

LEDko FullSpectrum 6 HD-R

Product code:
F114U000A

Last update:
03/05/2024



LEDko FullSpectrum 6 HD-R
with Profile Zoom 28°-40° Optic

LEDko FullSpectrum 6 HD-R with 28°-40° optic

Introducing

● Designed with HD electronic and a new OLED display, this spot profile projector is the evolution of the FS6 HD. The HD + electronic with advanced LED controller enables a smooth dimming and it offers a 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

- Red, Green, Blue, Cyan, Lime, Amber light source, 20 bit color mixing
- Color mixing with hue and saturation control
- Green-Magenta adjustment
- High CRI > 95
- CCT from 2.700 K to 10.000 K (through DMX Chart) or up to 20.000 K (through Display)
- High lumen flux and flat field
- Swappable lens tubes between 5°-90°
- Soft profiling thanks to Fresnel and PC optics (Coemar patent)
- 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	RGBCLA COB LED (Red, Green, Blue, Cyan, Lime, Amber) - Color mixing with hue and saturation control
● CCT Range	●●●●● 2.700 K → 20.000 K
● Color Rendition Average	CRI > 95, TLCI > 95
● Luminous flux	Lens Tube 14°: 5.644 lm (3.200 K), 6.476 lm (5.600 K) Lens Tube 19°: 4.391 lm (3.200 K), 4.928 lm (5.600 K) Lens Tube 26°: 4.654 lm (3.200 K), 5.429 lm (5.600 K) Lens Tube 36°: 4.668 lm (3.200 K), 5.981 lm (5.600 K) Lens Tube 50°: 5.714 lm (3.200 K), 6.707 lm (5.600 K)
● Green-Magenta adjustment	Continuously adjustable from full minus-green to full plus-green
● 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
● 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 - 1.06 A at 230 V, 2.13 A at 115 V - cosφ: 0.9
● Power Connection	In and Out PowerCON TRUE1 Top connectors, 1.5 m (4.9 ft) PowerCon cable without power plug
● Data Connection	In and Out DMX 5 pin locking XLR connectors
Thermal	
● Ambient Operating Temperature	-10°C ~ +40°C (14°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	16 / 7 / 1 / Studio / RGB / Fine RGB / Sunrise Mode
● Display	Graphic OLED with on-board selector for quick setting
● Software upload	Through DMX input (With RDM interface code AC10011A001)
Physical	
● Yoke	Manual (standard) or Pole Operated 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/13.2 lbs - With 28°-40° Optic: 8.5 Kg/18.7 lbs
● Weight with Front Barrel	7.2 Kg/ 15.9 lbs
● Length	Body: 362 mm/14.2 in - With 28°-40° Optic: 601 mm/14.2 in
● Height	189 mm/7.4 in - With bracket: 372 mm/14.6 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)	1.5 m power cable with PowerCON TRUE1 Top and bare ends
BC10011A106	Metal Gobo Holder

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°
BC10011A000	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 FullSpectrum 6 HD-R Rear Panel
with the new OLED Display



LEDko FullSpectrum 6 HD+ with
Pole Operated Yoke

LEDko FullSpectrum 6 HD-R Pole Operated Yoke/Rear Panel

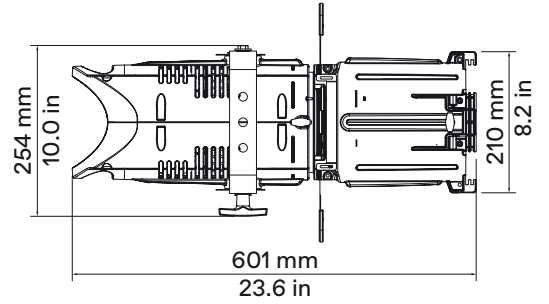
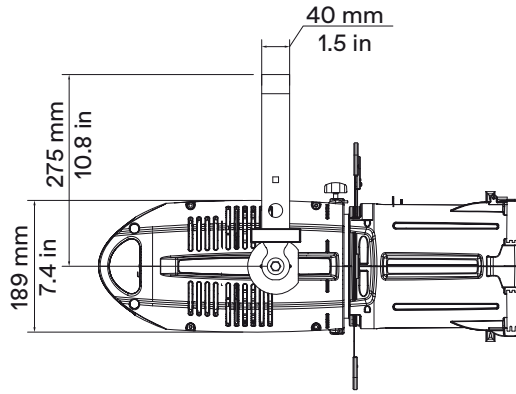
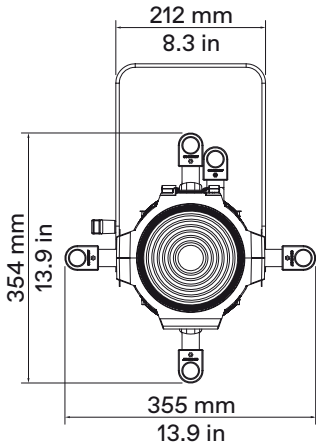
DMX Charts

16 Channels
01 → Master Dimmer
02 → Red
03 → Green
04 → Blue
05 → Cyan
06 → Lime
07 → Amber
08 → Strobe Effect
09 → Dimmer Fine
10 → Special Functions
11 → Red Tone
12 → Green Tone
13 → Blue Tone
14 → White Tone
15 → Green Saturation
16 → Saturation

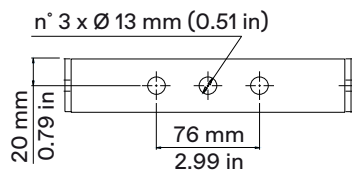
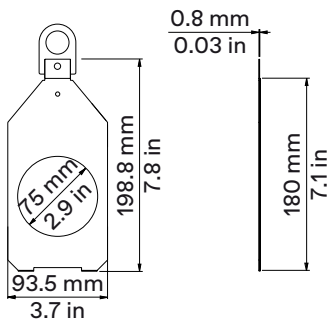
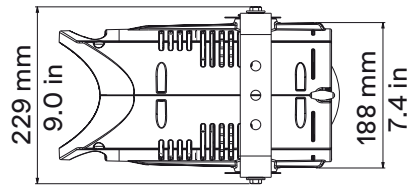
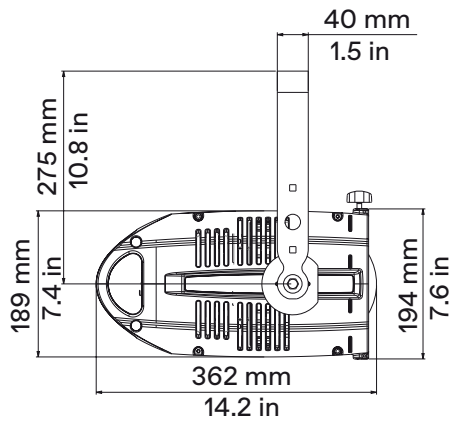
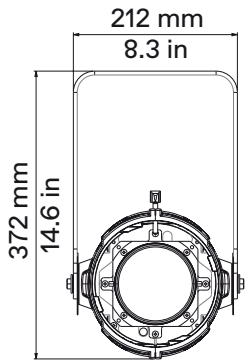
7 Channels
01 → Master Dimmer
02 → Red
03 → Green
04 → Blue
05 → Cyan
06 → Lime
07 → Amber
Studio Mode
01 → Master Dimmer
02 → White Tone
03 → Green Saturation
04 → Saturation
05 → Hue
06 → Dimmer Fine
07 → Special Functions

1 Channel
01 → Master Dimmer - Color
Temperature Settable by Display
RGB Mode
01 → Master Dimmer
02 → Dimmer Fine
03 → Red
04 → Green
05 → Blue
06 → White Tone
07 → Saturation
08 → Strobe Effect
09 → Special Functions

Fine RGB Mode
01 → Master Dimmer
02 → Dimmer Fine
03 → Red
04 → Red Fine
05 → Green
06 → Green Fine
07 → Blue
08 → Blue Fine
09 → White Tone
10 → Saturation
11 → Strobe
12 → Special Functions
Sunrise Mode
01 → Master Dimmer
02 → Dimmer Fine
03 → Proportional CCT
04 → Step CCT
05 → Green Saturation
06 → Special Functions



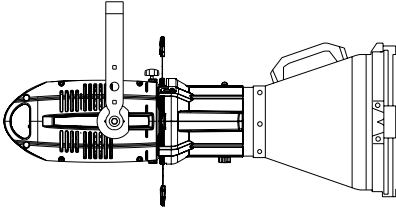
* with Profile Zoom 28°/40° optic

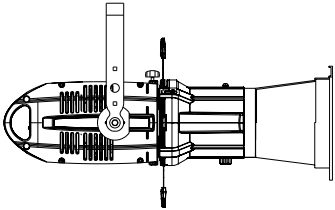


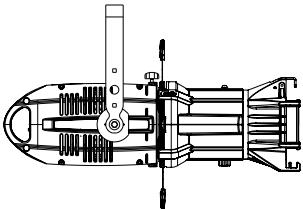
*Standard gobo holder

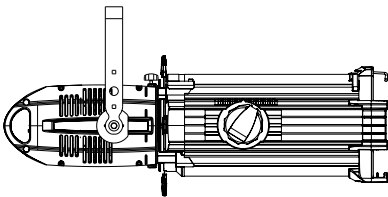
*Yoke

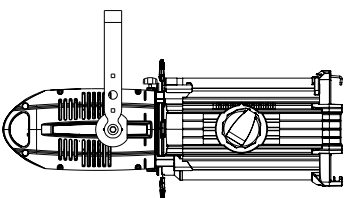
LEDko Optics dimensions and weight

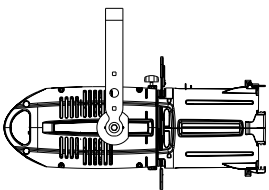
Product	Optics	Length	Weight
	Lens Tube Profile 10°	900 mm (35.4 in)	9 Kg (19.8 lbs)

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)

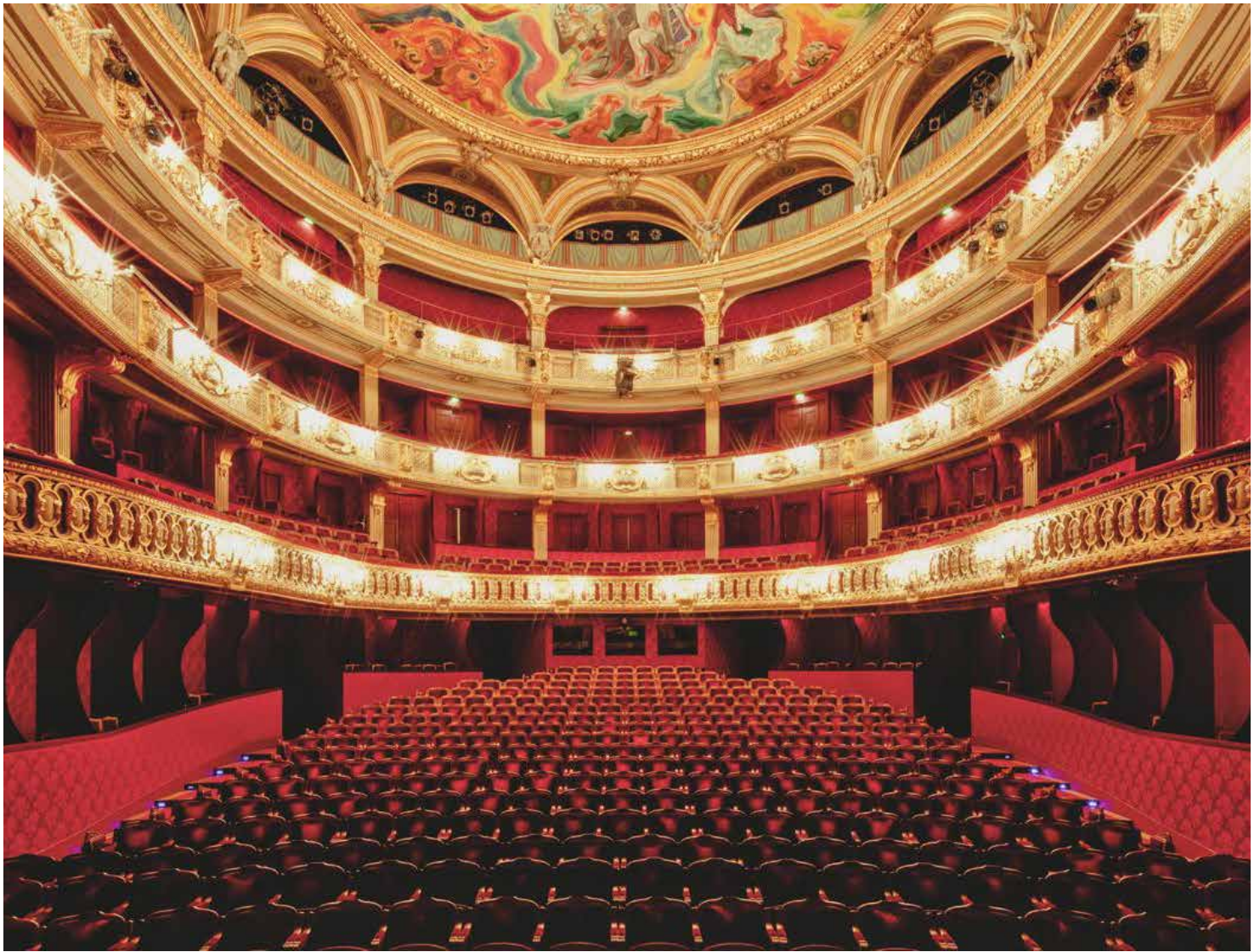
Product	Optics	Length	Weight
	Profile Zoom 25°-50°	783 mm (30.8 in)	11.2 Kg (24.69 lbs)

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)



Musical - Pretty Woman, National Theatre Milan, Italy

Product	LEDko FS 6 HD
CCT	RGBCLA
CRI	>95
Light Designer	Francesco Vignati
Installation	Audiolux Srl



Theatre - The Odéon-Théâtre de l'Europe, France

Product	LEDko FS 6 HD
CCT	RGBCLA
CRI	>95
Light Designers	Baron Xavier & Jauféré Thumerel



Concert - Camp Wildfire Festival, UK

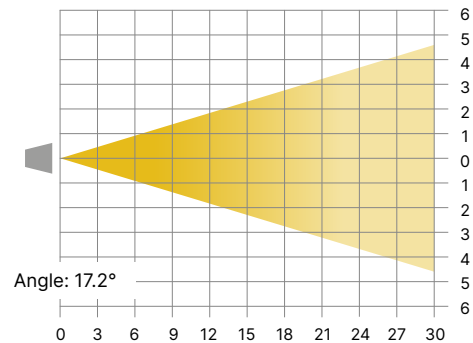
Product	LEDko FS 6 HD
CCT	RGBCLA
CRI	>95
Light Designer	Jack Gunesh
Rental	STLS

LEDko FS6 HD-R

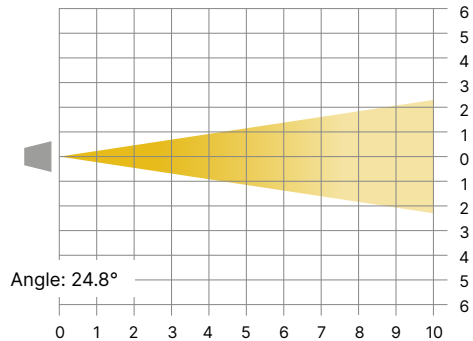
Measurements taken with fan in AUTO mode

Optic: **Lens Tube Profile 19°**

Distance (m)		3	6	9	12	15	18	21	24	27	30
lux	RED	992	248	110	62	40	28	20	15	12	10
	GREEN	2714	678	302	170	109	75	55	42	34	27
	BLUE	711	178	79	44	28	20	15	11	9	7
	CYAN	1728	432	192	108	69	48	35	27	21	17
	LIME	8781	2195	976	549	351	244	179	137	108	88
	AMBER	5392	1348	599	337	216	150	110	84	67	54
	3.200 K	13981	3495	1553	874	559	388	285	218	173	140
	5.600 K	15956	3989	1773	997	638	443	326	249	197	160
Diameter Ø (m)		0.91	1.81	2.72	3.63	4.54	5.44	6.35	7.26	8.17	9.07

Optic: **Lens Tube Profile 26°**

Distance (m)		1	2	3	4	5	6	7	8	9	10
lux	RED	4800	1200	533	300	192	133	89	75	59	48
	GREEN	12850	3213	1428	803	514	357	262	201	159	129
	BLUE	3400	850	378	213	136	94	69	53	42	34
	CYAN	8225	2056	914	514	329	228	168	129	102	82
	LIME	41850	10463	4650	2616	1674	1163	854	654	517	419
	AMBER	25800	6450	2867	1613	1032	717	527	403	319	258
	3.200 K	66225	16556	7358	4139	2649	1840	1352	1035	818	662
	5.600 K	75125	18781	8347	4695	3005	2087	1533	1174	927	751
Diameter Ø (m)		0.44	0.88	1.32	1.76	2.20	2.64	3.08	3.52	3.96	4.40

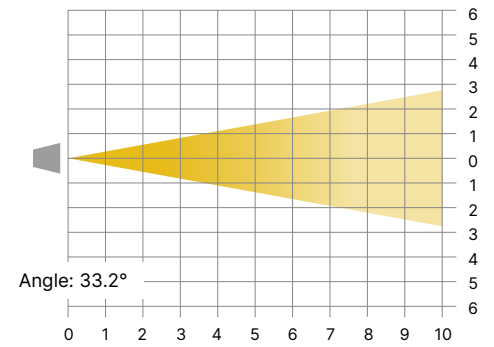


LEDko FS6 HD-R

Measurements taken with fan in AUTO mode

Optic: **Lens Tube Profile 36°**

Distance (m)		1	2	3	4	5	6	7	8	9	10
lux	RED	2400	600	267	150	96	67	49	38	30	24
	GREEN	6525	1631	725	408	261	181	133	102	81	65
	BLUE	1775	444	197	111	71	49	36	28	22	18
	CYAN	4225	1056	469	264	169	117	86	66	52	42
	LIME	21050	5263	2339	1316	842	585	430	329	260	211
	AMBER	12950	3238	1439	809	518	360	264	202	160	130
	3.200 K	33150	8288	3683	2072	1326	921	677	518	409	332
	5.600 K	37625	9406	4181	2352	1505	1045	768	588	465	376
Diameter Ø (m)		0.60	1.19	1.79	2.38	2.98	3.58	4.17	4.77	5.37	5.96



● Coemar Lighting S.r.l.

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Coemar reserves the right to change specifications without prior notice.

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