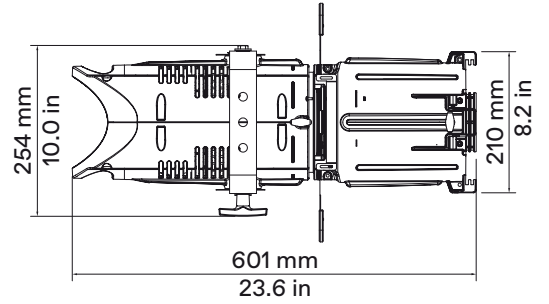
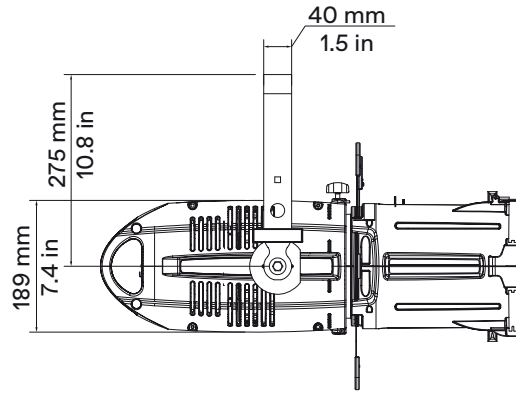
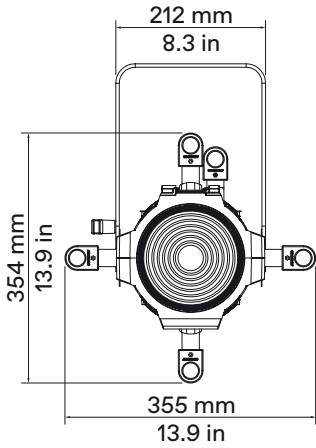
- 01 → Master Dimmer
- 02 → Dimmer Fine
- 03 → White Tone
- 04 → White Temperature Fine
- 05 → Strobe Effect
- 06 → Special Function

**Sunrise Mode**

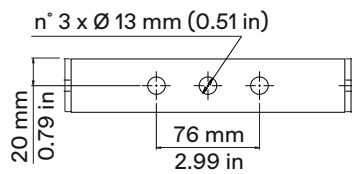
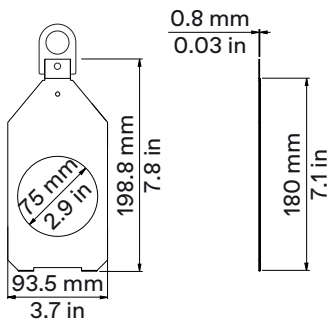
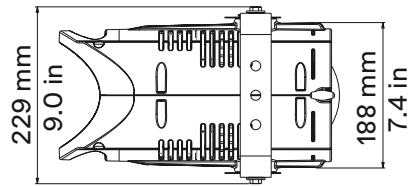
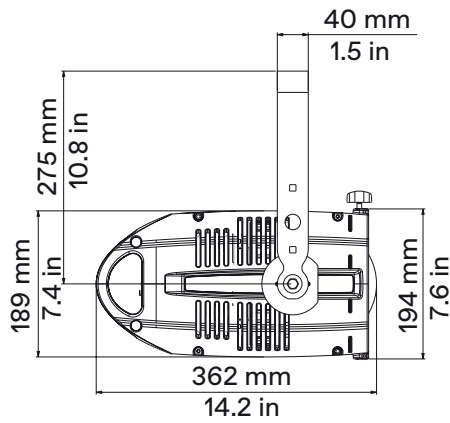
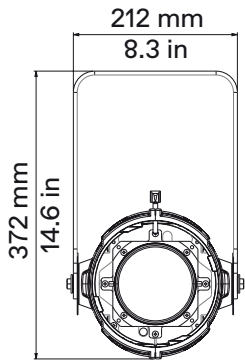
- 01 → Master Dimmer
- 02 → Dimmer Fine
- 03 → Proportional White Tone
- 04 → Step White Tone
- 05 → Special Functions

**Raw Mode**

- 01 → Warm White Led
- 02 → Warm White Led Fine
- 03 → Cold White Led
- 04 → Cold White Led Fine



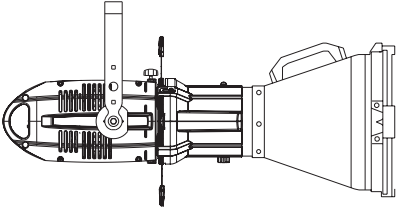
\* with Profile Zoom 28°/40° optic

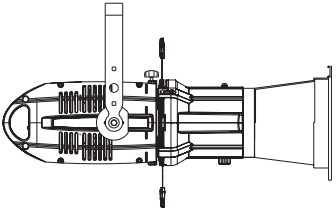


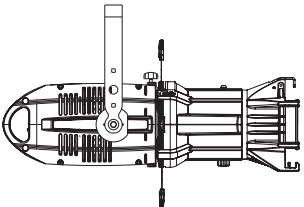
\*Standard gobo holder

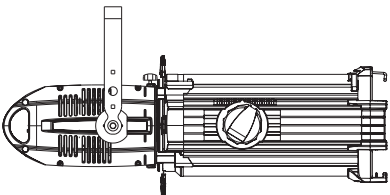
\*Yoke

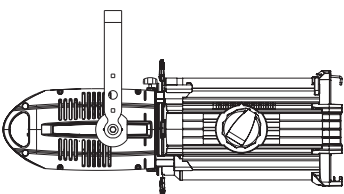
LEDko Optics dimensions and weight

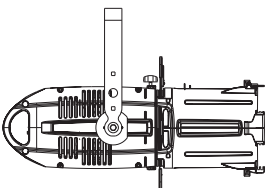
Product	Optics	Length	Weight
	Lens Tube Profile 10°	900 mm (35.4 in)	9 Kg (19.8 lbs)

Product	Optics	Length	Weight
	Lens Tube Profile 14°	750 mm (35.4 in)	9 Kg (19.8 lbs)
	Lens Tube Profile 70°	750 mm (35.4 in)	8.68 Kg (19.14 lbs)

Product	Optics	Length	Weight
	Lens Tube Profile 19°	670 mm (26.3 in)	9.15 Kg (20.17 lbs)
	Lens Tube Profile 26°	670 mm (26.3 in)	9.05 Kg (19.95 lbs)
	Lens Tube Profile 36°	670 mm (26.3 in)	9.35 Kg (20.60 lbs)
	Lens Tube Profile 50°	670 mm (26.3 in)	9.05 Kg (19.95 lbs)

Product	Optics	Length	Weight
	Profile Zoom 15°-35°	886 mm (34.9 in)	13.05 Kg (28.77 lbs)

Product	Optics	Length	Weight
	Profile Zoom 25°-50°	783 mm (30.8 in)	11.2 Kg (24.69 lbs)

Product	Optics	Length	Weight
	Profile Zoom 28°-40°	601 mm (23.7 in)	8.3 Kg (18.3 lbs)
	Soft Profile Fresnel Zoom 14°-40°	601 mm (23.7 in)	7.75 Kg (17.09 lbs)
	Soft Profile PC Zoom 11°-38°	601 mm (23.7 in)	8.25 Kg (18.19 lbs)



Theater - Municipal Theatre, Vicenza, Italy

Product	LEDko VW with Lens Tube 19°
CCT	2.700K → 6.500K
CRI	>95



Museum - Gallerie d'Italia, Milan

Product	LEDko VW
CCT	2.700K → 6.500K
CRI	>95
Optical	Lens 14° and 19°
Light Designer	Giambattista Buongiorno



Broadcast - RSI Radiotelevisione Svizzera, Switzerland

Product	LEDko VW
CCT	2.700K → 6.500K
CRI	>95



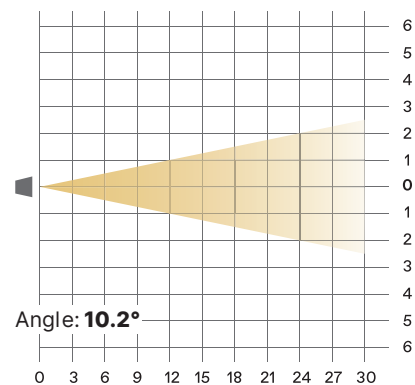
Dealership - Autostadt Audi, Wolfsburg

Product	LEDko VW
CCT	2.700K → 6.500K
CRI	>95

### LEDko VariWhite HD + - Lens Tube Profile

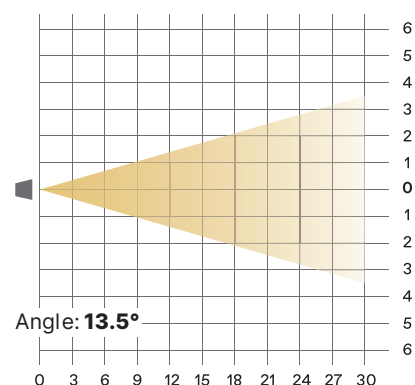
#### Optic: Lens Tube Profile 10°

Distance(m)	3	6	9	12	15	18	21	24	27	30	
lux	<b>3.200K</b>	67.816	16.954	7.535	4.239	2.713	1.884	1.384	1.060	837	678
	<b>5.600K</b>	80.545	20.136	8.949	5.034	3.222	2.237	1.644	1.259	994	805
Diameter Ø (m)	0,54	1,07	1,61	2,14	2,68	3,21	3,75	4,28	4,82	5,35	
lux	<b>3.200K</b>	CRI96.5		TLCI 98.3							
	<b>5.600K</b>	CRI96.8		TLCI 97.8							



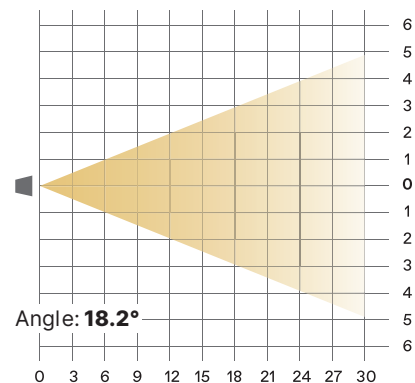
#### Optic: Lens Tube Profile 14°

Distance(m)	3	6	9	12	15	18	21	24	27	30	
lux	<b>3.200K</b>	35.362	8.840	3.929	2.210	1.414	982	722	553	437	354
	<b>5.600K</b>	41.236	10.309	4.582	2.577	1.649	1.145	842	644	509	412
Diameter Ø (m)	0,71	1,42	2,13	2,84	3,55	4,26	4,97	5,68	6,39	7,10	
lux	<b>3.200K</b>	CRI96.6		TLCI 98.1							
	<b>5.600K</b>	CRI96.8		TLCI 97.9							



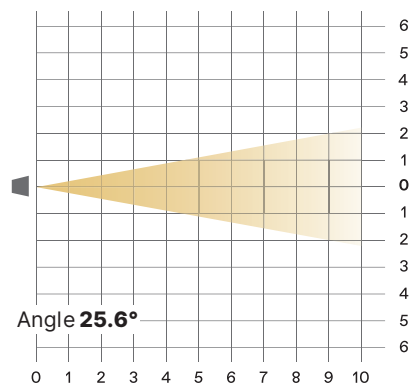
#### Optic: Lens Tube Profile 19°

Distance(m)	3	6	9	12	15	18	21	24	27	30	
lux	<b>3.200K</b>	19.801	4.950	2.200	1.238	792	550	404	309	244	198
	<b>5.600K</b>	23.972	5.993	2.664	1.498	959	666	489	375	296	240
Diameter Ø (m)	0,96	1,92	2,88	3,84	4,81	5,77	6,73	7,69	8,65	9,61	
lux	<b>3.200K</b>	CRI96.5		TLCI 98.1							
	<b>5.600K</b>	CRI96.6		TLCI 97.9							



#### Optic: Lens Tube Profile 26°

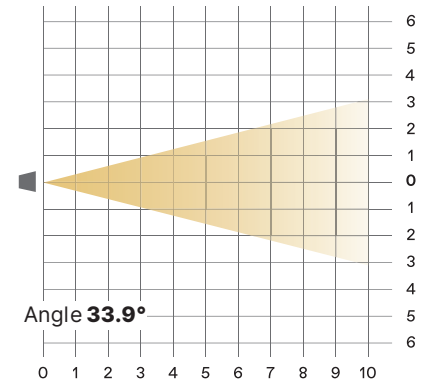
Distance(m)	1	2	3	4	5	6	7	8	9	10	
lux	<b>3.200K</b>	86485	21621	9609	5405	3459	2402	1765	1351	1068	865
	<b>5.600K</b>	115003	28751	12778	7188	4600	3195	2347	1797	1420	1150
Diameter Ø (m)	0,45	0,91	1,36	1,82	2,27	2,73	3,18	3,63	4,09	4,54	
lux	<b>3.200K</b>	CRI96.1		TLCI 98.2							
	<b>5.600K</b>	CRI96.6		TLCI 97.9							



## LEDko VariWhite HD + - Lens Tube Profile

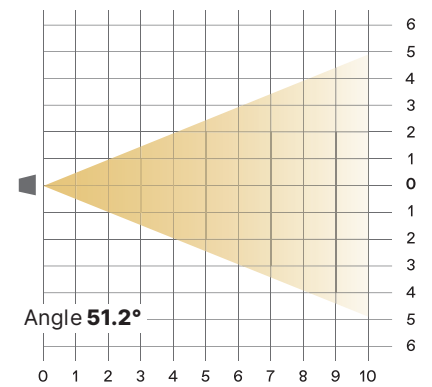
### Optic: Lens Tube Profile 36°

Distance(m)	1	2	3	4	5	6	7	8	9	10	
lux	<b>3.200K</b>	49.147	12.287	5.461	3.072	1.966	1.365	1.003	768	607	491
	<b>5.600K</b>	59.927	14.982	6.659	3.745	2.397	1.665	1.223	936	740	599
Diameter Ø (m)	0,61	1,22	1,83	2,44	3,05	3,66	4,27	4,88	5,49	6,10	
lux	<b>3.200K</b>	CRI96.2	TLCI 98.1								
	<b>5.600K</b>	CRI96.7	TLCI 97.9								



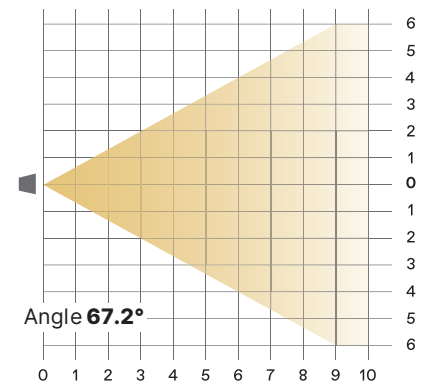
### Optic: Lens Tube Profile 50°

Distance(m)	1	2	3	4	5	6	7	8	9	10	
lux	<b>3.200K</b>	28.665	7.166	3.185	1.792	1.147	796	585	448	354	287
	<b>5.600K</b>	34.741	8.685	3.860	2.171	1.390	965	709	543	429	347
Diameter Ø (m)	0,96	1,92	2,87	3,83	4,79	5,75	6,71	7,67	8,62	9,58	
lux	<b>3.200K</b>	CRI96.4	TLCI 98.1								
	<b>5.600K</b>	CRI96.7	TLCI 97.9								



### Optic: Lens Tube Profile 70°

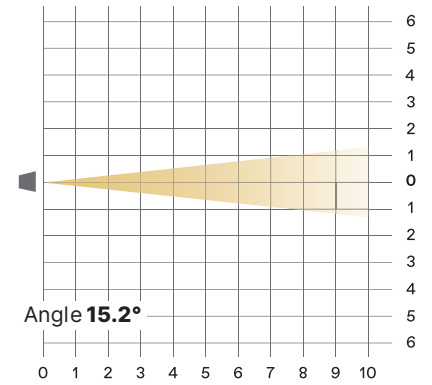
Distance(m)	1	2	3	4	5	6	7	8	9	10	
lux	<b>3.200K</b>	14.342	3.586	1.594	896	574	398	293	224	177	143
	<b>5.600K</b>	18.855	4.714	2.095	1.178	754	524	385	295	233	189
Diameter Ø (m)	1,33	2,66	3,99	5,32	6,64	7,97	9,30	10,63	11,96	13,29	
lux	<b>3.200K</b>	CRI96.4	TLCI 98.2								
	<b>5.600K</b>	CRI96.8	TLCI 97.9								



## LEDko VariWhite HD + - Profile Zoom 15°-35°

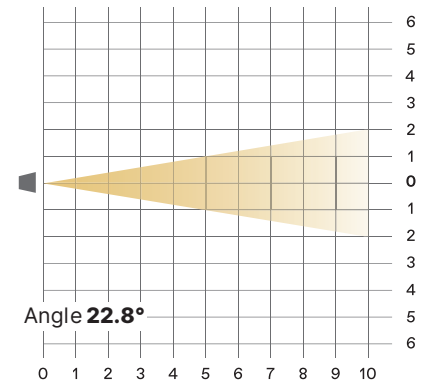
### Optic: Zoom Minimum

Distance(m)	1	2	3	4	5	6	7	8	9	10	
lux	<b>3.200K</b>	236.229	59.057	26.248	14.764	9.449	6.562	4.821	3.691	2.916	2.362
	<b>5.600K</b>	287.385	71.846	31.932	17.962	11.495	7.983	5.865	4.490	3.548	2.874
Diameter Ø (m)	0,27	0,53	0,80	1,07	1,33	1,60	1,87	2,13	2,40	2,67	
lux	<b>3.200K</b>	CRI96.4	TLCI 98.1								
	<b>5.600K</b>	CRI96.5	TLCI 97.8								



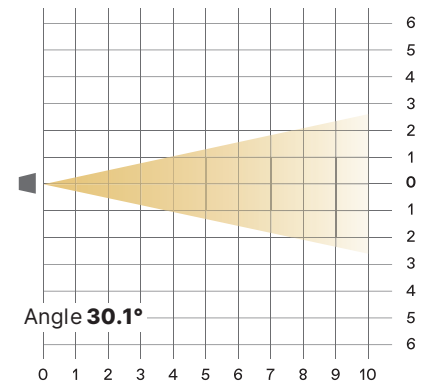
### Optic: Zoom Medium

Distance(m)	1	2	3	4	5	6	7	8	9	10	
lux	<b>3.200K</b>	113.386	28.347	12.598	1.087	4.535	3.150	2.314	1.772	1.400	1.134
	<b>5.600K</b>	125.979	31.495	13.998	7.874	5.039	3.499	2.571	1.968	1.555	1.260
Diameter Ø (m)	0,40	0,81	1,21	1,61	2,02	2,42	2,82	3,23	3,63	4,03	
lux	<b>3.200K</b>	CRI96.4	TLCI 98.2								
	<b>5.600K</b>	CRI96.8	TLCI 97.6								



### Optic: Zoom Maximum

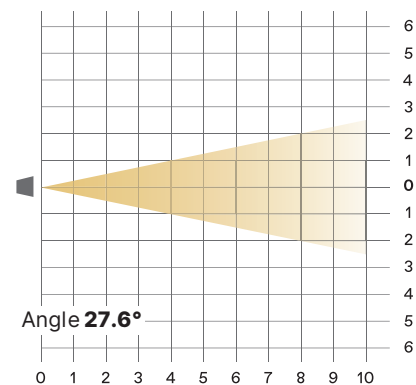
Distance(m)	1	2	3	4	5	6	7	8	9	10	
lux	<b>3.200K</b>	72.177	18.044	8.020	4.511	2.887	2.005	1.473	1.128	891	722
	<b>5.600K</b>	87.514	21.879	9.724	5.470	3.501	2.431	1.786	1.367	1.080	875
Diameter Ø (m)	0,54	1,08	1,61	2,15	2,69	3,23	3,76	4,30	4,84	5,38	
lux	<b>3.200K</b>	CRI96.3	TLCI 98.1								
	<b>5.600K</b>	CRI96.7	TLCI 97.8								



### LEDko VariWhite HD + - Profile Zoom 25°-50°

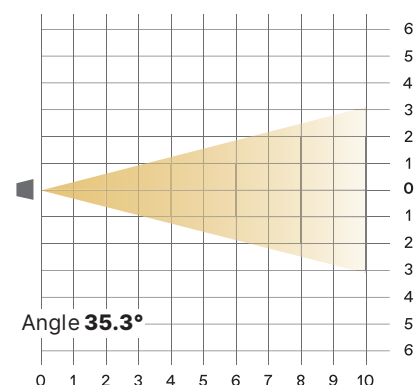
#### Optic: Zoom Minimum

Distance(m)	1	2	3	4	5	6	7	8	9	10	
lux	<b>3.200K</b>	69.188	17.297	7.688	4.324	2.768	1.922	1.412	1.081	854	692
	<b>5.600K</b>	81.683	20.421	9.076	5.105	3.267	2.269	1.667	1.276	1.008	817
Diameter Ø (m)	0,49	0,98	1,47	1,96	2,46	2,95	3,44	3,93	4,42	4,91	
lux	<b>3.200K</b>	CRI96.2 TLCI 98.2									
	<b>5.600K</b>	CRI96.7 TLCI 97.8									



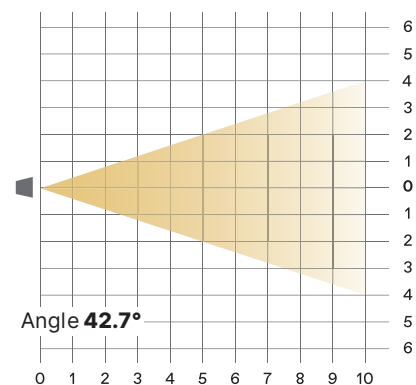
#### Optic: Zoom Medium

Distance(m)	1	2	3	4	5	6	7	8	9	10	
lux	<b>3.200K</b>	43.120	10.780	4.791	2.695	1.725	1.198	880	674	532	431
	<b>5.600K</b>	52.773	13.193	5.864	3.298	2.111	1.466	1.077	825	652	528
Diameter Ø (m)	0,64	1,27	1,91	2,55	3,18	3,82	4,45	5,09	5,73	6,36	
lux	<b>3.200K</b>	CRI95.9 TLCI 98									
	<b>5.600K</b>	CRI96.7 TLCI 97.7									



#### Optic: Zoom Maximum

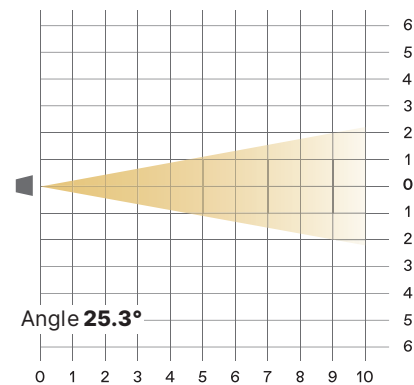
Distance(m)	1	2	3	4	5	6	7	8	9	10	
lux	<b>3.200K</b>	31066	7767	3452	1942	1243	863	634	485	384	311
	<b>5.600K</b>	38955	9739	4328	2435	1558	1082	795	609	481	396
Diameter Ø (m)	0,78	1,56	2,35	3,13	3,91	4,69	5,47	6,25	7,04	7,82	
lux	<b>3.200K</b>	CRI95.8 TLCI 98.1									
	<b>5.600K</b>	CRI96.7 TLCI 97.7									



## LEDko VariWhite HD + - Profile Zoom 28°-40°

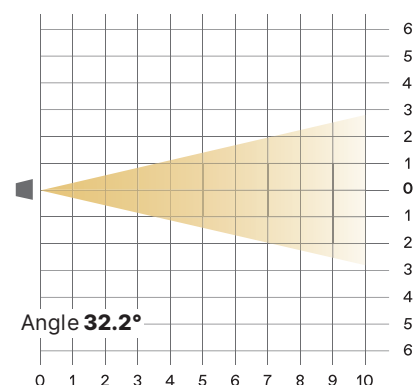
### Optic: Zoom Minimum

Distance(m)	1	2	3	4	5	6	7	8	9	10	
lux	<b>3.200K</b>	95.403	23.851	10.600	5.963	3.816	2.650	1.947	1.491	1.178	954
	<b>5.600K</b>	115.493	28.873	12.833	7.218	4.620	3.208	2.357	1.805	1.426	1.155
Diameter Ø (m)	0,45	0,90	1,35	1,80	2,24	2,69	3,14	3,59	4,04	4,49	
lux	<b>3.200K</b>	CRI96.5 TLCI 98.3									
	<b>5.600K</b>	CRI96.9 TLCI 97.9									



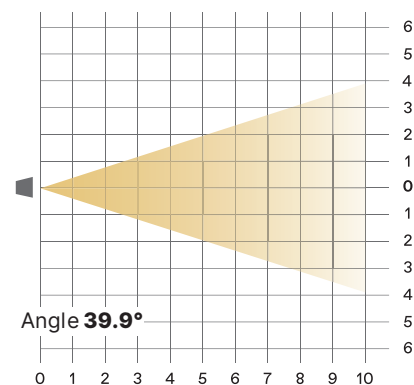
### Optic: Zoom Medium

Distance(m)	1	2	3	4	5	6	7	8	9	10	
lux	<b>3.200K</b>	63.161	15.790	7.018	3.948	2.526	1.754	1.289	987	780	632
	<b>5.600K</b>	77.028	19.257	8.559	4.814	3.081	2.140	1.572	1.204	951	770
Diameter Ø (m)	0,58	1,15	1,73	2,31	2,89	3,46	4,04	4,62	5,20	5,77	
lux	<b>3.200K</b>	CRI96.4 TLCI 98.2									
	<b>5.600K</b>	CRI96.8 TLCI 97.9									



### Optic: Zoom Maximum

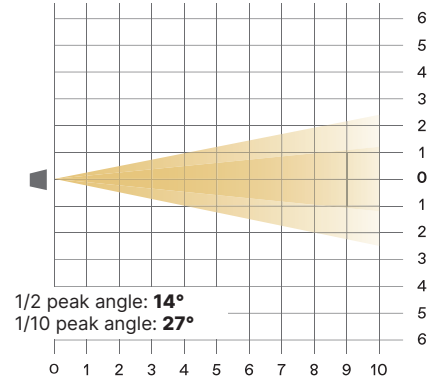
Distance(m)	1	2	3	4	5	6	7	8	9	10	
lux	<b>3.200K</b>	42287	10572	4699	2643	1691	1175	863	661	522	423
	<b>5.600K</b>	50911	12728	5657	3182	2036	1414	1039	795	628	509
Diameter Ø (m)	0,71	1,41	2,12	2,83	3,53	4,24	4,94	5,65	6,36	7,04	
lux	<b>3.200K</b>	CRI96.4 TLCI 98.2									
	<b>5.600K</b>	CRI97 TLCI 97.9									



## LEDko VariWhite HD + - Soft Profile Fresnel Zoom 14°-40°

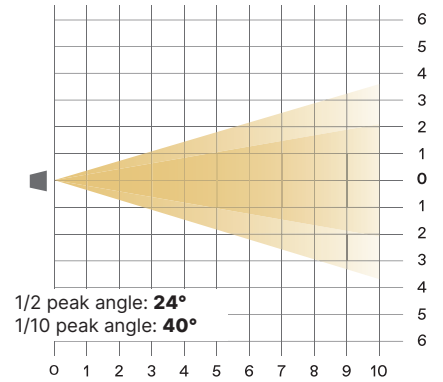
### Optic: Zoom Minimum

Distance(m)	1	2	3	4	5	6	7	8	9	10	
lux	<b>3.200K</b>	61.593	15.398	6.844	3.850	2.464	1.711	1.257	962	760	616
	<b>5.600K</b>	74.284	18.571	8.254	4.643	2.971	2.063	1.516	1.161	917	743
<b>1/2 P.A 14° Ø (m)</b>	0,25	0,49	0,74	0,98	1,23	1,47	1,72	1,96	2,21	2,46	
<b>1/10 P.A 27° Ø (m)</b>	0,48	0,96	1,44	1,92	2,40	2,88	3,36	3,84	4,32	4,80	
lux	<b>3.200K</b>	CRI96.4	TLCI 98.2								
	<b>5.600K</b>	CRI97.1	TLCI 97.7								



### Optic: Zoom Maximum

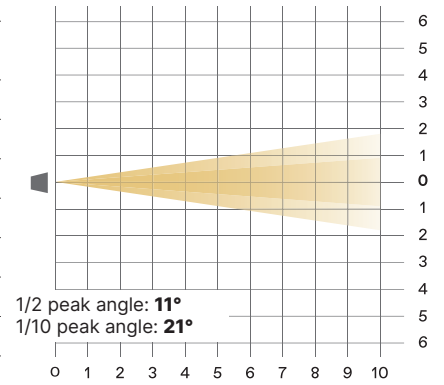
Distance(m)	1	2	3	4	5	6	7	8	9	10	
lux	<b>3.200K</b>	39.136	9.784	4.348	2.446	1.565	1.087	799	612	483	391
	<b>5.600K</b>	47.687	11.922	5.299	2.980	1.907	1.325	973	745	589	477
<b>1/2 P.A 24° Ø (m)</b>	0,43	0,85	1,28	1,70	2,13	2,55	2,98	3,40	3,83	4,25	
<b>1/10 P.A 40° Ø (m)</b>	0,73	1,46	2,18	2,91	3,64	4,37	5,10	5,82	6,55	7,28	
lux	<b>3.200K</b>	CRI96.5	TLCI 98.1								
	<b>5.600K</b>	CRI97.2	TLCI 97.8								



## LEDko VariWhite HD + - Soft Profile PC Zoom 11°-38°

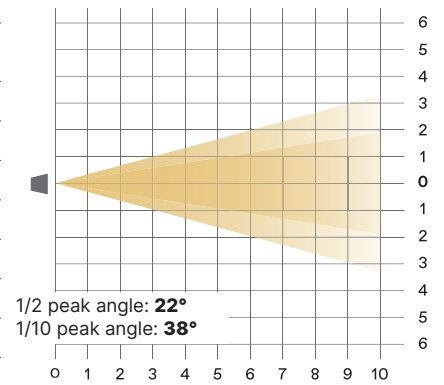
### Optic: Zoom Minimum

Distance(m)	1	2	3	4	5	6	7	8	9	10	
lux	<b>3.200K</b>	112.651	28.163	12.517	7.041	4.506	3.129	2.299	1.760	1.391	1.127
	<b>5.600K</b>	136.269	34.067	15.141	8.517	5.451	3.785	2.781	2.129	1.682	1.363
<b>1/2 P.A 11° Ø (m)</b>	0,19	0,39	0,58	0,77	0,96	1,16	1,35	1,54	1,73	1,93	
<b>1/10 P.A 21° Ø (m)</b>	0,37	0,74	1,11	1,48	1,85	2,22	2,59	2,97	3,34	3,71	
lux	<b>3.200K</b>	CRI 96.7	TLCI 98.5								
	<b>5.600K</b>	CRI 97	TLCI 97.7								



### Optic: Zoom Maximum

Distance(m)	1	2	3	4	5	6	7	8	9	10	
lux	<b>3.200K</b>	55027	13757	6114	3439	2201	1529	1123	860	679	550
	<b>5.600K</b>	68208	17052	7579	4263	2728	1895	1392	1066	842	682
<b>1/2 P.A 22° Ø (m)</b>	0,39	0,78	1,17	1,56	1,94	2,33	2,72	3,11	3,50	3,89	
<b>1/10 P.A 38° Ø (m)</b>	0,69	1,38	2,07	2,75	3,44	4,13	4,82	5,51	6,20	6,89	
lux	<b>3.200K</b>	CRI 97.1	TLCI 98.5								
	<b>5.600K</b>	CRI 96.6	TLCI 97.9								



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