PALCO 3

PALCO 3 is a very powerful, technically advanced LED lighting fixture, made to be "fitted and forgotten". Its high luminous power (2.800 Lumens) is combined with flexible use, ensuring great creative potential. Its Luxeon LEDs (24 red, 18 green and 7 blue) are able to create absolutely any colour combination, for use on smooth or decorated surfaces, as required: bright tones, soft hues and eye-catching unusual coloured or neutral lighting effects.

PALCO 3 makes an excellent job of highlighting profiles, volumes and architectural details but, thanks to its compact dimensions, discreet lines and extraordinarily quiet operation, remains unnoticed

If used in full view, it is really stylish, with an exclusive discreet design that is ideal for increasing the value of installations and easily matches structures, constructions, buildings and monuments.

It is maintenance-free, thanks also to its protection to IP 65.

PALCO 3 is also available in a White LED version, with 31 white LEDs and 18 amber LEDs.

01: LED's - THE LIGHT SOURCE THAT MAKES THE DIFFERENT

LEDs offers a series of unbeatable advantages over conventional light sources: they have a life of over 100.000 hours at full power, with practically non-existent maintenance.

They generate light that does not emit ultraviolet rays (which are potentially dangerous) nor infrared rays, thus avoiding heating or damaging the objects being illuminated.

All this with considerable energy saving and incomparable colour rendering: for example, the red's intensity is the same as that of a 750W halogen lamp, but consumes less than 100W.

LEDs therefore offer a highly competitive ratio between low consumption and very high efficiency, which also means lower environmental impact.

02: RGB / COLOUR TEMPERATURE

Additive RGB colour mixing, obtained using a matrix of 24 red, 18 green and 7 blue LEDs, offers an endless range of colour combinations, from the deepest to the softest colours, with an effective control of their tone. Colour temperature is 6.000°K and can be varied in a linear manner, directly on the fixture, according to needs.

03: WHITE LED / COLOUR TEMPERATURE

Temperature colour between 2.000°K and 6.700°K, obtained with a LED matrix: 31 whites and 18 ambers, ensures unlimited possibilities of tones of white, from the warmest the coolest. Linear temperature colour adjustment can be carried out directly on the fixture, according to requirements.

04: INTERCHANGEABLE LENSES

PALCO 3's luminosity is very high 2.800 lumens RGB and 3.800 lumens WHITE LED is currently unparalleled in the LED lighting sector.

The five interchangeable lenses (8°, 25°, 40°, elliptical 10° x 22° vertical and horizontal) offer various projection angles and allow **PALCO 3** fixtures to be used at different distances from the objects to be illuminated.

05: SILENT RUNNING

The extraordinary efficiency of **SGM LED LINE** fixtures is absolute silent. In fact, without the use of any kind of forced ventilation, cooling is carried out via convection, by means of the units' rear finning. An electronic self-regulating temperature system ensures continuous operation even in extreme conditions.

06: TOTALLY INDEPENDENT OPERATION

SGM LED LINE fixtures are completely programmable and can be run without the need for any external controller. In 'stand-alone' mode, i.e. using just their on-board microcomputer, it's possible to form systems consisting in several fixtures, up to a maximum of 30 (with 1 'MASTER' and 29 'SLAVES'), which can be programmed independently. The fixtures can also be controlled via computer, or using a DMX control system (such as SGM's REGIA 2048 console). In this case, it's possible to connect dozens of fixtures and control them simultaneously via DMX.

07: CONTROL

PALCO 3 functions can be controlled via USITT Standard DMX 512 serial digital signal or RS 232 serial signal.
PALCO 3 transmits and receives on 8 DMX channels.

08: PLAYBACK PROGRAMMING FOR A WHOLE WEEK

The on-board menu offers an extremely interesting function for scenographic architectural lighting applications: the possibility of running the completely automatic playback of a series of 48 'events' previously programmed on the fixture and organized to be run one after another over a period of a week.

Each event can include different settings of luminous intensity and colour mixing, shutter effects (strobe, pulse, random strobe), macro (rainbow, random colour), etc. The order, the precise instant in which they begin, and the duration of each event can be accurately programmed for 7 days directly on the fixture.

09: FUNCTION MENU

PALCO 3 has a multi-function menu which is used to:
• configure fixtures according to requirements
• input "standalone" programs
• perform self-tests
• report operational status information.
The menu is accessed by means of a user-friendly interface with a 10-digit display. The on-board software can be upgraded via DMX.

10: INSTALLATION

PALCO 3 has unusual, particularly stylish lines that enable it to discreetly fit into the surroundings and harmonically adapt to the architectural elements and settings to be lit.

For optimum installation flexibility, the unit's head can be removed from the rest of the body.

PALCO 3 is preset for various types of installation:
• Floor or wall-mounted by means of four holes on its base, using M6 screws.
• Flown from trussing – even upside down - (by fitting a clamp to the four Fast-Lock holes on its base).
• Floor-standing (on flat surfaces), maintaining utmost stability with any head angle.

PALCO 3 is suited to indoor and outdoor installation, as it's protected to IP65 (certified by Istituto Giordano S.p.A.).

PALCO 3's head can be inclined vertically or horizontally, in order to best adapt to the areas and architectural elements to be illuminated.
Pan: +/- 45°; Tilt: +15° / -70°.

DMX CHANNELS	PALCO 3		PALCO 3 WHITE LED	
Ch1	**Strobo/ Shutter**	Various shutter effects (strobe, random-strobe, pulse, at various speeds).	**Strobo/ Shutter**	Various shutter effects (strobe, random-strobe, pulse, at various speeds).
Ch2	**Dimmer**	Linear 0-100% regulation of luminous saturation.	**Dimmer**	Linear 0-100% regulation of luminous saturation.
Ch3	**Red**	Linear 0-100% regulation of red saturation.	**White 1**	Linear 0-100% regulation of white saturation.
Ch4	**Green**	Linear 0-100% regulation of green saturation.	**White 2**	Linear 0-100% regulation of white saturation.
Ch5	**Blue**	Linear 0-100% regulation of blue saturation.	**Amber**	Linear 0-100% regulation of amber saturation.
Ch6	**CTC**	Linear 0-100% regulation of colour temperature.	**CTC**	Linear 0-100% regulation of colour temperature.
Ch7	**Macro**	Various scenes with preset colour effects.	**Macro**	Various scenes with preset colour effects.
Ch8	**Color Mode**	Customizable white balance.	**Color Mode**	Customizable white balance.

PALCO 3
Total Lumen 2.800
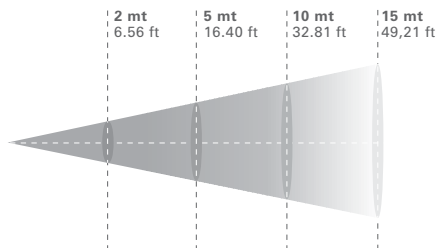
8°		**2 mt** 6.56 ft	**5 mt** 16.40 ft	**10 mt** 32.81 ft	**15 mt** 49,21 ft
	Lux center (boost on)	9100	1960	490	218
	Foot candles (boost on)	845	182	46	20
	Lux center (boost off)	10710	1764	441	196
	Foot candles (boost off)	995	164	41	18
	Field size (m)	0,35	0,87	1,75	2,62
	Field size (ft)	1,15	2,87	5,74	8,61
25°	**Lux center** (boost on)	2100	385	96	43
	Foot candles (boost on)	195	36	9	4
	Lux center (boost off)	1890	347	87	39
	Foot candles (boost off)	176	32	8	4
	Field size (m)	0,89	2,22	4,43	6,65
	Field size (ft)	2,91	7,27	14,55	21,82
40°	**Lux center** (boost on)	756	143	36	16
	Foot candles (boost on)	70	13	3	1
	Lux center (boost off)	680	129	32	14
	Foot candles (boost off)	63	12	3	1
	Field size (m)	1,68	4,20	8,39	12,59
	Field size (ft)	5,51	13,76	27,53	41,29
10° X 22°	**Lux center** (boost on)	5110	843	211	94
	Foot candles (boost on)	475	78	20	9
	Lux center (boost off)	4599	759	190	84
	Foot candles (boost off)	427	70	18	8
	Field size axys A (m)	0,35	0,88	1,76	2,64
	Field size axys A (ft)	1,16	2,89	5,79	8,68
	Field size axys B (m)	0,81	2,02	4,04	6,06
	Field size axys B (ft)	2,65	6,63	13,26	19,88

PALCO 3 WHITE LED
Total Lumen 3.800
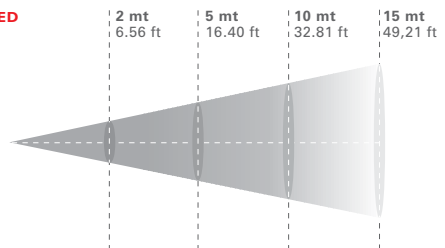
8°		**2 mt** 6.56 ft	**5 mt** 16.40 ft	**10 mt** 32.81 ft	**15 mt** 49,21 ft
	Lux center (boost on)	10450	2660	665	296
	Foot candles (boost on)	971	247	62	27
	Lux center (boost off)	14535	2394	599	266
	Foot candles (boost off)	1350	222	56	25
	Field size (m)	0,35	0,87	1,75	2,62
	Field size (ft)	1,15	2,87	5,74	8,61
25°	**Lux center** (boost on)	2850	523	131	58
	Foot candles (boost on)	265	49	12	5
	Lux center (boost off)	2565	470	118	52
	Foot candles (boost off)	238	44	11	5
	Field size (m)	0,89	2,22	4,43	6,65
	Field size (ft)	2,91	7,27	14,55	21,82
40°	**Lux center** (boost on)	1026	194	48	22
	Foot candles (boost on)	95	18	5	2
	Lux center (boost off)	923	174	44	19
	Foot candles (boost off)	86	16	4	2
	Field size (m)	1,68	4,20	8,39	12,59
	Field size (ft)	5,51	13,76	27,53	41,29
10° X 22°	**Lux center** (boost on)	6935	1144	286	127
	Foot candles (boost on)	644	106	27	12
	Lux center (boost off)	6242	1029	257	114
	Foot candles (boost off)	580	96	24	11
	Field size axys A (m)	0,35	0,88	1,76	2,64
	Field size axys A (ft)	1,16	2,89	5,79	8,68
	Field size axys B (m)	0,81	2,02	4,04	6,06
	Field size axys B (ft)	2,65	6,63	13,26	19,88

SPECIFICATIONS	PALCO 3	PALCO 3 WHITE LED
Colour mixing	RGB	-
Luxeon Blue LEDs	7 3W	-
Luxeon Green LEDs	18 3W	-
Luxeon Red LEDs	24 1W	-
Luxeon Amber LEDs	-	18 3W
Luxeon White LEDs	-	31 3W
Luminous flux	2.800 Lumens	3.800 Lumens
Colour temperature	6.000 °K (variable)	2.000 - 6.700 °K (variable)
Consumption	130W	150W
LEDs life (hours)	100.000 at maximum power	100.000 at maximum power
Interchangeable lenses	8°, 25°, 40° Elliptical 10°x22° vertical Elliptical 10°x22° horizontal	8°, 25°, 40° Elliptical 10°x22° vertical Elliptical 10°x22° horizontal
Power supply full range	AC 90-270V, 50-60Hz	AC 90-270V, 50-60Hz
DMX channels	8	8
Interface	LED display, 3 buttons	LED display, 3 buttons
Internal microcomputer	Large function menu. Software updatable via DMX	Large function menu. Software updatable via DMX
Pan	+/- 45°	+/- 45°
Tilt	+15°, - 75°	+15°, - 75°
Insulation degree	IP65	IP65
Dimensions cm (LxDxH)	42,5 x 37,5 x 22,9	42,5 x 37,5 x 22,9
Weight Kg	13,5	13,5
Codes	**020_2480** (with 8° lens) **020_2431** (with 25° lens) **020_2432** (with 40° lens) **020_2433** (with 10°x22° vertical elliptical lens) **020_2489** (with 10°x22° horizontal elliptical lens)	**020_2922** (with 8° lens) **020_2924** (with 25° lens) **020_2926** (with 40° lens) **020_2928** (with 10°x22° vertical elliptical lens) **020_2930** (with 10°x22° horizontal elliptical lens)