

# Technical Brochure



REFLECTION  
**RED** KOMODO™ Full Spectrum Series 2

# Reflection Series



# Reflection LEDko FullSpectrum Series 2

## KEY FEATURES

- RGBW color mixing
- 3200 K - 10000 K Continuously Variable Correlated Color Temperature with color rendering index greater than 90 (CRI>90)
- Plus minus green correction
- Color saturation adjustment
- Uniform light beam with no multicolor shadows
- Also compatible with new Fresnel and PC optics with shutters (Soft Profile)
- Guaranteed Flicker-free operation (DMX controlled PWM frequency)
- Smooth 16 bit dimmer
- The fan setting allows three options : low, auto, DMX regulated
- Instant gobos from standard printers



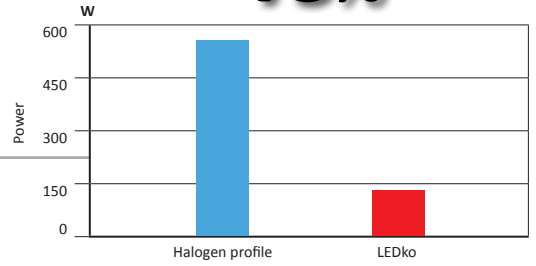
Reflection LEDko FullSpectrum Series 2 - F011H000A

\*Reflection LEDko FullSpectrum Series 2 equipped with PC optic

# -75%

## low power consumption

Reflection LEDko reduces power consumption levels by up to 75% and therefore recovers the financial investment within a few months.



Reflection LEDko White Body



Reflection LEDko without optic



Reflection LEDko Rear panel

### Reflection LEDko FullSpectrum Series 2

#### SPECIFICATIONS

RBG+W colour mixing with Hue and Saturation control

CCT: all whites from 3200 to 10000 K

Plus minus green correction

RGBW built-in libraries

Four blade framing system, each shutter blade is adjustable for radial position and angle

Electronic 16 bit dimming with 3 selectable curves (exponential, logarithmic, linear)

Synchronized, random or pulse electronic strobe

Flicker-free operation with LEDs frequency controlled via DMX from 600 Hz to 19000 Hz

Fan setting with 3 different options (low, auto, DMX regulated)

CE, ETL, UL approved

Weatherproof rating IP 20

#### PHYSICAL SIZE (With optic Soft Profile Fresnel )

Length: 601 mm (23.6 in)

Height: 189 mm (7.4 in)

Height with bracket: 372 mm (14.6 in)

Width: 212 mm (8.3 in)

Weight: 8.5 Kg (18.7 lbs)

#### PHYSICAL SIZE (Without optic)

Length: 362 mm (14.2 in)

Height: 189 mm (7.4 in)

Height with bracket: 372 mm (14.6 in)

Width: 212 mm (8.3 in)

Weight: 6 kg (13.2 lbs)

#### LIGHT SOURCE

Modular 180 W COB LED

20,000-hour LED life (20,000 hours to 70% intensity)

#### CONTROL PROTOCOL AND PROGRAMMING

USITT DMX512A

DMX Channels: 1/4/7/8/14

Setting, addressing, testing and measurements via LEDs display

Remote Device Management (RDM)

#### ELECTRICAL SPECIFICATIONS/CONNECTIONS

AC power: 90-250 V, auto sensing, 50/60 Hz

In and Out PowerCon connectors to feed up to 8 (at 230 VAC) or 4 (90 VAC)

Power consumption: 0.85 A at 230 V, 2.15 A at 90 V -  $\cos\phi$  0,98

DMX data in/out: 5 pin locking XLR

Reflection LEDko FullSpectrum Series 2 - Optics

Picture	Code	Description
	BC10011A017	Profile Zoom 15°-35°
	BC10011A019	Profile Zoom 25°-50°
	BC10011A003	Profile Zoom 28°-40°
	BC10011A002	Soft Profile Fresnel Zoom 17°- 55°
	BC10011A001	Soft Profile PC Zoom 11°- 38°



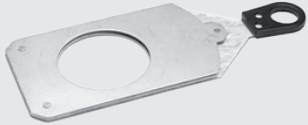
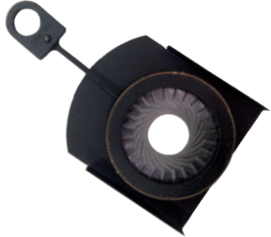
Reflection LEDko FullSpectrum Series 2 - Optics

Picture	Code	Description
	BC10011A200	Front barrel for lens tube with burnished blades
	BC10011A012	Profile 19°, lens tube
	BC10011A013	Profile 26°, lens tube
	BC10011A015	Profile 36°, lens tube
	BC10011A016	Profile 50°, lens tube

Reflection LEDko FullSpectrum Series 2 - Optics



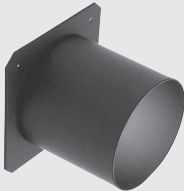
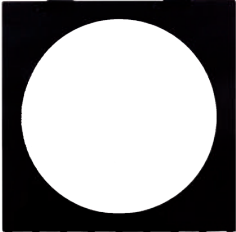
Picture	Code	Description
	BC10011A023	Profile 14°, lens tube
	BC10011A024	Profile 70°, lens tube
	BC10011A025	Profile 90°, lens tube

Reflection LEDko FullSpectrum Series 2 - Accessories

Picture	Code	Description
	<p>ACO4202</p>	<p>4 leaf barndoor</p>
	<p>BC10011A006</p>	<p>Gobo frame holder</p>
	<p>BC10011A030</p>	<p>Gobo glass holder</p>
	<p>BC10011A010</p>	<p>Iris</p>



Reflection LEDko FullSpectrum Series 2 - Accessories

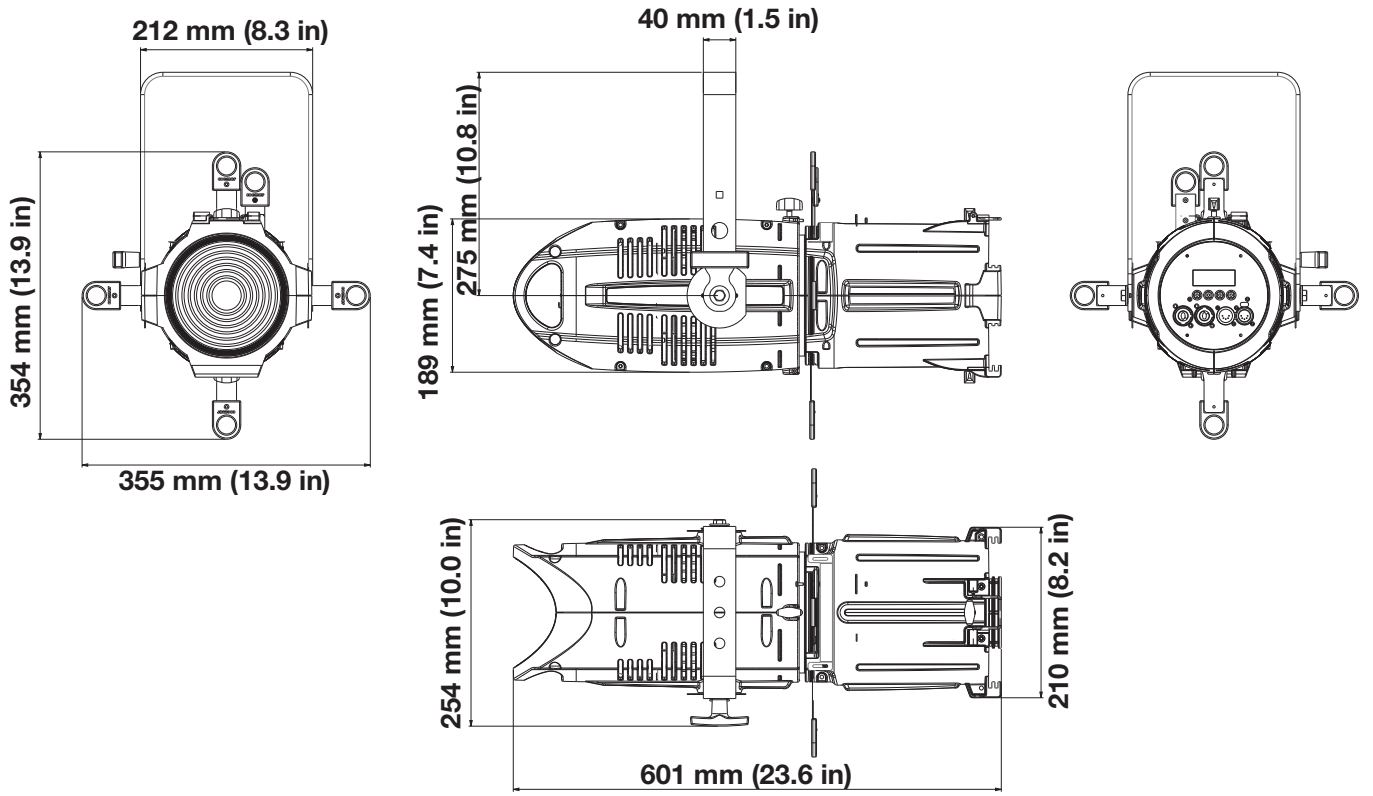
Picture	Code	Description
	<p>BC10011A028 BC10011A036 BC10011A032</p>	<p>Donut for Profile Zoom (190.5 mm) Donut for Soft Profile (185 mm) Donut for Lens Tube (159 mm)</p>
	<p>BC10011A027 BC10011A035 BC10011A031</p>	<p>Half Top Hat for Profile Zoom (190.5 mm) Half Top Hat for Soft Profile (185 mm) Half Top Hat for Lens Tube (159 mm)</p>
	<p>BC10011A029 BC10011A037 BC10011A033</p>	<p>Top Hat for Profile Zoom (190.5 mm) Half Top Hat for Soft Profile (185 mm) Half Top Hat for Lens Tube (159 mm)</p>
	<p>BC10011A040 ACO4204 BC10011A021</p>	<p>Colour Frame Holder for Profile Zoom (190.5 mm) Colour Frame Holder for Soft Profile (185 mm) Colour Frame Holder for Lens Tube (159 mm)</p>



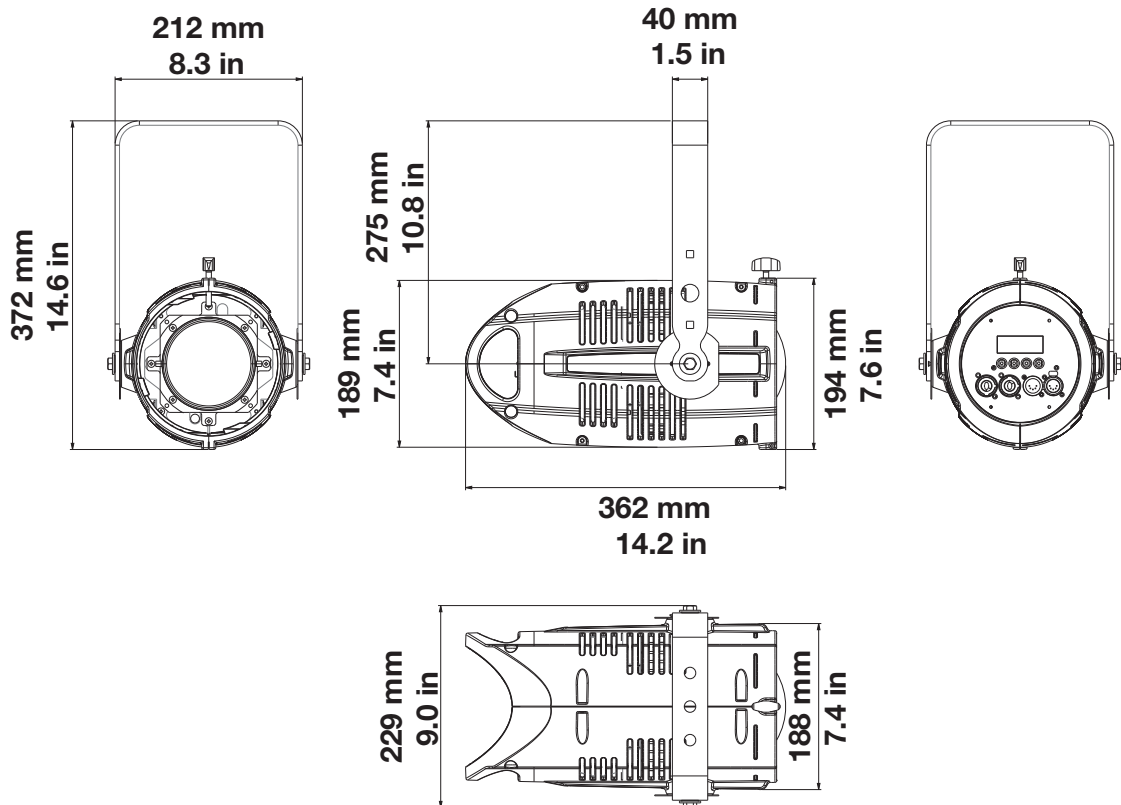
Reflection LEDko FullSpectrum Series 2 - Accessories

Picture	Code	Description
	BC10011A047	Hook Clamp 48 - 51 mm (Safe Working Load 20 Kg.)
	BC10011A045	Light Clamp silver 48 - 51 mm (Safe Working Load 75 Kg.)
	BC10011A046	Light Clamp black 48 - 51 mm (Safe Working Load 75 Kg.)
	BC10011A043	Clamp silver flat 13 - 30 mm / $\varnothing$ 15 - 50 mm (Safe Working Load: 20 Kg.)
	BC10011A044	Clamp black flat 13 - 30 mm / $\varnothing$ 15 - 50 mm (Safe Working Load 20 Kg.)

Reflection LEDko FullSpectrum Series 2 - Drawing Size



Reflection LEDko with optic Soft Profile Fresnel



**DMX Chart 14 Channels**

channel	effect
1	Master dimmer
2	Red
3	Green
4	Blue
5	White
6	Strobe effect
7	Dimmer fine
8	Special functions
9	Red tone
10	Green tone
11	Blue tone
12	White tone
13	Green saturation
14	Saturation

**DMX Chart 8 Channels**

channel	effect
1	Master dimmer
2	Red
3	Green
4	Blue
5	White
6	Strobe effect
7	Dimmer fine
8	Special functions

**DMX Chart 7 Channels**

channel	effect
1	Master dimmer
2	Color temperature
3	Green saturation
4	Saturation
5	Hue
6	Dimmer fine
7	Special function

**DMX Chart 4 Channels**

channel	effect
1	Red
2	Green
3	Blue
4	White

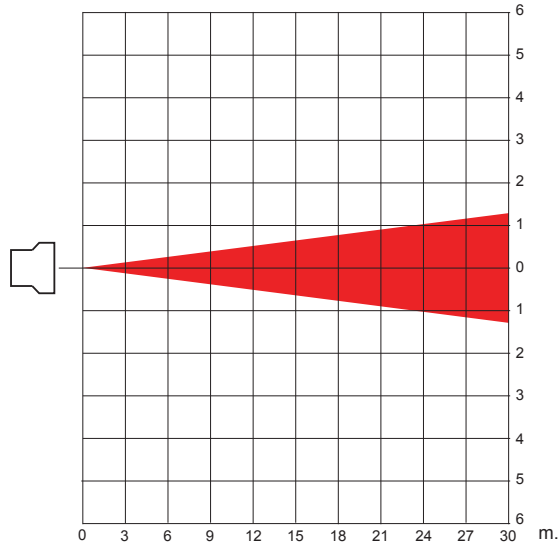
**DMX Chart 1 Channels**

channel	effect
1	Master dimmer (color temperature settable by display)

# Reflection LEDko FullSpectrum Series 2 - Photometric Data

## Profile 5°

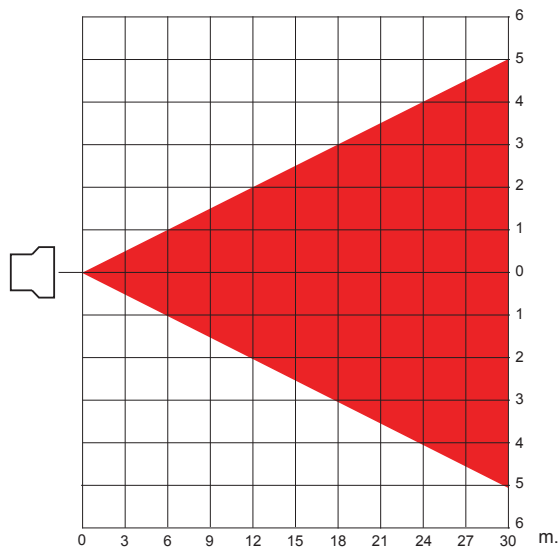
Distance (m.)	3	6	9	12	15	18	21	24	27	30
<b>FULL</b>	74800	18700	8311	4675	2992	2078	1527	1169	923	748
<b>RGB</b>	43800	10950	4867	2738	1752	1217	894	684	541	438
Luminous emittance (Lux)	<b>RED</b> 14520	3630	1613	908	581	403	296	227	179	145
	<b>GREEN</b> 28592	7148	3177	1787	1144	794	584	447	353	286
	<b>BLUE</b> 4000	1000	444	250	160	111	82	63	49	40
<b>WHITE</b>	35720	8930	3969	2233	1429	992	729	558	441	357
$\emptyset$ (m.)	0.26	0.52	0.79	1.05	1.31	1.57	1.83	2.10	2.36	2.62



Angle: 5°

## Profile 19°

Distance (m.)	3	6	9	12	15	18	21	24	27	30
<b>FULL</b>	8000	2000	889	500	320	222	163	125	99	80
<b>RGB</b>	4532	1133	504	283	181	126	92	71	56	45
Luminous emittance (Lux)	<b>RED</b> 1524	381	169	95	61	42	31	24	19	15
	<b>GREEN</b> 3040	760	338	190	122	84	62	48	38	30
	<b>BLUE</b> 424	106	47	27	17	12	9	7	5	4
<b>WHITE</b>	3760	940	418	235	150	104	77	59	46	38
$\emptyset$ (m.)	1.00	2.01	3.01	4.02	5.02	6.02	7.03	8.03	9.04	10.04

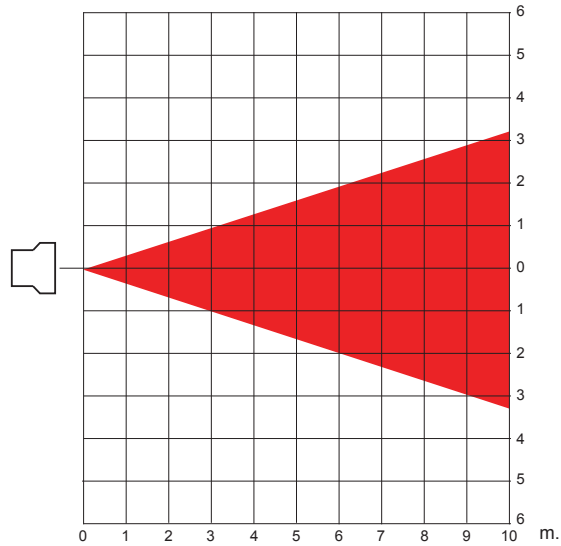


Angle: 19°

## Reflection LEDko FullSpectrum Series 2 - Photometric Data

### Profile 36°

Distance (m.)	1	2	3	4	5	6	7	8	9	10
FULL	19080	4770	2120	1193	763	530	389	298	236	191
RGB	10836	2709	1204	677	433	301	221	169	134	108
RED	3492	873	388	218	140	97	71	55	43	35
GREEN	7020	1755	780	439	281	195	143	110	87	70
BLUE	1044	261	116	65	42	29	21	16	13	10
WHITE	9000	2250	1000	563	360	250	184	141	111	90
Ø (m.)	0.65	1.30	1.95	2.60	3.25	3.90	4.55	5.20	5.85	6.50



Angle: 36°



**Coemar Lighting S.r.l.**

Via Carpenedolo, 90  
46043 Castiglione delle Stiviere  
Mantova - Italy  
ph. +39 0376 1514412  
fax +39 0376 1514380

[www.coemar.com](http://www.coemar.com)