

Super LED F10 HP "High Power"

Led Power 230W – Consumption 250W – PFC 0,96

LED Fresnel SPOTLIGHT CRI greater than 90

White light, either Tungsten or Daylight balanced Correlated Colour Temperature



IP23 rated: "Rain Protected"



LED Lighting, Green Energy

OVERVIEW

The Super LED F10 HP is the HIGH POWER version of the high efficiency Super LED F10 Fresnel lens spotlight by DE SISTI and includes:

- the De Sisti Internationally Patented optical system for LED FRESNELS and Plano Convex Optics.
- It 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.
- It is using 230W High CRI - COB LED ARRAYS instead of the 165W ones and such a Power Increase is matching with the Light Output Performances increase.
- **The Fixture is rated for IP23 and it is ideal for Location Work, it can be use under the RAIN and it has been tested for minus 20° C ambient temperature operation.**
- It 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 lighting Performances of the Tungsten Balanced CCT are similar from medium to full flood those of a 2kW tungsten Fresnels, while the Daylight Balanced CCT is equivalent to a 700W.

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.

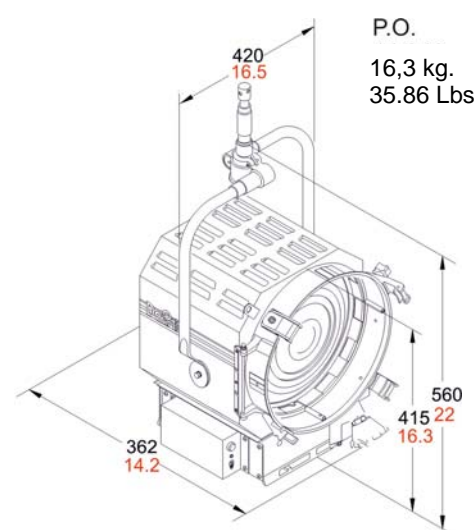
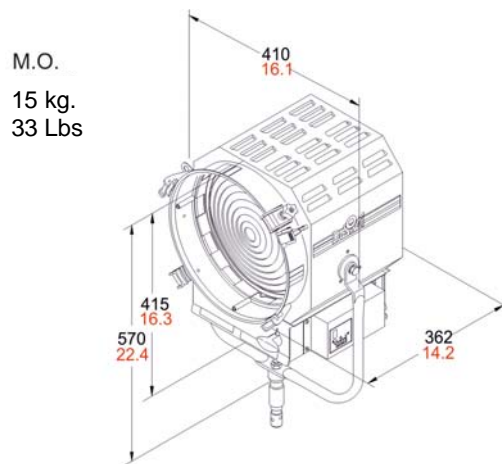
It utilizes Standard accessories from the DE SISTI range of equivalent Fresnel Lens size, such as Barndoor, Colour Frame, Cones, scrims.

FEATURES

- 250 mm. (10") diameter high quality, shock resistant Borosilicate glass Fresnel lens on spring supports.
- Rugged and Lightweight Carbon Steel housing with low glare black epoxy powder coating, with internal double walls and reinforces.
- 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.
- Steel cable 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 focusing mechanism can be activated from both front and rear of the fixture and the whole spot to flood action is accomplished with 1 and half turn of the focusing knob.
- The unit is equipped with a hinged lens door with wire-guard, it includes accessory holding brackets. One of the 4 brackets has a locking knob and is spring loaded, it can be locked to either safely hold barndoor, color frame and scrims or to be rotated 90° and locked in an open position for fast accessories changes. A double safety accessory bracket with spring loaded catch is available on request to be assembled opposite to the locking knob.
- The accessories are secure regardless of the orientation of the fixture. 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.

CHARACTERISTICS & PERFORMANCE DATA

| DESCRIPTION | VALUE | |
|------------------------------------|---|------------------------------------|
| ➤ Power to LED | 230W DC Current to the LED (no flicker) | |
| ➤ Power Consumption | Europe | America |
| | 250W @ 230 V 50-60 Hz | 250W @ 120 V 50-60 Hz |
| ➤ DMX Data link USITT DMX512-A | This product uses a 5-pin XLR for DMX input and output. Use a 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 at 8bit: Dimmer | |
| | 2 at 16bit: Dimmer | |
| ➤ LED ARRAY Lifetime | 50.000 hours with 70% Lumen Maintenance. The LED ARRAYS are tested and certified up to LM80 | |
| ➤ Protection Type | IP 23 (Rain Protection) | |
| ➤ Max. Housing Surface Temperature | 70° C | |
| ➤ Weight of Fixture | M.O. | P.O. |
| | 15 kg. | 16,3 kg. |
| ➤ Weight of Barndoor | 4 leaf | 8 leaf |
| | 1,4 kg. | 1,65 kg. |
| ➤ Size of Barndoor ring | Seat Diameter | Ring Diameter |
| | 314 mm. | 313 mm.($\approx 12\frac{1}{4}$) |
| ➤ Weight of color frame | 0,28 kg. | |
| ➤ Size of scrims & color frame | Seat Diameter | Accessory Diameter |
| | 306 mm. | 305 mm (12") |
| ➤ Lens diameter | 250 mm. | |



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:

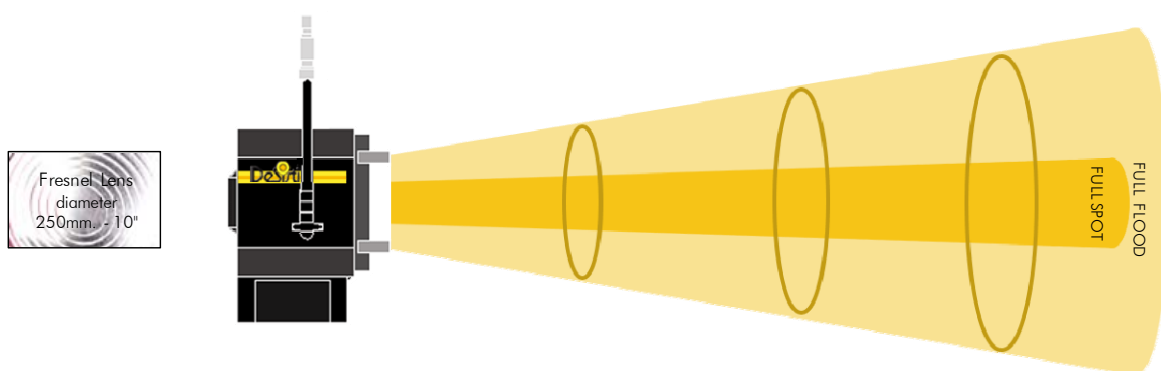
DMX SECTION: XLR5 pin Panel Mount Male & Female (DMX IN & OUT with covers for IP rating).

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.

PHOTOMETRIC DATA

PHOTOMETRIC DATA SUPER LED F10T HP, 230W-LED, 250W Power Consumption, CRI 97
C.C.T. (Correlated Color Temperature) balanced to match 3.200°K TUNGSTEN LAMPS

| | | | | |
|---|-----------|----------------|----------------|----------------|
| Illumination center values at Distances | | 2.168 lux | 780 lux | 195 lux |
| Central Light intensity (Candle Power) | 19.512 cd | 201 FC | 73 FC | 18 FC |
| Light beam diameter with Beam Angle | | 3,06 mt | 5,10 mt | 10,19 mt |
| (50% of center value): | 54,0° | 10.0 ft | 16.7 ft | 33.4 ft |
| Light beam diameter with Field Angle | | 4,77 mt | 7,95 mt | 15,91 mt |
| (10% of center value): | 77,0° | 15.7 ft | 26.1 ft | 52.2 ft |
| FULL FLOOD | DISTANCES | 3 mt | 5 mt | 10 mt |
| | | 9.8 ft | 16.4 ft | 32.8 ft |



| FULL SPOT | | DISTANCES | 3 mt <i>9.8 ft</i> | 5 mt <i>16.4 ft</i> | 10 mt <i>32.8 ft</i> |
|---|------------|-----------|-----------------------|------------------------|-------------------------|
| Illumination center values at Distances | | | 11.770 lux | 4.237 lux | 1.059 lux |
| Central Light intensity (Candle Power) | 105.930 cd | | <i>1,093 FC</i> | <i>394 FC</i> | <i>98 FC</i> |
| Light beam diameter with Beam Angle | | | 0,63 mt | 1,05 mt | 2,10 mt |
| (50% of center value): | 12,0° | | <i>2.1 ft</i> | <i>3.4 ft</i> | <i>6.9 ft</i> |
| Light beam diameter with Field Angle | | | 1,17 mt | 1,94 mt | 3,89 mt |
| (10% of center value): | 22,0° | | <i>3.8 ft</i> | <i>6.4 ft</i> | <i>12.8 ft</i> |

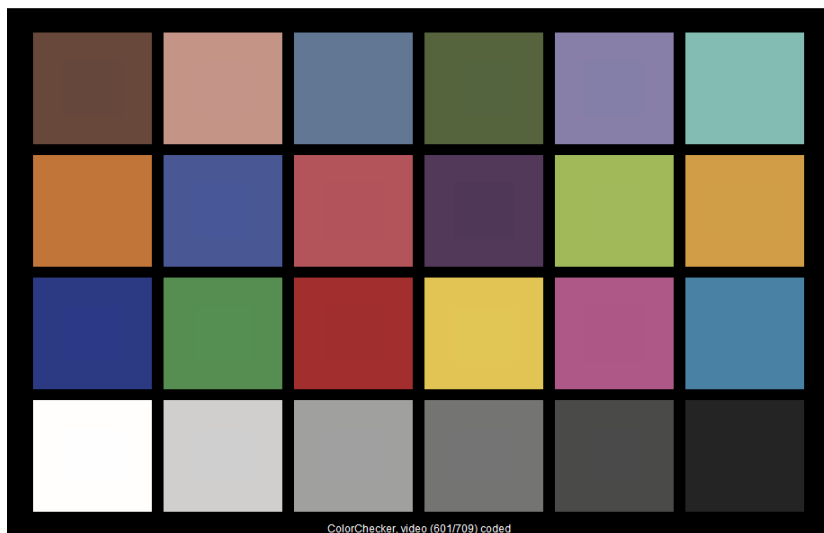
LUX AT ANY DISTANCE = Candle Power : [Distance(in m.)]²

F.C. AT ANY DISTANCE = Candle Power : [Distance(in ft)]²

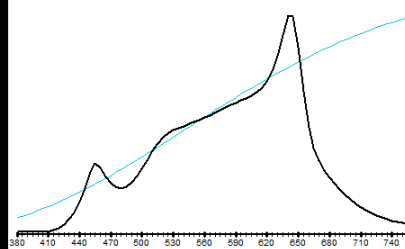
F10-T-HP-FLOOD : CCT = P3145 (-0.6)

TLCI-2012 : 97 (P3145)

**Television Lighting
Consistency Index-2012**



| Sector | Lightness | Chroma | Hue |
|--------|-----------|--------|-----|
| R | 0 | 0 | 0 |
| R/Y | 0 | 0 | 0 |
| Y | 0 | 0 | 0 |
| Y/G | 0 | 0 | 0 |
| G | 0 | 0 | 0 |
| G/C | 0 | 0 | 0 |
| C | 0 | 0 | 0 |
| C/B | 0 | 0 | 0 |
| B | 0 | 0 | 0 |
| B/M | 0 | 0 | ++ |
| M | 0 | + | + |
| M/R | 0 | 0 | 0 |

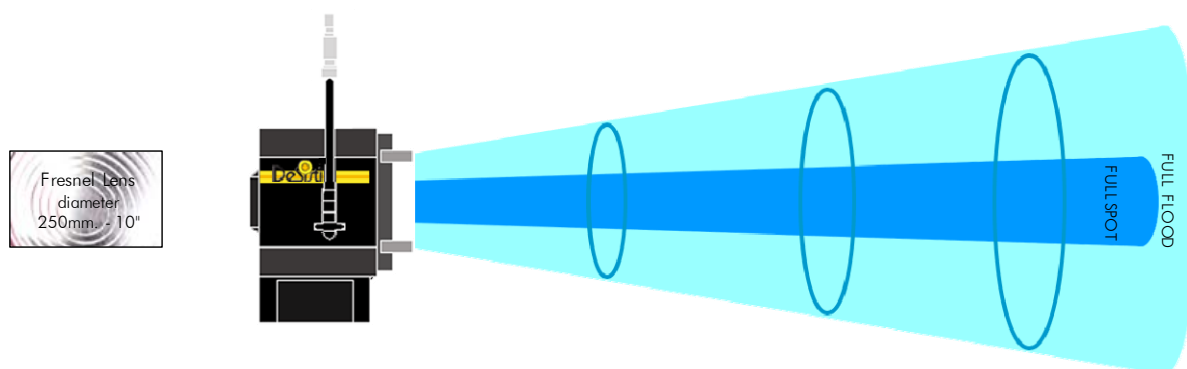


PHOTOMETRIC DATA

PHOTOMETRIC DATA SUPER LED F10T HP, 230W-LED, 250W Power Consumption, CRI 95

C.C.T. (Correlated Color Temperature) balanced to match 5.600°K DAYLIGHT LAMPS

| | | | | |
|---|-----------|----------------|----------------|----------------|
| Illumination center values at Distances | | 2.247 lux | 809 lux | 202 lux |
| Central Light intensity (Candle Power) | 20.223 cd | 209 FC | 75 FC | 19 FC |
| Light beam diameter with Beam Angle | | 3,06 mt | 5,10 mt | 10,19 mt |
| (50% of center value): | 54,0° | 10.0 ft | 16.7 ft | 33.4 ft |
| Light beam diameter with Field Angle | | 4,77 mt | 7,95 mt | 15,91 mt |
| (10% of center value): | 77,0° | 15.7 ft | 26.1 ft | 52.2 ft |
| FULL FLOOD | DISTANCES | 3 mt | 5 mt | 10 mt |
| | | 9.8 ft | 16.4 ft | 32.8 ft |



| FULL SPOT | | DISTANCES | 3 mt <i>9.8 ft</i> | 5 mt <i>16.4 ft</i> | 10 mt <i>32.8 ft</i> |
|---|------------|-----------|-----------------------|------------------------|-------------------------|
| Illumination center values at Distances | | | 14.570 lux | 5.245 lux | 1.311 lux |
| Central Light intensity (Candle Power) | 131.130 cd | | <i>1,354 FC</i> | <i>487 FC</i> | <i>122 FC</i> |
| Light beam diameter with Beam Angle | | | 0,63 mt | 1,05 mt | 2,10 mt |
| (50% of center value): | 12,0° | | <i>2.07 ft</i> | <i>3.45 ft</i> | <i>6.90 ft</i> |
| Light beam diameter with Field Angle | | | 1,17 mt | 1,94 mt | 3,89 mt |
| (10% of center value): | 22,0° | | <i>3.83 ft</i> | <i>6.38 ft</i> | <i>12.75 ft</i> |

$$\text{LUX AT ANY DISTANCE} = \text{Candle Power} : [\text{Distance(in m.)}]^2$$

$$\text{F.C. AT ANY DISTANCE} = \text{Candle Power} : [\text{Distance(in ft)}]^2$$

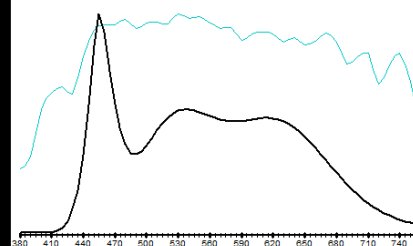
F10-D-HP-FLOOD : CCT = D5451 (+0.8)

TLCI-2012 : 95 (D5451)

Television Lighting Consistency Index-2012



| Sector | Lightness | Chroma | Hue |
|--------|-----------|--------|-----|
| R | 0 | 0 | 0 |
| R/Y | 0 | 0 | - |
| Y | 0 | 0 | - |
| Y/G | 0 | 0 | 0 |
| G | 0 | 0 | 0 |
| G/C | 0 | 0 | 0 |
| C | 0 | 0 | - |
| C/B | 0 | 0 | - |
| B | 0 | - | 0 |
| B/M | 0 | + | 0 |
| M | 0 | 0 | 0 |
| M/R | 0 | 0 | 0 |

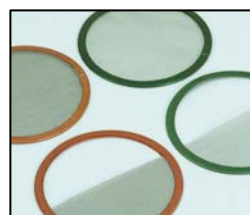


Super LED F10 HP *VERSIONS & MODEL NUMBERS*

| MOD. | DESCRIPTION |
|---|---|
| TUNGSTEN BALANCED CCT (CRI higher than 90) | |
| "F10THP".MO The Model Number for the DIN Spigot Version is "F10THP".MO.DIN | Super LED "F 10 T" HP - high power CRI>90 Tungsten CCT, M.O. LED Fresnel Spotlight including: - Mod. "F10THP".MO.H IP23 Rain Protected M.O. FIXTURE HEAD with - 250 mm. (10") diameter Fresnel lens - PowerCON TRUE 1 IN & OUT PANEL MOUNTED CONNECTORS. - XLR 5 Pin DMX IN & OUT PANEL MOUNTED CONNECTORS. - 230W high power CRI>90 LED with Tungsten Balanced Correlated Color Temperature (CCT) - Built In UNIVERSAL Power Supply 80-270V 50/60Hz DMX controlled, PFC 0,96 - Mod. 5403.435 3 mt. det.ble Mains cable w/ PowerCON TRUE 1 mod. NAC3FX-W and other bare end - Mod. LT320.110.40 M.O. yoke with 28,57 mm. spigot (B.S. 1 1/8"), with top end for "C" clamp - Mod. 326.110 four leaf rotating barndoor - Mod. 327.100 colour frame DMX cable is not included, to be ordered separately |
| "F10THP".PO The Model Number for the DIN Spigot Version is "F10THP".PO.DIN | Super LED "F 10 T" HP - high power CRI>90 Tungsten CCT, P.O. LED Fresnel Spotlight including: - Mod."F10THP".PO.H IP23 Rain Protected P.O. FIXTURE HEAD with - 250 mm. (10") diameter Fresnel lens - POWERCON TRUE 1 IN & OUT PANEL MOUNTED CONNECTORS. - XLR 5 Pin DMX IN & OUT PANEL MOUNTED CONNECTORS. - 230W high power CRI>90 LED with Tungsten Balanced Correlated Color Temperature (CCT) - Built In UNIVERSAL Power Supply 80-270V 50/60Hz DMX controlled, PFC 0,96 - Mod. 5403.435 3 mt. det.ble Mains cable w/ PowerCON TRUE 1 mod. NAC3FX-W and other bare end - Mod. 321.110.40 P.O. yoke with 28,57 mm. spigot (B.S. 1 1/8"), with top end for "C" clamp - Mod. 326.110 four leaf rotating barndoor - Mod. 327.100 colour frame DMX cable is not included, to be ordered separately |
| DAYLIGHT BALANCED CCT (CRI higher than 90) | |
| "F10DHP".MO The Model Number for the DIN Spigot Version is "F10DHP".MO.DIN | Super LED "F 10 D" HP - high power CRI>90 Daylight CCT, M.O. LED Fresnel Spotlight including: - Mod. "F10DHP".MO.H IP23 Rain Protected M.O. FIXTURE HEAD with - 250 mm. (10") diameter Fresnel lens - PowerCON TRUE 1 IN & OUT PANEL MOUNTED CONNECTORS. - XLR 5 Pin DMX IN & OUT PANEL MOUNTED CONNECTORS. - 230W high power CRI>90 LED with Daylight Balanced Correlated Color Temperature (CCT) - Built In UNIVERSAL Power Supply 80-270V 50/60Hz DMX controlled, PFC 0,96 - Mod. 5403.435 3 mt. det.ble Mains cable w/ PowerCON TRUE 1 mod. NAC3FX-W and other bare end - Mod. LT320.110.40 M.O. yoke with 28,57 mm. spigot (B.S. 1 1/8"), with top end for "C" clamp - Mod. 326.110 four leaf rotating barndoor - Mod. 327.100 colour frame DMX cable is not included, to be ordered separately |
| "F10DHP".PO The Model Number for the DIN Spigot Version is "F10DHP".PO.DIN | Super LED "F 10 D" HP - high power CRI>90 Daylight CCT, P.O. LED Fresnel Spotlight including: - Mod. "F10DHP".PO.H IP23 Rain Protected P.O. FIXTURE HEAD with - 250 mm. (10") diameter Fresnel lens - PowerCON TRUE 1 IN & OUT PANEL MOUNTED CONNECTORS. - XLR 5 Pin DMX IN & OUT PANEL MOUNTED CONNECTORS. - 230W high power CRI>90 LED with Daylight Balanced Correlated Color Temperature (CCT) - Built In UNIVERSAL Power Supply 80-270V 50/60Hz DMX controlled, PFC 0,96 - Mod. 5403.435 3 mt. det.ble Mains cable w/ PowerCON TRUE 1 mod. NAC3FX-W and other bare end - Mod. 321.110.40 P.O. yoke with 28,57 mm. spigot (B.S. 1 1/8"), with top end for "C" clamp - Mod. 326.110 four leaf rotating barndoor - Mod. 327.100 colour frame DMX cable is not included, to be ordered separately |
| 5402.503 | DMX DAISY CHAIN CABLE 3 mt. (10') LONG, including: - 3 mt. (10') cable terminated with XLR 5 pin Connectors (male and female) at the ends, to allow daisy chain of DMX fixtures. |

Super LED F10 HP *OPTIONALS & ACCESSORIES*

| | |
|---------------|---|
| LT320.110.40 | Steel tube Manual Operated stirrup with 28,57 mm. spigot (B.S. 1 1/8") with top end for attachment to "C" |
| LT 320.300.40 | Steel tube Manual Operated stirrup with 28,00 mm. spigot (D.I.N.) |
| LT 320.220.40 | Steel tube Manual Operated stirrup with M 12 Threaded hole |
| LT 321.110.40 | Pole operated stirrup with 28,57 mm. spigot (B.S. 1 1/8"), with top end for attachment to "C" clamp. |
| 321.300.40 | Pole operated stirrup with 28,00 mm. spigot (D.I.N.) |
| 325.310 | Stainless Steel wire guard |
| 326.110 | Four leaf rotating barndoor |
| 326.210 | Eight way rotating barndoor |
| 327.100 | Colour Frame |
| 328.100 | Cone with two discs (with front aperture diameter: 190 mm. 150 mm. 110 mm.) |
| 329.100 | Set of scrims - Stainless steel |
| 329.101 | Full single scrim - Stainless steel |
| 329.102 | Full double scrim - Stainless steel |
| 329.103 | 1/2 single scrim - Stainless steel |
| 329.104 | 1/2 double scrim - Stainless steel |
| 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) |
| 15.300 | DIN Spigot 28 mm. to M12 thread stud washer and nut |
| 95.100 | 28,57 mm. (1 1/8") spigot to M12 threaded stud with washer and nut for "C" clamp or stand mounting |
| 20.100 | Safety cable 800 mm. long 4 mm. diameter steel rope and safety catch |
| DGP-A1035 CS | Combo steel stand 35 |
| DGP-A9000N | Wheel set with brakes |



INCREASED OUTPUT Super LED F10 HP versus Super LED F10:

The SUPER LED F10 HP is featuring a relevant increase of Light output if compared to the SUPER LED F10.

The table shows the Main Lighting Parameters comparison between the two products:

| | Super LED | Super LED HP | Super LED | Super LED HP |
|---|----------------------------------|---|----------------------------------|---|
| | Super LED F10T Tungsten CCT 165W | Super LED F10T HP Tungsten CCT 230W | Super LED F10T Daylight CCT 165W | Super LED F10D HP Daylight CCT 230W |
| Measuring distance | 3 mt | 3 mt | 3 mt | 3 mt |
| FULL FLOOD | | Central Light Intensity Increase 45,41% | | Central Light Intensity Increase 18,51% |
| Illumination center values at Distances | 1.491 lux | 2.168 lux | 1.896 lux | 2.247 lux |
| Central Light intensity (Candle Power) | 13.419 cd | 19.512 cd | 17.064 cd | 20.223 cd |
| FULL SPOT | | Increase 0,00% | | Increase 5,08% |
| Illumination center values at Distances | 11.770 lux | 11.770 lux | 13.865 lux | 14.570 lux |
| Central Light intensity (Candle Power) | 105.930 cd | 105.930 cd | 124.785 cd | 131.130 cd |

ENERGY SAVINGS:

The Energy Savings introduced by this products are remarkable.

The following table shows a Comparison of the energy conversion for both Tungsten and Daylight Super LED F10 HP when compared respectively to 2.000W Tungsten Fresnel and to a 800W HMI, which are the equivalent lighting performance conventional fixtures, when analysing the output beam from middle to full flood:

DE SISTI - SUPER LED F10 HP Energy & Thermal Savings versus equivalent Conventional Fixtures

The DE SISTI LED FRESNELS Tungsten are:

- 100% Dimmable locally or via DMX with super smooth dimming dynamics
- No separate DIMMERS required (No Dimmer Room and Simpler Cabling system)
- All self contained in the Luminaire housing (no separate ballasts or power supply)
- Power and DMX Days chain able
- High energy savings when compared to Tungsten Fixtures with negligible POWER REQUIREMENTS and very low Thermal Emission for contained cooling systems in the studio.
- Extremely contained Maintenance (mostly cleaning): no lamps replacement

| ENERGY CONVERSION | |
|--|------|
| Visible Light | 8% |
| IR | 73% |
| UV | 0% |
| Total Radiant Energy | 81% |
| Heat (Conduction + Convection) | 19% |
| Total Power Consumption of Lighting Fixture | 100% |
| Total % of Input Energy converted in Thermal Dissipation | 92% |

ENERGY SAVINGS on LIGHTING FIXTURE consumption with DE SISTI LED
THERMAL EMISSION SAVINGS with DE SISTI LED

| | |
|--|-----------|
| BTU to refrigerate the Dissipation of the Lighting Fixture | 6.280 BTU |
| HVAC Power Consumption to produce the above BTU | 586 W |

Tot. CONSUMPTION in kWhrs in 2600 hrs (typical yearly use)
TOTAL yearly cost for Electricity per Fixture with 1 kWh = 0,2 €

TOTAL ENERGY SAVINGS with DS LEDS
= on LIGHTING FIXTURE + HVAC consumption

| SUPER LED F10 HP 230W Tungsten balanced CCT Energy & Thermal Savings versus equivalent Filament Fixture | | | |
|---|---------|---|-------|
| The lighting Performances of the 230W Tungsten Balanced CCT are comparable from medium to full flood to those of a 2.000W tungsten Fresnels | | | |
| Tungsten Fresnel | 2.000 W | LED Fresnel | 288 W |
| Visible Light | 8% | 25% | 72 W |
| IR | 73% | 0% | 0 W |
| UV | 0% | 0% | 0 W |
| Total Radiant Energy | 81% | 0% | 0 W |
| Heat (Conduction + Convection) | 19% | 75% | 216 W |
| Total Power Consumption of Lighting Fixture | 100% | 100% | 288 W |
| Total % of Input Energy converted in Thermal Dissipation | 92% | 75% | 216 W |
| 86% | | Using the DE SISTI LED instead of Tungsten Fixtures | |
| 88% | | | |
| 6.280 BTU | | 737 BTU | |
| 586 W | | 69 W | |
| 6.724 kWh | | 928 kWh | |
| € 1.344,79 | | € 185,54 | |
| Per Fixture Savings € 1.159,2 | | Per Fixture Savings in % 86% | |

| ENERGY CONVERSION | |
|--|------|
| Visible Light | 27% |
| IR | 17% |
| UV | 19% |
| Total Radiant Energy | 63% |
| Heat (Conduction + Convection) | 37% |
| Total Power Consumption of Lighting Fixture | 100% |
| Total % of Input Energy converted in Thermal Dissipation | 73% |

ENERGY SAVINGS on LIGHTING FIXTURE consumption with DE SISTI LED
THERMAL EMISSION SAVINGS with DE SISTI LED

| | |
|--|-----------|
| BTU to refrigerate the Dissipation of the Lighting Fixture | 1.993 BTU |
| HVAC Power Consumption to produce the above BTU | 186 W |

Tot. CONSUMPTION in kWhrs in 2600 hrs (typical yearly use)
TOTAL yearly cost for Electricity per Fixture with 1 kWh = 0,2 €

TOTAL ENERGY SAVINGS with DS LEDS
= on LIGHTING FIXTURE + HVAC consumption

| SUPER LED F10 HP 230W Daylight balanced CCT Energy & Thermal Savings versus equivalent Filament Fixture | | | |
|--|-------|--|-------|
| The lighting Performances of the 230W Daylight Balanced CCT are comparable from medium to full flood to those of a 800W HMI Fresnel. | | | |
| HMI Fresnel | 800 W | LED Fresnel | 288 W |
| Visible Light | 27% | 25% | 72 W |
| IR | 17% | 0% | 0 W |
| UV | 19% | 0% | 0 W |
| Total Radiant Energy | 63% | 0% | 0 W |
| Heat (Conduction + Convection) | 37% | 75% | 216 W |
| Total Power Consumption of Lighting Fixture | 100% | 100% | 288 W |
| Total % of Input Energy converted in Thermal Dissipation | 73% | 75% | 216 W |
| 64% | | Using the DE SISTI LED instead of Discharge Fixtures | |
| 63% | | | |
| 1.993 BTU | | 737 BTU | |
| 186 W | | 69 W | |
| 2.564 kWh | | 928 kWh | |
| € 512,74 | | € 185,54 | |
| Per Fixture Savings € 327,2 | | Per Fixture Savings in % 64% | |

DE SISTI LED FRESNELS – LIGHTING QUALITY FIRST:

When choosing a FRESNEL you are expecting:

- Appropriate and effective Focusing Range from Spot to Flood
- Single shadows and their consistency within the Flood Field
- Even and wide Flood with appropriate Barn-door capability

This is exactly what you get with the DE SISTI LED FRESNELS.

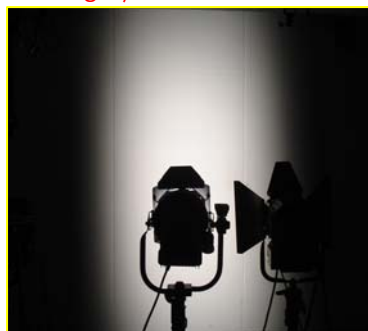
The Internationally Patented Optical system specifically developed by DE SISTI to optimize the use of a LED Engine Technology in combination with a Fresnel Lens (or a Plano Convex) is providing to the DE SISTI LED FRESNELS the exact same lighting projection you would expect from a Standard Fresnel.

The following EXAMPLE SHOWS a COMPARISON between:

LED FIXTURE by "OTHERS" NOT REAL FRESNEL performances



- The Beam in full flood is NARROW (only 45°) and shows an HOT SPOT (large area to go from Beam to Field Angle)



- The Barndoor in a NOT REAL FRESNEL optics does not work properly: the projection is OVAL and the more you barndoor the more you dim the central beam



LED FIXTURE by "DE SISTI" EXACT FRESNEL performances



- The Beam in full flood is LARGE (above 60°), even and flat (No Hot Spots and rapid passage from Beam to Field Angle)



- The Barndoor on the DE SISTI LED FRESNEL has exactly the same functionality obtained with a PROPER FRESNEL optics.