



ReLite Led Kit for Arri Studio 2K

Last update:
22/04/2024



ReLite Led Kit for Arri Studio 2K

Introducing

- Fast LED retrofitting for Arri Studio 2K, available in fixed white or variable white, with light output comparable to halogen lamps

Key Features

- Easy LED retrofit designed for Arri Studio 2K
- Tungsten or Daylight COB LED
- Variable white LEDs module
- CRI > 90 (T/D versions)
- CRI > 95 (Studio / VW versions)
- Fixed White 3.200 K (T version) or 5.600 K (D version)
- CCT from 2.700 K to 6.500 K (VW version)
- Light output comparable to halogen lamp
- Smooth linear dimming
- Flicker-free ideal for TV/Broadcast installations
- Huge power savings (reduce your power consumption by over 90%) with almost no heat generated
- European Conformity certification

General	
● LED Source	White COB LED (T/D/Studio versions), Variable white LEDs module (VW version)
● CCT Range	● ● ● 3.200 K (T/T Studio version) or 5.600 K (D/D Studio version) ● ● ● Tunable white 2.700 K → 6.500 K (VW version)
● Color Rendition Average	CRI > 90 (T/D versions) CRI > 95 (T/D Studio versions) CRI > 95 (Up to 97), TLCI > 96 (VW version)
● Dimming	8 or 16 bit, 5 selectable curves: Exponential, Logarithmic, Linear, Halo and Standard
● Dimming Smooth Selection	Fast, Slow and Very Slow
● Strobe	Electronic strobe, synchronized, random, pulse effect
● Optical	Zoom range from 17° to 60°
● Camera flicker control/Hz range	Yes: 20.000 Hz
● Calibrated Cob	Yes
● L80 Rating (hours to 80% output)	50.000 Hours
Electrical	
● Voltage Input	90-240 V, 50/60 Hz, auto-sensing
● Power Consumption	210 W (Fixed White versions) 330 W (VW version)
● Power Connection	In and Out PowerCON TRUE1 Top
● Data Connection	In and Out DMX 5 pin locking XLR connectors
Thermal	
● Fan (controllable)	Fan settable through DMX (4 different settings: Silent, Studio, Auto, DMX regulated) and passive cooling thanks to the heat pipe
Control	
● Protocols	DMX-512, RDM (Remote Device Management), Wireless (optional by LumenRadio)
● RDM configuration	Yes
● DMX Channels	5 / 1 (Fixed White versions) 5 / 2 / 1 / Sunrise mode / Raw mode / MK1 mode / 6 channels mode (VW version)
● Display	Graphic OLED with on-board selector for quick setting
● Software Upload	Through DMX input (With RDM interface code AC10011A001)



ReLite Led Kit for Arri Studio 2K Display Panel

DMX Charts Fixed White version

5 Channels
01 → Master Dimmer
02 → Spare Channel
03 → Dimmer Fine
04 → Strobe Effect
05 → Special Function

1 Channels
01 → Master Dimmer

DMX Charts VariWhite version

5 Channels
01 → Master Dimmer
02 → Dimmer Fine
03 → White Tone
04 → Strobe Effect
05 → Special Function

2 Channels
01 → Master Dimmer
02 → White Tone

1 Channel
01 → Master Dimmer

Sunrise Mode
01 → Master Dimmer
02 → Dimmer Fine
03 → Proportional White Tone
04 → Step White Tone
05 → Special Function

Raw Mode
01 → Warm White Led
02 → Warm White Led Fine
03 → Cold White Led
04 → Cold White Led Fine

MK1 Mode
01 → Master Dimmer
02 → White Tone

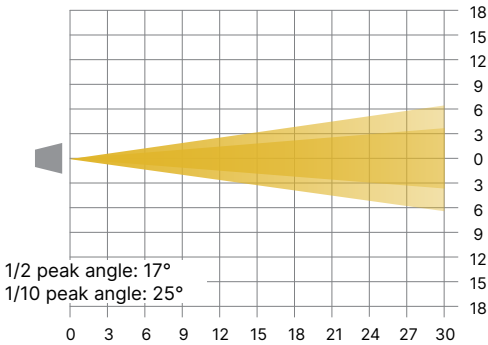
6 Channels Mode
01 → Master Dimmer
02 → Dimmer Fine
03 → White Tone
04 → White Temperature Fine
05 → Strobe Effect
06 → Special Function

ReLite Led Kit Tungsten (CRI > 90) for Arri Studio 2000

Measurements taken with fan in AUTO mode

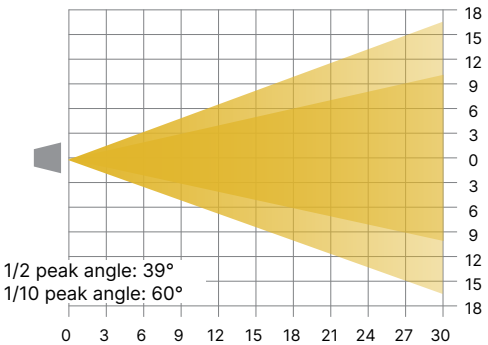
Spot: Minimum Zoom

Distance (m)	3	6	9	12	15	18	21	24	27	30	
lux	3.200 K	26983	6746	2998	1686	1079	750	551	422	333	270
1/2 P.A. Ø (m)	0.90	1.79	2.69	3.59	4.48	5.38	6.28	7.17	8.07	8.97	
1/10 P.A. Ø (m)	1.33	2.66	3.99	5.32	6.65	7.98	9.31	10.64	11.97	13.30	



Optic: Maximum Zoom

Distance (m)	3	6	9	12	15	18	21	24	27	30	
lux	3.200 K	3694	924	410	231	148	103	75	58	46	37
1/2 P.A. Ø (m)	2.12	4.25	6.37	8.50	10.62	12.75	14.87	17.00	19.12	21.25	
1/10 P.A. Ø (m)	3.46	6.93	10.39	13.86	17.32	20.78	24.25	27.71	31.18	34.64	

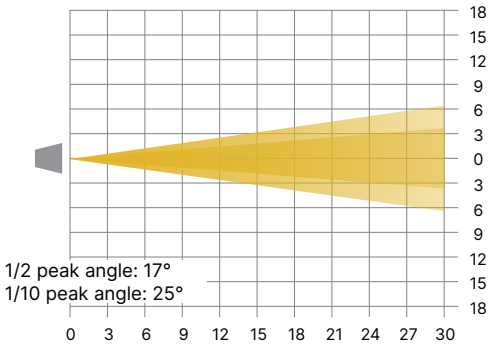


ReLite Led Kit Tungsten Studio (CRI > 95) for Arri Studio 2000

Measurements taken with fan in AUTO mode

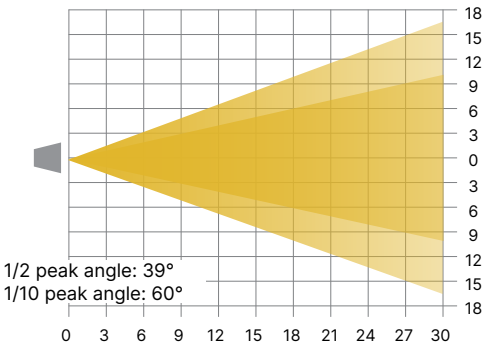
Spot: Minimum Zoom

Distance (m)	3	6	9	12	15	18	21	24	27	30	
lux	3.200 K	25669	6417	2852	1604	1027	713	524	401	317	257
1/2 P.A. Ø (m)	0.90	1.79	2.69	3.59	4.48	5.38	6.28	7.17	8.07	8.97	
1/10 P.A. Ø (m)	1.33	2.66	3.99	5.32	6.65	7.98	9.31	10.64	11.97	13.30	



Optic: Maximum Zoom

Distance (m)	3	6	9	12	15	18	21	24	27	30	
lux	3.200 K	3225	806	358	202	129	90	66	50	40	32
1/2 P.A. Ø (m)	2.12	4.25	6.37	8.50	10.62	12.75	14.87	17.00	19.12	21.25	
1/10 P.A. Ø (m)	3.46	6.93	10.39	13.86	17.32	20.78	24.25	27.71	31.18	34.64	

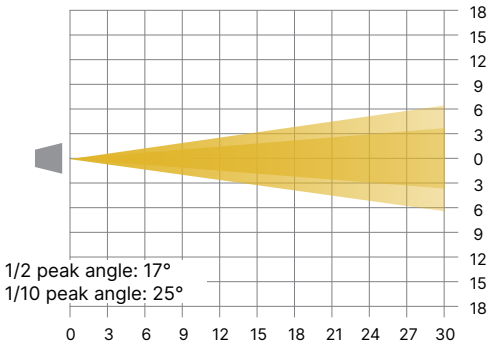


ReLite Led Kit Daylight (CRI > 90) for Arri Studio 2000

Measurements taken with fan in AUTO mode

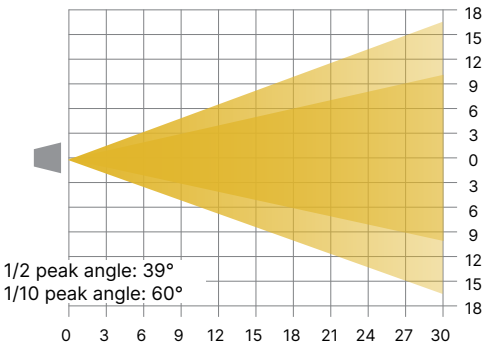
Spot: Minimum Zoom

Distance (m)		3	6	9	12	15	18	21	24	27	30
lux	5.600 K	31272	7818	3475	1955	1251	869	638	489	386	313
1/2 P.A. Ø (m)		0.90	1.79	2.69	3.59	4.48	5.38	6.28	7.17	8.07	8.97
1/10 P.A. Ø (m)		1.33	2.66	3.99	5.32	6.65	7.98	9.31	10.64	11.97	13.30



Optic: Maximum Zoom

Distance (m)		3	6	9	12	15	18	21	24	27	30
lux	5.600 K	4058	1015	451	254	162	113	83	63	50	41
1/2 P.A. Ø (m)		2.12	4.25	6.37	8.50	10.62	12.75	14.87	17.00	19.12	21.25
1/10 P.A. Ø (m)		3.46	6.93	10.39	13.86	17.32	20.78	24.25	27.71	31.18	34.64

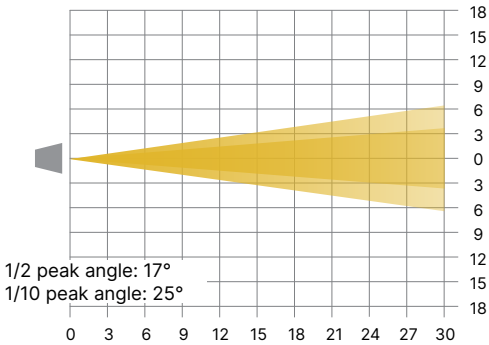


ReLite Led Kit Daylight Studio (CRI > 95) for Arri Studio 2000

Measurements taken with fan in AUTO mode

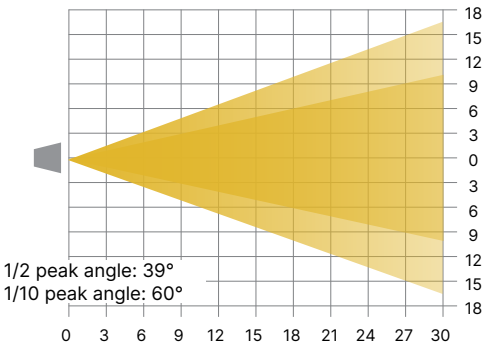
Spot: Minimum Zoom

Distance (m)		3	6	9	12	15	18	21	24	27	30
lux	5.600 K	26414	6604	2935	1651	1057	734	539	413	326	264
1/2 P.A. Ø (m)		0.90	1.79	2.69	3.59	4.48	5.38	6.28	7.17	8.07	8.97
1/10 P.A. Ø (m)		1.33	2.66	3.99	5.32	6.65	7.98	9.31	10.64	11.97	13.30



Optic: Maximum Zoom

Distance (m)		3	6	9	12	15	18	21	24	27	30
lux	5.600 K	3586	897	398	224	143	100	73	56	44	36
1/2 P.A. Ø (m)		2.12	4.25	6.37	8.50	10.62	12.75	14.87	17.00	19.12	21.25
1/10 P.A. Ø (m)		3.46	6.93	10.39	13.86	17.32	20.78	24.25	27.71	31.18	34.64

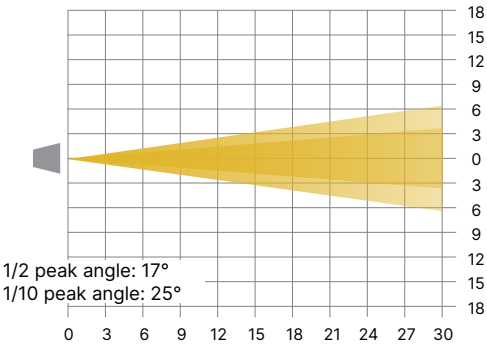


ReLite Led Kit VariWhite (CRI > 95) for Arri Studio 2000

Measurements taken with fan in AUTO mode

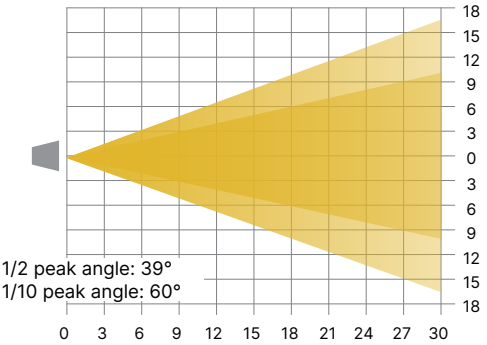
Spot: Minimum Zoom

Distance (m)		3	6	9	12	15	18	21	24	27	30
lux	3.200 K	15653	3913	1739	978	626	435	319	245	193	157
	5.600 K	22258	5565	2473	1391	890	618	454	348	275	223
1/2 P.A. Ø (m)		0.90	1.79	2.69	3.59	4.48	5.38	6.28	7.17	8.07	8.97
1/10 P.A. Ø (m)		1.33	2.66	3.99	5.32	6.65	7.98	9.31	10.64	11.97	13.30



Optic: Maximum Zoom

Distance (m)		3	6	9	12	15	18	21	24	27	30
lux	3.200 K	3411	853	379	213	136	95	70	53	42	34
	5.600 K	4728	1182	525	296	289	131	96	74	58	47
1/2 P.A. Ø (m)		2.12	4.25	6.37	8.50	10.62	12.75	14.87	17.00	19.12	21.25
1/10 P.A. Ø (m)		3.46	6.93	10.39	13.86	17.32	20.78	24.25	27.71	31.18	34.64



Spot: **Minimum Zoom**

Distance (m)		1	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	10
	3.200 K	Moderate										Low								
	5.600 K	Moderate																		Low

3.200 K @ 4.5 mt.

BLUE HAZARD		A	MODE		
Eb	w/m ²	1.07312			
Kb,v	w/lm	0.00035			
BL%	%	13.21			
RG		Moderate			
R G	Definition	Tmax(s)			
RG0	Exempt	>10000 sec			
RG1	Low	>100~10000 sec			
RG2	Moderate	0.25~100 sec			
RG3	Hight	< 0.25 sec			

5.600 K @ 4.5 mt.

BLUE HAZARD		A	MODE		
Eb	w/m ²	3.28650			
Kb,v	w/lm	0.00076			
BL%	%	28.03			
RG		Moderate			
R G	Definition	Tmax(s)			
RG0	Exempt	>10000 sec			
RG1	Low	>100~10000 sec			
RG2	Moderate	0.25~100 sec			
RG3	Hight	< 0.25 sec			

Flood: **Maximum Zoom**

Distance (m)		1	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	10
	3.200 K	Moderate				Low														
	5.600 K	Moderate									Low									

3.200 K @ 4.5 mt.

BLUE HAZARD		A	MODE		
Eb	w/m ²	0.23182			
Kb,v	w/lm	0.00036			
BL%	%	13.48			
RG		Low			
R G	Definition	Tmax(s)			
RG0	Exempt	>10000 sec			
RG1	Low	>100~10000 sec			
RG2	Moderate	0.25~100 sec			
RG3	Hight	< 0.25 sec			

5.600 K @ 4.5 mt.

BLUE HAZARD		A	MODE		
Eb	w/m ²	0.70632			
Kb,v	w/lm	0.00078			
BL%	%	28.33			
RG		Low			
R G	Definition	Tmax(s)			
RG0	Exempt	>10000 sec			
RG1	Low	>100~10000 sec			
RG2	Moderate	0.25~100 sec			
RG3	Hight	< 0.25 sec			

Data Set	Sample Size	Failures Observed	Test Interval	Test Duration	α	β	TM-21 Lifetime	
							L70	L90
1	11	0	1000h	10000h	2.5465E-06	0.9998	>55000	41000
2	11	0	1000h	10000h	4.6998E-06	0.9973	>55000	22000

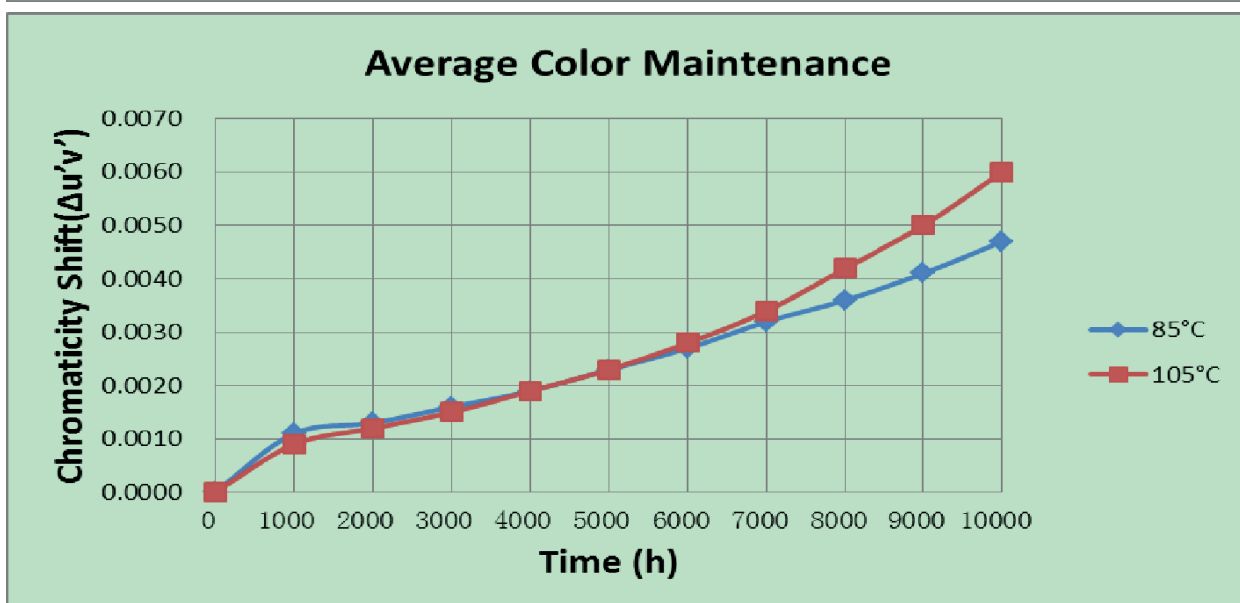
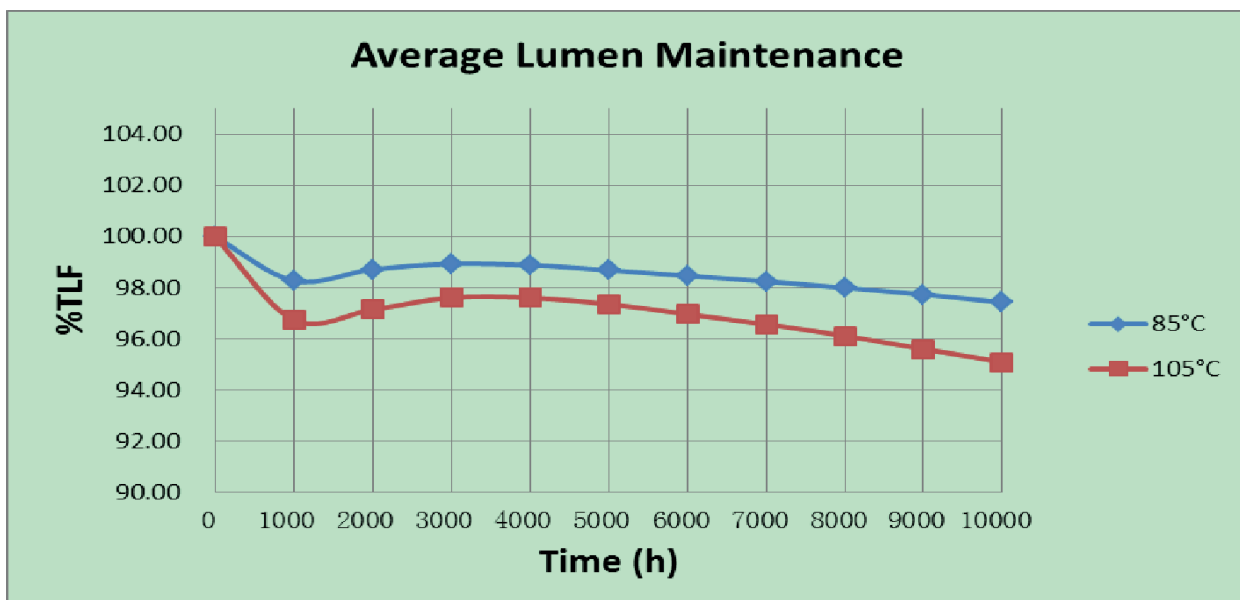
Average Lumen Maintenance (Percentage of Initial Luminous Flux)

Data Set	1000h	2000h	3000h	4000h	5000h	6000h	7000h	8000h	9000h	10000h
1	98.27	98.71	98.93	98.88	98.68	98.46	98.24	97.99	97.73	97.42
2	96.74	97.14	97.61	97.60	97.35	96.96	96.56	96.11	95.60	95.09

Average Chromaticity Shift

Data Set	1000h	2000h	3000h	4000h	5000h	6000h	7000h	8000h	9000h	10000h
1	0.0011	0.0013	0.0016	0.0019	0.0023	0.0027	0.0032	0.0036	0.0041	0.0047
2	0.0009	0.0012	0.0015	0.0019	0.0023	0.0028	0.0034	0.0042	0.0050	0.0060

Average Lumen Maintenance and Chromaticity Shift VS. Time



● Coemar Lighting S.r.l.

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