

Serie Lucciola	Serie Architectural	Serie Halled	Serie Hyperion						Serie Cyclorama
30W Pinspot	50W Fresnel, PC, Profile	85W Downlight	100W Fresnel, PC, Profile	200W Fresnel, PC, Profile	300W Fresnel, PC, Profile	300W Followspot	700W Fresnel, PC, Profile	700W Followspot	300W Cyclorama

#### SOURCE

- [FRESNEL and PC](#)
- [Profile](#)
- **100W LED COB**
- For **LUMINOUS FLUX** and **COLOR RENDERING INDEX (CRI)** refer to the related table

#### HOUSING

- Highly resistant body in **extruded aluminum** and **techno-polymer** body
- **IP 20**
- Finishing: **black (other RAL color on request)**

#### ELECTRICAL

- Power consumption: 100W
- Power supply: 100-240 V – 50/60 Hz
- PF>0.94/230VAC PF>0.98/115VAC at full load

#### THERMAL MANAGEMENT

- Wide ventilation slots for better LED cooling with 3 selectable FAN MODE
- High efficiency heat pipe cooling system
- Ta max 40°C

#### CONNECTION

- Power connector: chassis PowerCON TRUE1 In/Out
- Additional cable: 2m H05RN-F cable with powerCON TRUE1 female cable connector
- DMX: XLR 5-pole In/Out panel connectors

#### OPTICS

- **120mm high-quality glass lens / AR coating (PC)**
- **110mm high-quality glass lens / AR coating (Fresnel, Profile)**
- Focus: manual
- Gobo size: M or B (only for Profile)
- For beam angles refer to the related table

#### OPTIONS

- Pole Operated yokes
- ARC Motorized yokes

#### COMPLIANCE

- CE
- EN 60598-1; EN 60598-2-17
- SSL Licensing Program
- Manufactured in Italy with Quality System ISO 9001:2015

#### What is in the box

- Fixture
- 2m H05RN-F cable with powerCON TRUE1 female cable connector
- Safety instructions

#### SOFTWARE FUNCTIONS

- **ESD**: 8bit or 16bit
- Up to 6 **DIMMING CURVE Mark-II**
- **LED DELAY**: from 0 to 2000ms
- PWM LED 500Hz-20KHz
- **OUTPUT FREQUENCY** in order to remove flickering
- **LED BOOST** in order to increase +20% the light output of a fixture when for a tint or CCT when not all LED channels are at full
- 3 selectable **FAN MODE**
- **DISPLAY ROTATION** and **DISPLAY ON/OFF**
- **BOARD TEMPERATURE** and **CHIP TEMPERATURE** in order to monitor how the fixture works **Mark-II**
- **WIRELESS DMX** ready **Mark-II**
- Hour-counter on single LED
- Storage and factory recovery
- Upgradable firmware via DMX/USB tool
- Advanced remote settings (**RDM**) for all parameters via DMX
- **ERROR LIST** in order to display errors that can occur

#### COLOR and CCT PRESETS

- Not applicable

#### DIMENSIONS

FN	3.5 Kg	290x220x310 mm
PC	3.5 Kg	290x220x310 mm
PR (ZS)	6.2 Kg	400x340x540 mm
PR (ZW)	6.0 Kg	400x340x450 mm

#### Accessories

##### FIXTURE

- Filter frame **TC HY 100**
- 4D rotatable barndoors **PL 4 HY 100**
- C-hook for 40-50mm, M10 **GAC**
- Half coupler max 075kg, 48-50, M10 **HC/075**
- Safety rope, 80cm with spring-clamp **FUNE**
- Iris diaphragm **DIA HY100**
- Rotatable gobo-holder type B **PGB R 100**
- Rotatable gobo-holder type M **PGM R 100**

##### MOVEMENT SYSTEM (more info [here](#))

- Pole Operated, 2-way Pan and Tilt **PO/2 HY100**
- Pole Operated, 3-way Pan, Tilt and Focus **PO/3 HY100**

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## DMX PERSONALITIES

White			
	1CH 8 BIT	2CH 8 BIT	3CH 16 BIT
1 ch	DIMMER	DIMMER	DIMMER
2 ch		STROBO	DIMMER FINE
3 ch			STROBO

## LIGHT OUTPUT

Model	Type	(measure at)	CRI	TLCI	TM-30	Lumen	Beam	Lux	Ø Beam	Lux	Ø Beam	Lux	Ø Beam	Lux	Ø Beam	Lux	Ø Beam	Peak CD			
FN HY LED 100	WW	3000K	97	97	94	6.223	12°	1.073	0,8	477	1,3	268	1,7	172	2,1	119	2,5	17.160			
							75°	280	6,1	124	9,1	70	12,2	45	15,2	31	18,2	4.480			
	NW	4000K					6.572	12°	1.133	0,8	503	1,3	283	1,7	181	2,1	126	2,5	18.121		
								75°	296	6,1	131	9,1	74	12,2	47	15,2	33	18,2	4.731		
	CW	5600K				7.667		12°	1.321	0,8	587	1,3	330	1,7	211	2,1	147	2,5	21.141		
								75°	345	6,1	153	9,1	86	12,2	55	15,2	38	18,2	5.519		
								<b>4 m</b>		<b>6 m</b>		<b>8 m</b>		<b>10 m</b>		<b>12 m</b>					

Model	Type	(measure at)	CRI	TLCI	TM-30	Lumen	Beam	Lux	Ø Beam	Lux	Ø Beam	Lux	Ø Beam	Lux	Ø Beam	Lux	Ø Beam	Peak CD			
PC HY LED 100	WW	3000K	97	97	94	6.208	15°	1.044	1,0	464	1,6	261	2,1	167	2,6	116	3,1	16.700			
							75°	274	6,1	122	9,1	68	12,2	44	15,2	30	18,2	4.380			
	NW	4000K					6.556	15°	1.102	1,0	490	1,6	276	2,1	176	2,6	122	3,1	17.636		
								75°	289	6,1	128	9,1	72	12,2	46	15,2	32	18,2	4.625		
	CW	5600K				7.648		15°	1.286	1,0	572	1,6	321	2,1	206	2,6	143	3,1	20.575		
								75°	337	6,1	150	9,1	84	12,2	54	15,2	37	18,2	5.396		
								<b>4 m</b>		<b>6 m</b>		<b>8 m</b>		<b>10 m</b>		<b>12 m</b>					

Model	Type	(measure at)	CRI	TLCI	TM-30	Lumen	Beam	Lux	Ø Beam	Lux	Ø Beam	Lux	Ø Beam	Lux	Ø Beam	Lux	Ø Beam	Peak CD	
PR HY LED 100 ZS	WW	3000K	97	97	94	2.347	20°	1.740	1,4	773	2,1	435	2,8	278	3,5	193	4,2	27.840	
							38°	978	2,7	434	4,1	244	5,5	156	6,8	109	8,2	15.640	
	NW	4000K					2.479	20°	1.740	1,4	773	2,1	435	2,8	278	3,5	193	4,2	27.840
								38°	978	2,7	434	4,1	244	5,5	156	6,8	109	8,2	15.640
	CW	5600K				2.892		20°	2.030	1,4	902	2,1	507	2,8	325	3,5	226	4,2	32.480
								38°	1.140	2,7	507	4,1	285	5,5	182	6,8	127	8,2	18.246
PR HY LED 100 ZW	WW	3000K	3.063	35°	1.255		2,5	558	3,8	314	5,0	201	6,3	139	7,5	20.080			
				50°	705		3,7	313	5,6	176	7,4	113	9,3	78	11,1	11.280			
	NW	4000K		3.235	35°	1.325	2,5	589	3,8	331	5,0	212	6,3	147	7,5	21.205			
					50°	745	3,7	331	5,6	186	7,4	119	9,3	83	11,1	11.912			
CW	5600K	3.774	35°		1.633	2,5	726	3,8	408	5,0	261	6,3	181	7,5	26.125				
			50°		917	3,7	408	5,6	229	7,4	147	9,3	102	11,1	14.676				
							<b>4 m</b>		<b>6 m</b>		<b>8 m</b>		<b>10 m</b>		<b>12 m</b>				

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## PHOTOMETRIC DATA

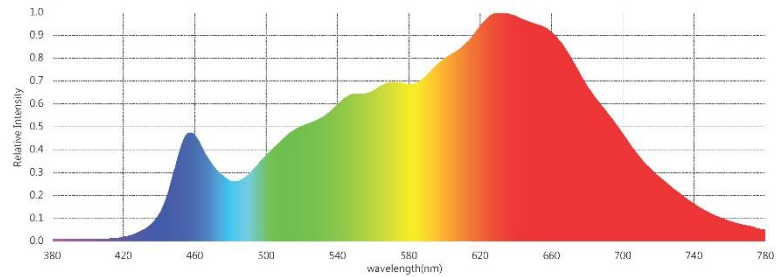
Conditions during measurements:

- LED: WW
- Test in hemi-anechoic room
- Temperature: 16°C
- Relative humidity: 61%
- Distance: 2m

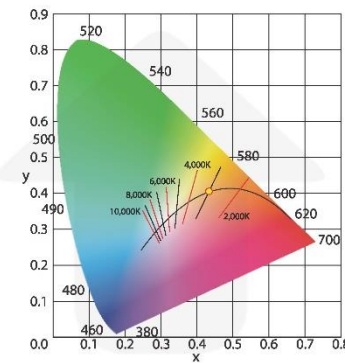
### Parameters

CIE_x	0.4334
CIE_y	0.4058
CIE_u'	0.2475
CIE_v'	0.5215
CCT	3075 K
Duv	0.0012
CRI (Ra)(R1~R8)	98
CRI (Re) (R1-R15)	97
CQS	97
TLCI(Qa)	99
GAI	58
TM-30-18 Rf	94
TM-30-18 Rg	99
Illuminance	1,285 lux
Foot Candle	119.4 fc
PPFD (400-700nm)	22.01 $\mu\text{mol}/\text{m}^2\text{s}$
$\lambda_p$	631 nm
$\lambda_D$	582 nm
Purity (Pe)	50 %
SP Ratio	1.5
Circadian Stimulus	0.60
Circadian Light	1,363
Flicker Percentage	1 %
Flicker Index	0.00
Flicker Frequency	136 Hz

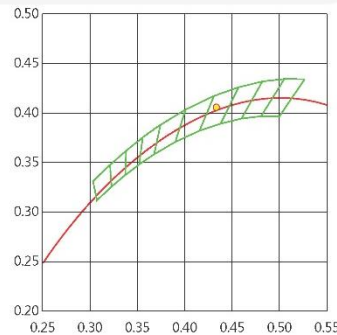
### Spectrum



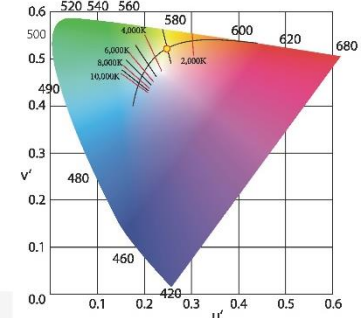
### CIE 1931



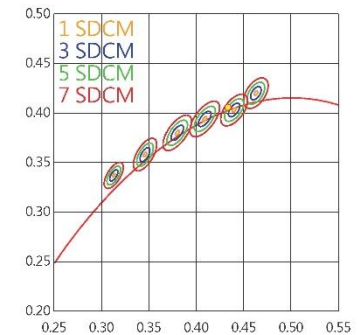
### C78.377 - 2017



### CIE 1976



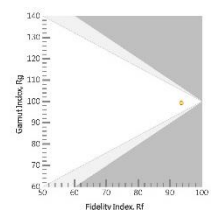
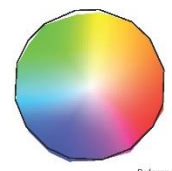
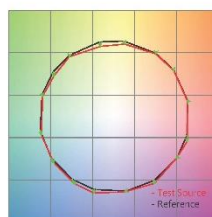
### IEC-SDCM



### CRI (Re) (R1-R15)

R1	99	R6	98	R11	99
R2	99	R7	99	R12	81
R3	96	R8	98	R13	100
R4	99	R9	97	R14	97
R5	98	R10	96	R15	98

### TM-30-18



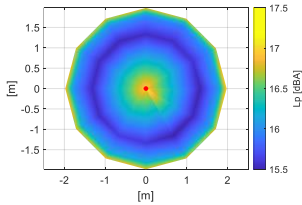
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## NOISE LEVEL DATA (silent mode)

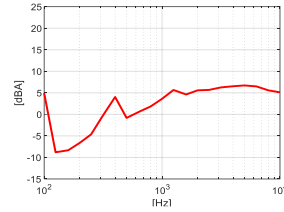
Conditions during measurements:

- Test in hemi-anechoic room
- Temperature: 22°C
- Relative humidity: 79%
- Radius of spherical measuring surface: 2m

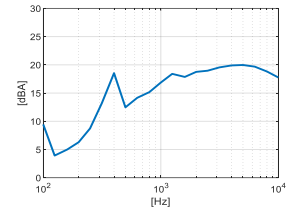
Diagram of Sound Pressure level  $L_p$  [dBA], the red point identifies the direction of maximum noise emission <sup>1</sup>



Sound pressure level spectrum [dBA] measured at maximum noise emission point



Sound power level spectrum  $L_{WA}$  [dBA]



Total sound pressure level  $L_p$  (0.1 – 10 kHz, ref.  $2 \times 10^{-5}$  Pa) at different distances<sup>2</sup>:

Distance	1 m	2 m	4 m	6 m
Sound pressure level $L_p$	23.1 dBA	17.1 dBA	11.1 dBA	7.6 dBA

The total sound power level  $L_{WA}$  is equal to **30.2 dBA** (0.1 – 10 kHz, ref.  $1 \times 10^{-12}$  W).

<sup>1</sup>The positive direction of X axis corresponds to the spotlight central axis and points in the direction of light emission.

<sup>2</sup>Estimated Sound Pressure levels starting from the one measured at the point of maximum noise emissions at 2 m.

How to... (video tutorial)