



### OVERVIEW

The Super LED F10 is a high efficiency Fresnel lens spotlight using the innovative High Power 180W COB (Chip on Board) LED ARRAY, in combination with the DE SISTI Internationally Patented optical system for LED FRESNEL and with an enhanced CRI (Color Rendering Index) higher than 96 for appropriate chromacity performances.

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 F10 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 96 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 2000W tungsten Fresnels, while the Daylight Balanced CCT is similar to a 700W 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
F10T.MO	Super LED F10 T - Tungsten CCT, Manual Operated
F10T.P0	Super LED F10 T - Tungsten CCT, Pole Operated
F10D.MO	Super LED F10 D - Daylight CCT, Manual Operated
F10D.P0	Super LED F10 D - Daylight CCT, Pole Operated



### **WHAT'S INSIDE**

### **FIXTURE HEAD**

250 mm. (10") diameter Fresnel lens POWERCON IN & OUT PANEL CONNECTORS. XLR 5 Pin DMX IN & OUT PANEL CONNECTORS. 180W high power CRI>96 Built In Universal Power Supply 90-250V 50/60Hz DMX controlled.

### YOKES

### **Manual Operated Versions**

Mod. LT320.110.40 M.O. yoke with 28,57 mm (B.S. 11/8") with top end for "C" clamp

### **Pole Operated Versions**

Mod. 321.110.40 P.O. yoke with 28,57 mm. spigot (B.S. 11/8"), with top end for "C" clamp

### **ACCESSORIES**

Mod. 326.100 four leaf rotating barndoor Mod. 327.100 color frame

### **CABLES**

 $\,$  Mod. 5403.135 3 mt. (9.8 ft) detachable Blue  $\,$  POWERCON power cable with bare ends.

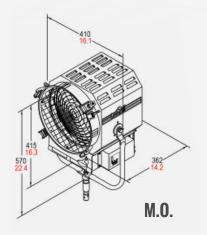
DMX cable is not included, to be ordered separately

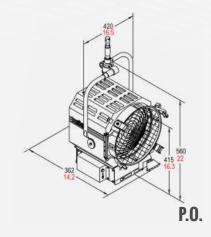


### SUPER LEDF10

	FEATURES			
Power to LED	180W - DC current to the LED - flicker free			
Rated Voltage & PFC	90-250V 50-60Hz PFC 0,96			
Power consumption	210W @ 230V   210W @120V			
Power Connection	powerCON 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	55.000 hours with 90% Lumen Maintenance. The LED ARRAYS are tested and certified up to LM80			
CCT	T: 3.200°K D: 5.600°K			
CRI / TLCI	<b>T:</b> 97 / 96 <b>D:</b> 96 / 97			
Protection Type	IP20			
Max. Housing Surface Temperature	70° C			
Weight of Fixture	<b>M.O.</b> 13,5 Kg (29.7 lb) <b>P.O.</b> 14,8 Kg (32.5 lb)			
Weight of Barndoor	4 leaf 1,4 Kg (3.09 lb)   8 leaf 1,65 Kg (3.64 lb)			
Weight of color frame	0,28 Kg (0.62 lb)			
Barndoor ring diameter	Seat: 314mm / 12 1/3" - Accessory: 313mm / 12 1/3"			
Scrims & color frame diameter	Seat 306mm / 12" - Accessory: 305mm / 12"			
Lens diameter	250mm / 10"			

### **DIMENSION**





### **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 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.



# SUPER LED F 10

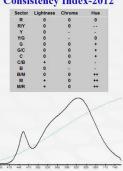
### TLCI

### **TUNGSTEN CCT**

De Sisti SUPER LED F10 - 180W - Tungsten : CCT = P3065 (+0.4) TLCI-2012: 96 (P3065)



Television Lighting Consistency Index-2012



### **DAYLIGHT CCT**

De Sisti SUPER LED F10 - 180W - Daylight : CCT = D5850 (+1.2)



Television Lighting Consistency Index-2012

RY 0 0 0 YYG 0 YG 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
YG 0
Y/G 0 0 0 0 0 G/G 0 0 0 0 0 0 0 0 0 0 0 0
G 0 0 0 0 0 0 C C + 0 B 0 B/M 0 0 + M 0 0 + M
G/C 0 0 0 0 C C + 0 B 0 B 0 + 0 HM 0 0 + HM 0 0 + HM 0 0 0 + HM 0 0 0 + HM 0 0 0 0 + HM 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
C + 0 - C/B + 0 B 0 B/M 0 0 +
C/B + 0 B 0 B/M 0 0 + M 0 0 +
B 0 B/M 0 0 + M 0 0 +
B/M 0 0 + M 0 0 +
M 0 0 +
M/R + 0 0

### **PHOTOMETRICS**

### // SUPER LED F10

Central Light intensity (Candle Power)

Illumination center values at Distances

Central Light Inten	sity (Candle Power)	Illum	ination center values at Distan	ices
3.200°K	TUNGSTEN BALANCED C.C.	T. (Correlated Color Temp	erature) - 180W (CRI 97) -	TLCI: 96
FLOOD	22.500 cd	2.500 lux <b>232 FC</b>	900 lux <b>84 FC</b>	225 lux <b>21 FC</b>
SPOT	170.100 cd	18.900 lux <i>1,756 FC</i>	6.804 lux <i>632 FC</i>	1.701 lux <i>158 FC</i>
5.600°K	DAYLIGHT BALANCED C.C.	T. (Correlated Color Tempo	erature) - 180W (CRI 96) -	TLCI: 97
FLOOD	24.300 cd	2.700 lux <b>251 FC</b>	972 lux <b><i>90 FC</i></b>	243 lux <b>23 FC</b>
SPOT	178.200 cd	19.800 lux <i>1,839 FC</i>	7.128 lux <i>662 FC</i>	1.782 lux <b>166 FC</b>
		3 mt <i>9.8 ft</i>	5 mt <i>16.4 ft</i>	10 mt 32.8 ft
	FLOOD SPOT			
<del>-</del>	FLOOD			
	ter with Beam Angle enter value)	3 mt <i>9.8 ft</i>	5 mt <i>16.4 ft</i> Beam Sizes	10 mt 32.8 ft
FLOOD	55°	3,12 mt <i>10.2 ft</i>	5,21 mt <i>17.1 ft</i>	10,41 mt <i>34.2 ft</i>
SPOT	12°	0,63 mt <b>2.1 ft</b>	1,05 mt <b>3.4 ft</b>	2,10 mt <i>6.<b>9</b> ft</i>
Light beam diame (10% of c	ter with Field Angle enter value)		000	
FLOOD	75°	4,60 mt <i>15.1 ft</i>	7,67 mt <b>25.2 ft</b>	15,35 mt <i>50.3 ft</i>
SPOT	23°	1,22 mt <b>4.0 ft</b>	2,03 mt <i>6.7 ft</i>	4,07 mt <i>13.4 ft</i>

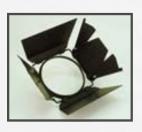
LUX AT ANY DISTANCE = Candle Power: [Distance(in m.)]<sup>2</sup>

EC. AT ANY DISTANCE = Candle Power: [Distance(in ft)]<sup>2</sup>



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### **OPTIONALS & ACCESSORIES**

F10X.XO.DIN	adder code to order DIN Spigot		
325.310	Stainless Steel wire guard		
326.100	Four leaf rotating barndoor		
326.200	Eight way rotating barndoor		
327.100	Color Frame		
328.100	Cone with two discs (with front aperture diameter: 70 mm. 50 mm. 30 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)		
93.102	Extruded black "C" clamp with M 12 threaded stud		
93.103	Extruded black "C" clamp with M 10 threaded stud		
20.100	Safety cable 800 mm. long with 4 mm. diameter steel rope and safety catch.		
LT320.110.40	Steel tube Manual Operated stirrup with 28,57 mm. spigot (B.S. 1 1/8"), with top end attachment to "C"clamp.		
LT320.300.40	Steel tube Manual Operated stirrup with 28,00 mm. spigot (D.I.N 1 1/9")		
LT320.220.40	Steel tube Manual Operated stirrup with M 12 Threaded hole		
LT321.110.40	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 1 1/9")		

