

SUPER LED F14HP_{rp}



DATASHEET

DeSisti

SUPER LED F14HP_{rp}

LED Fresnel Spotlight 580W - CRI>95

White light, either Tungsten or Daylight balanced with IP23 rain protection

OVERVIEW

The Super LED F14HP_{rp} is a high efficiency Fresnel lens spotlight using the innovative High Power 580W COB (Chip on Board) LED ARRAY, in combination with the DE SISTI Internationally Patented optical system for LED FRESNEL, an enhanced CRI (Color Rendering Index) higher than 95 for appropriate chromacity performances and the IP23 rain protection makes it ideal for location work. The Lighting Fixture is DMX Controlled from 0 to 100% with a super smooth Dimming and a negligible variation of Colour Temperature while controlling the Light intensity.

The F14HP is available with either Tungsten (3.200°K) or Daylight (5.600°K) Balanced CCT (Correlated Color Temperature), in both cases with a CRI higher than 95 and both in Manual or Pole operated versions.

The lighting Performances of the Tungsten Balanced CCT from medium to full flood are similar to those of a 4000W tungsten Fresnels, while the Daylight Balanced CCT is similar to a 1200W HMI. The fixture combines the classical SPOT/FLOOD beam control on an equivalent FOCUS RANGE to a conventional lamp fresnel, with an excellent barn door cutting.

It utilizes Standard accessories from the DE SISTI range of equivalent Fresnel Lens size, such as Barndoor, Color Frame, Cones, Scrims.

MODEL	DESCRIPTION
F14THPrp.MO	Super LED F14HP _{rp} T - Tungsten CCT, Manual Operated
F14THPrp.PO	Super LED F14HP _{rp} T - Tungsten CCT, Pole Operated
F14DHPrp.MO	Super LED F14HP _{rp} D - Daylight CCT, Manual Operated
F14DHPrp.PO	Super LED F14HP _{rp} D - Daylight CCT, Pole Operated



WHAT'S INSIDE

FIXTURE HEAD IP23 rain protected

350 mm. (14") diameter Fresnel lens
Bottom Skid on Shock Absorbers
PowerCON TRUE 1 IN & OUT PANEL CONNECTORS.
XLR 5 Pin DMX IN & OUT PANEL CONNECTORS.
580W high power CRI>95
Built In Universal Power Supply 90-250V
50/60Hz DMX controlled.

YOKES

Manual Operated Versions

Mod. LT350.110.40 M.O. yoke with 28,57 mm (B.S. 1 1/8") with top end for "C" clamp

Pole Operated Versions

Mod. 351.110.40 P.O. yoke with 28,57 mm. spigot (B.S. 1 1/8"), with top end for "C" clamp

ACCESSORIES

Mod. 356.110 four leaf rotating barndoor
Mod. 357.300 color frame

CABLES

Mod. 5403.435 3 mt. (9.8 ft) detachable Mains cable w/ PowerCON TRUE 1 mod. NAC3FX-W and other bare end.

DMX cable is not included, to be ordered separately

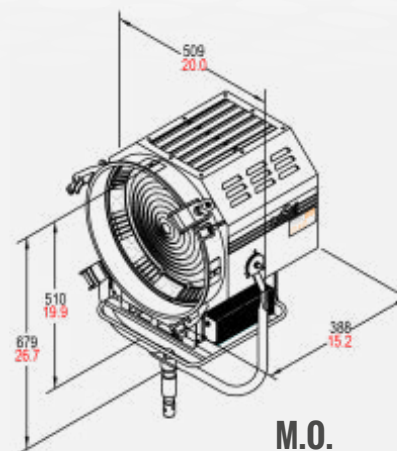
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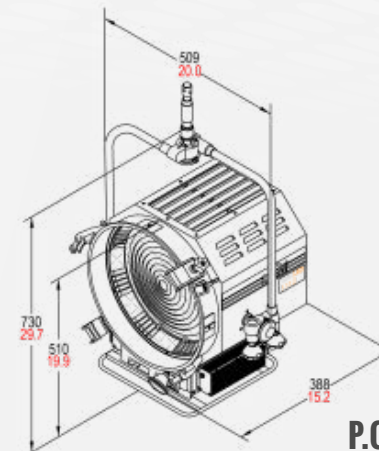
FEATURES

Power to LED	580W - DC current to the LED - flicker free
Rated Voltage & PFC	90-250V 50-60Hz PFC 0,96
Power consumption	650W @ 230V 650W @ 120V
Power Connection	powerCON TRUE 1 IN & OUT
DMX Data link USITT DMX512-A	5-pin XLR for DMX in & out. Use shielded data cables. Do not overload the daisy chain. Up to a maximum of 32 devices can be used on a single DMX chain.
DMX Channels	1 @ 8bit 2 @ 16bit
LED ARRAY Lifetime	50.000 hours with 70% Lumen Maintenance. The LED ARRAYS are tested and certified up to LM80
CCT	T: 3.200°K D: 5.600°K
CRI / TLCI	T: 97 / 96 D: 96 / 97
Protection Type	IP23 (Rain Protection)
Max. Housing Surface Temperature	70° C
Weight of Fixture	M.O. 20,0 Kg (44.1 lb) P.O. 21,5 Kg (47.31 lb)
Weight of Barndoor	4 leaf 1,85 Kg (4.08 lb) 8 leaf 2,1 Kg (4.63 lb)
Weight of color frame	0,5 Kg (1.10 lb)
Barndoor ring diameter	Seat: 402mm / 15 4/5" - Accessory: 399mm / 15 2/3"
Scrims & color frame diameter	Seat 395mm / 15 1/2" - Accessory: 393mm / 15 1/2"
Lens diameter	350mm / 14"

DIMENSION



M.O.



P.O.

FEATURES

350 mm. (14") diameter high quality, shock resistant Borosilicate glass Fresnel lens on spring supports.

Rugged and lightweight Carbon Steel Housing with low glare blackepoxy powder coating and reinforces internal double walls.

High efficiency Self Stabilizing Active Cooling: automatic, thermal stabilization of the LED operating temperature is managed by an internal thermal sensor and CPU, variable speed fan and heat sink to maintain the LED Array's constant temperature at a maximum of 65°C. The hydro dynamic bearing fan operates silently with a very low RPM.

Special Patented Optics for LED Technology.

Helix Screw driven focus mechanism which guides Teflon bushings supported LED ENGINE along 2 rods. This ensures smooth operation during focusing in any tilting position of the fixture. The Teflon bushings also provide a wiping action, which cleans the steel guide rails during focus.

The unit is equipped with a hinged lens door and wire guard. One of the 4 accessory brackets has a spring loaded locking knob to safely secure external accessories.

Accessories have been designed for one hand installation.

Available with either positive lock manual yokes for comfort and ease of handling, or pole operated yokes which can be used via the lighting pole for Panning and Tilting the lights as well as manually, since the mechanical activators are equipped with clutches.

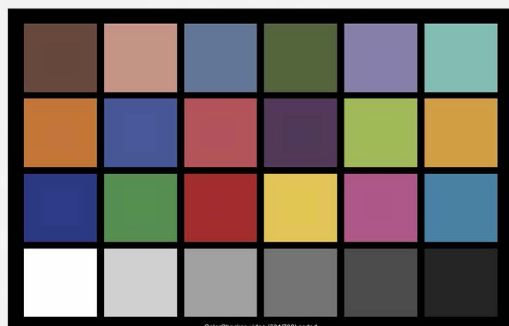
IP23 rating, the unit could work under the rain.

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TLCI

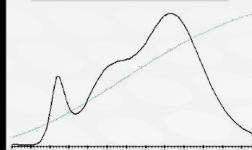
TUNGSTEN CCT

De Sisti SUPER LED F14HP - 580W - Tungsten : CCT = P3105 (+0.4)
TLCI-2012: 96 (P3105)



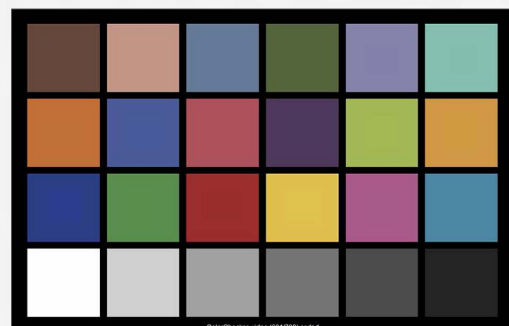
Television Lighting Consistency Index-2012

Sector	Lightness	Chroma	Hue
R	0	0	0
RY	0	0	0
Y	0	0	0
YG	0	0	0
G	0	0	0
G/C	0	0	+
C	0	0	+
C/B	0	0	0
B	0	-	-
BM	0	0	+
M	0	0	+
M/R	0	0	+



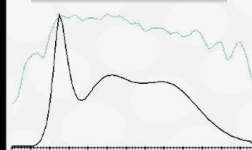
DAYLIGHT CCT

De Sisti SUPER LED F14HP - 580W - Daylight : CCT = D5651 (+0.7)
TLCI-2012: 95 (D5651)



Television Lighting Consistency Index-2012

Sector	Lightness	Chroma	Hue
R	0	0	0
RY	0	0	-
Y	0	0	-
YG	0	0	0
G	0	0	0
G/C	0	0	0
C	0	0	-
C/B	0	-	---
B	0	-	0
BM	0	+	0
M	0	0	0
M/R	0	0	0



PHOTOMETRICS

// SUPER LED F14 HP RP

Control Light Intensity (Candle Power)

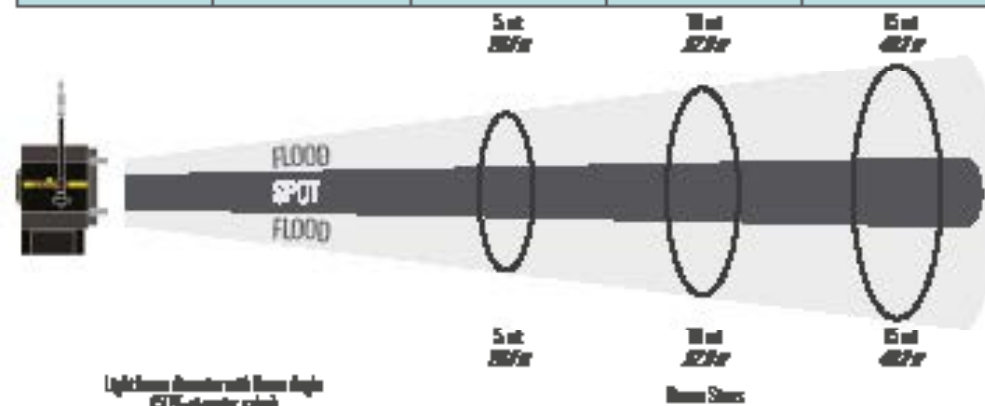
Measurement under values at Distances

3.200°K TUNGSTEN BALANCED C.C.T. (Correlated Color Temperature) - 580W (CRI 97) - TLCI- 96

FLOOD	42.113 cd	1.685 lux 156 FC	421 lux 39 FC	187 lux 17 FC
SPOT	200.344 cd	8.014 lux 745 FC	2.003 lux 186 FC	890 lux 83 FC

5.600°K DAYLIGHT BALANCED C.C.T. (Correlated Color Temperature) - 580W (CRI 95) - TLCI- 95

FLOOD	48.730 cd	1.949 lux 181 FC	487 lux 45 FC	217 lux 20 FC
SPOT	193.227 cd	7.729 lux 718 FC	1.932 lux 180 FC	859 lux 80 FC



FLOOD	51°	4,77 mt 15.6 ft	9,54 mt 31.3 ft	14,31 mt 46.9 ft
SPOT	12°	1,05 mt 3.4 ft	2,10 mt 6.9 ft	3,15 mt 10.3 ft

FLOOD	14°	7,54 mt 24.7 ft	15,07 mt 49.4 ft	22,61 mt 74.2 ft
SPOT	22°	1,94 mt 6.4 ft	3,89 mt 12.8 ft	5,83 mt 19.1 ft

LLC AT 14° 1000000 - Candle Power (Distance in m) *

LLC AT 22° 1000000 - Candle Power (Distance in m) *

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POWER AND DMX DAISY CHAIN, IP Rated

The Super LED FRESNELS permit both POWER and DMX DAISY CHAIN. In fact each Fixture is respectively equipped with:

DMX SECTION: XLR5 pin Panel Mount Male & Female (DMX IN & OUT with covers for IP rating).

MAINS SUPPLY with PowerCON TRUE1: The powerCON TRUE1 are connectors with breaking capacity (CBC), i.e. they can be connected or disconnected under load or live, 16A max. The connectors and covers are rated IP65.



OPTIONALS & ACCESSORIES

F14XHP_{rp}.XO.DIN	add code to order DIN Spigot
355.310	Stainless Steel wire guard
356.110	Four leaf rotating barndoor
356.210	Eight way rotating barndoor
357.300	Color Frame
358.100	Cone with two discs (with front aperture diameter: 70 mm. 50 mm. 30 mm.)
359.100	Set of scrims - Stainless steel
359.101	Full single scrim - Stainless steel
359.102	Full double scrim - Stainless steel
359.103	1/2 single scrim - Stainless steel
359.104	1/2 double scrim - Stainless steel
397.100	Outrigger color frame
397.110	Outrigger color frame holding kit
91.210	Aluminum black painted "C" clamp to hang fixtures overhead and for mounting on pipe with diameters up to 52 mm. (2"), with safety pin (no adapters)
20.100	Safety cable 800 mm. long with 4 mm. diameter steel rope and safety catch.
LT350.110.40	Steel tube Manual Operated stirrup with 28,57 mm. spigot (B.S. 1 1/8"), with top end for attachment to "C" clamp.
LT350.300.40	Steel tube Manual Operated stirrup with 28,00 mm. spigot (D.I.N 1 1/9")
LT350.220.40	Steel tube Manual Operated stirrup with M 12 Threaded hole
LT351.110.40	Pole operated stirrup with 28,57 mm. spigot (B.S. 1 1/8"), with top end for attachment to "C" clamp.
351.300.40	Pole operated stirrup with 28,00 mm. spigot (D.I.N 1 1/9")