

Data Sheet Led Power 360W – Consumption 400W – PFC 0,96

LED Fresnel SPOTLIGHT CRI greater than 90

Super LED F14

White light, either Tungsten or Daylight balanced Correlated Colour Temperature



International Patent N° WO 2013/024501 A1 Advanced Optics for LED Projector with FRESNEL or PLANAR-CONVEX Lens

OVERVIEW

The Super LED F14 is an HIGH OUTPUT LED 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 360W High CRI COB LED ARRAYs.
- 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 to those of a 3kW tungsten Fresnels, while the Daylight Balanced CCT is equivalent to a 1.200W.

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

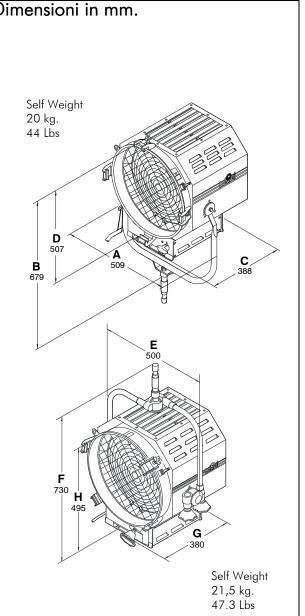
- 350 mm. (14") diameter high quality, shock resistant Borosilicate glass Fresnel lens on spring supports.
- Rugged and Lightweight Carbon Steel housing with low glare black epoxy powder coating, with internal double walls and reinforces.
- High efficiency Self Stabilizing Active Cooling: Automatic, 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.



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CHARACTERISTICS & PERFORMANCE DATA

DESC	RIPTION	VA	LUE		
Power	to LED		60W he LED (no flicker)		
Power Consul	mption	Europe 400W @ 230 V 50-60 Hz	America 400W @ 120 V 50-60 Hz		
DMX D USITT D	ata link MX512-A	This product uses a 5-pin output. Use a shielded data cable Do not overload the daisy of 32 devices can be used	es. y chain. Up to a maximum		
⇒ DMX C	Channels	1 at 8bit: Dimmer 2 at 16bit: Dimmer			
⇒ LED AF	RRAY Lifetime	50.000 hours with 70% Lumen Maintenance. The LED ARRAYS are tested and certified up to LM80			
Protect	ion Type	IP 23 (Raii	n Protection)		
Max. H Surface Tempe	е	70)° C		
 Weight 	t of Fixture	M.O. 20 kg.	P.O. 21,5 kg.		
 Weight Barndo 		4 leaf 1,85 kg.	8 leaf 2,1 kg.		
 Size of ring 	Barndoor	Seat Diameter 402 mm.	Ring Diameter 399 mm.(≅15" _{3/4})		
 Weight frame 	t of color		5 kg.		
 Size of color fi 		Seat Diameter 395 mm.	Accessory Diameter 393 mm (≅15" _{1/2})		
Lens di	iameter	350) 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.



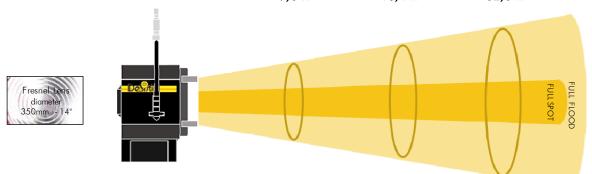


PHOTOMETRIC DATA

PHOTOMETRIC DATA SUPER LED F14T, 360W to the LED, 400W Power Consumption, CRI 97

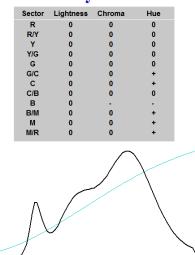
C.C.T. (Correlated Color Temperature) balanced to match 3.200°K TUNGSTEN LAMPS

Illumination center values at Dist	ances	3.774 lux	1.359 lux	340 lux	
Central Light intensity (Candle Power)	33.966 cd	<i>351 FC</i>	<i>126 FC</i>	<i>32 FC</i>	
Light beam diameter with Beam /	Angle	2,86 mt	4,77 mt	9,54 mt	
(50% of center value):	51,0°	<i>9,4 ft</i>	15,6 ft	31,3 ft	
Light beam diameter with Field /	Angle	4,52 mt	7,54 mt	15,07 mt	
(10% of center value):	74,0°	14,8 ft	24,7 ft	49,4 ft	
FULL FLOOD	DISTANCES	3 mt 9,8 ft	5 mt 1 <i>6,4 ft</i>	10 mt 32,8 ft	



FULL SPOT	DISTANCES	3 mt 9,8 ff	5 mt 1<i>6,4 ft</i>	10 mt 32,8 ft
Illumination center values at D	listances	19.878 lux	7.156 lux	1.789 lux
Central Light intensity (Candle Power)	178.902 cd	1.847 FC	665 FC	166 FC
Light beam diameter with Bear	n Angle	0,63 mt	1,05 mt	2,10 mt
(50% of center value):	12,0°	2,1 ft	3,4 ft	6,9 ft
Light beam diameter with Field	d Angle	1,17 mt	1,94 mt	3,89 mt
(10% of center value):	22,0°	3,8 ft	6,4 ft	12,8 ft
LUX AT ANY DISTANCE = Ca	ndle Power : [Distance(ii	n m.)] ²	F.C. AT ANY DISTANCE = 0	Candle Power : [Distance(in ft)] ²

Television Lighting Consistency Index-2012



710 740 680

International Patent N° WO 2013/024501 A1 Advanced Optics for LED Projector with FRESNEL or PLANAR-CONVEX Lens

F14-T-FLOOD : CCT = P3105 (+0.4) TLCI-2012 : 96 (P3105)



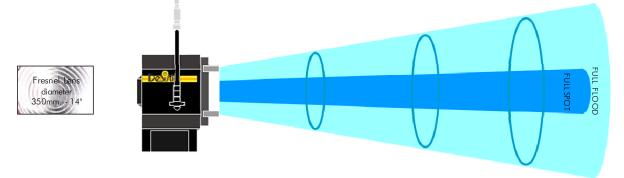


PHOTOMETRIC DATA

PHOTOMETRIC DATA SUPER LED F14D, 360W to the LED, 400W Power Consumption, CRI 95

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

Illumination center values at Dist	ances	4.367 lux	1.572 lux	393 lux	
Central Light intensity (Candle Power)	39.303 cd	406 FC	<i>146 FC</i>	<i>37 FC</i>	
Light beam diameter with Beam /	Angle	2,86 mt	4,77 mt	9,54 mt	
(50% of center value):	51,0°	<i>9,4 ft</i>	15,6 ft	<i>31,3 ft</i>	
Light beam diameter with Field A	Angle	4,52 mt	7,54 mt	15,07 mt	
(10% of center value):	74,0°	14,8 ft	24,7 ft	49,4 ft	
FULL FLOOD	DISTANCES	3 mt 9,8 ft	5 mt 1 <i>6,4 ft</i>	10 mt 32,8 ft	

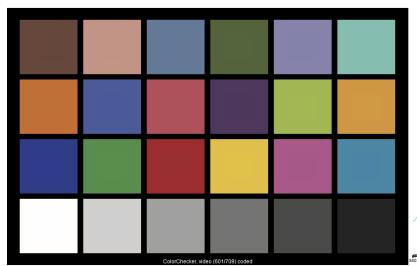


FULL SPOT	DISTANCES	3 mt <i>9,8 ft</i>	5 mt 1 <i>6,4 ft</i>	10 mt 32,8 ft	
Illumination center values at C Central Light intensity (Candle Power)		22.840 lux <i>2.122 FC</i>	8.222 lux <i>764 FC</i>	2.056 lux <i>191 FC</i>	
Light beam diameter with Bea (50% of center value):	Ŭ	0,63 mt <i>2,07 ft</i>	1,05 mt 3,45 ft	2,10 mt <i>6,90 ft</i>	
Light beam diameter with Fiel (10% of center value):		1,17 mt <i>3,83 ft</i>	1,94 mt <i>6,38 ft</i>	3,89 mt 1 <i>2,75 ft</i>	

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

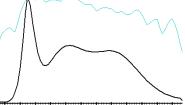
F.C. AT ANY DISTANCE = Candle Power : [Distance(in ft)] 2

F14-D-FLOOD : CCT = D5651 (+0.7) TLCI-2012 : 95 (D5651)



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
С	0	0	-
C/B	0	0	
в	0	-	0
B/M	0	+	0
М	0	0	0
M/R	0	0	0



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Super LED F14

VERSIONS & MODEL NUMBERS

MOD.	DESCRIPTION
	TUNGSTEN BALANCED CCT (CRI higher than 90)
"F14T".MO	Super LED "F 14 T" - high power CRI>90 Tungsten CCT, M.O. LED Fresnel Spotlight including: - Mod. "F14T".MO.H IP23 Rain Protected M.O. FIXTURE HEAD with
The Model Number for the DIN Spigot Version is "F14T".MO.DIN	 - 350 mm. (14") diameter Fresnel lens - PowerCON TRUE 1 IN & OUT PANEL MOUNTED CONNECTORS. - XLR 5 Pin DMX IN & OUT PANEL MOUNTED CONNECTORS. - 360W 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. 1530.110.40 M.O. yoke with 28,57 mm. spigot (B.S. 1 1/8"), with top end for "C" clamp - Mod. 356.110 four leaf rotating barndoor - Mod. 357.300 colour frame
	DMX cable is not included, to be ordered separately
"F14T".PO	Super LED "F 14 T" - high power CRI>90 Tungsten CCT, P.O. LED Fresnel Spotlight including:
The Model Number for the DIN Spigot Version is "F14T".PO.DIN	 Mod."F14T".PO.H IP23 Rain Protected P.O. FIXTURE HEAD with 350 mm. (14") diameter Fresnel lens POWERCON TRUE 1 IN & OUT PANEL MOUNTED CONNECTORS. XLR 5 Pin DMX IN & OUT PANEL MOUNTED CONNECTORS. 360W 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. 351.110.40 P.O. yoke with 28,57 mm. spigot (B.S. 1 1/8"), with top end for "C" clamp Mod. 356.110 four leaf rotating barndoor Mod. 357.300 colour frame DMX cable is not included, to be ordered separately
	DAYLIGHT BALANCED CCT (CRI higher than 90)
"F14D".MO	Super LED "F 14 D" - high power CRI>90 Daylight CCT, M.O. LED Fresnel Spotlight including: - Mod. "F14D".MO.H IP23 Rain Protected M.O. FIXTURE HEAD with - 350 mm. (14") diameter Fresnel lens
The Model Number for the DIN Spigot Version is "F14D".MO.DIN	 PowerCON TRUE 1 IN & OUT PANEL MOUNTED CONNECTORS. XLR 5 Pin DMX IN & OUT PANEL MOUNTED CONNECTORS. 360W 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. LT350.110.40 M.O. yoke with 28,57 mm. spigot (B.S. 1 1/8"), with top end for "C" clamp Mod. 356.110 four leaf rotating barndoor Mod. 357.300 colour frame DMX cable is not included, to be ordered separately
"F14D".PO	Super LED "F 10 D" - high power CRI>90 Daylight CCT, P.O.
The Model Number for the DIN Spigot Version is "F14D".PO.DIN	 LED Fresnel Spotlight including: Mod. "F14D".PO.H IP23 Rain Protected P.O. FIXTURE HEAD with 350 mm. (14") diameter Fresnel lens PowerCON TRUE 1 IN & OUT PANEL MOUNTED CONNECTORS. XLR 5 Pin DMX IN & OUT PANEL MOUNTED CONNECTORS. XLR 5 Pin DMX IN & OUT PANEL MOUNTED CONNECTORS. 360W 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. 351.110.40 P.O. yoke with 28,57 mm. spigot (B.S. 1 1/8"), with top end for "C" clamp Mod. 357.300 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 F14 OPTIONALS & ACCESSORIES

MOD.	Super LED "F 14" - OPTIONALS & ACCESSORIES
LT350.110.40	Steel tube (M.O.) stirrup with 28,57 mm. spigot (B.S.1 1/8") with top end for attachment to "C" clamp
LT350.300.40	Steel tube (M.O.) stirrup with 28,00 mm. spigot (D.I.N)
351.110.40	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.)
355.310	Stainless Steel wire guard
356.110	Four leaf rotating barndoor
356.210	Eight way rotating barndoor
357.300	Colour frame
358.100	Cone with two discs (with front aperture diameter: 275 mm. 215 mm. 155 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 colour frame
397.110	Outrigger colour 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)
15.300	DIN SPIGOT 28 mm, to M12 thread stud with 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 with 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 F14 versus Super LED F10 HP:

The SUPER LED F14 is featuring a relevant increase of Light output if compared to the		Super LED F10T HP	Super LED F14	Super LED F10T HP	Super LED F14
SUPER LED F 10 HP.		Super LED F10T HP Tungsten CCT	Super LED F14T Tungsten CCT	Super LED F10D HP Daylight CCT	Super LED F14D Daylight CCT
The table shows the Main Lighting		230W	360W	230W	360W
Parameters comparison between the two	Measuring distance	3 mt	3 mt	3 mt	3 mt
products:			Central Light Intensity Increase		Central Light Intensity Increase
	FULL FLOOD		74,08 %		94,35 %
	Illumination center values at Distances	2.168 lux	3.774 lux	2.247 lux	4.367 lux
	Central Light intensity (Candle Power)	19.512 cd	33.966 cd	20.223 cd	39.303 cd
			Increase		Increase
	FULL SPOT		68,89 %		56,76 %
	Illumination center values at Distances	11.770 lux	19.878 lux	14.570 lux	22.840 lux
	Central Light intensity (Candle Power)	105.930 cd	178.902 cd	131.130 cd	205.560 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 F14 when compared respectively to 3.000W Tungsten Fresnel and to a 1.200W HMI, which are the equivalent lighting performance conventional fixtures, when analysing the output beam from middle to full flood:

DE SISTI - SUPER LED F14 Energy & Thermal Savings versus equivalent Conventional Fixtures

he 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 Daysy 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	The lighting Perfo	SUPER LEE 360W Tungsten b "hermal Savings versus rmances of the 360W T od, are comparable and Fresnels	alanced CCT s equivalent Filame ungsten Balanced C	CT from
ENERGY CONVERSION	Tungsten Fresnel	3.000 W	LED Fresnel	400 W
Visible Light	8%	240 W	25%	100 W
IR UV	73% 0%	2.190 W 0 W	0% 0%	0 W 0 W
Total Radiant Energy	81%	2.430 W	0%	o w
Heat (Conduction + Convection)	19%	570 W 3.000 W	75%	300 W
Total Power Consumption of Lighting Fixture Total % of Input Energy converted in Thermal Dissipation	100% 92%	2.760 W	100% 75%	400 W 300 W
ENERGY SAVINGS on LIGHTING FIXTURE consumptiom with DE SISTI LED THERMAL EMISSION SAVINGS with DE SISTI LED	87% 89%	Using the DE SISTI LED ins	stead of Tungsten Fixtur	es
BTU to refrigerate the Dissipation of the Lighting Fixture		9.420 BTU		1.024 BTU
HVAC Power Consumption to produce the above BTU		879 W		96 W
Tot. CONSUMPTION in kWhrs in 2600 hrs (typical yearly use)		10.086 kWh		1.288 kWh
TOTAL yearly cost for Electricity per Fixture with 1 kWh = 0,2 \in		€ 2.017,18		€ 257,69
TOTAL ENERGY SAVINGS with DS LEDS = on LIGHTING FIXTURE + HVAC consumptiom	Per Fixture Savings		Per Fixture Savings in %	87%
The DE SISTI LED FRESNELS Daylight are: much less expensive then equivalent HMIs fixtures		SUPER LED 360W Daylight b	alanced CCT	
he DE SISTI LED FRESNELS Daylight are: much less expensive then equivalent HMIs fixtures They are 100% Dimmable locally or via DNX with super smooth dimming dynamics All self contained in the Luminaire housing (no separate ballasts or power supply) Power and DMX Daysy chain able Yet introduce significant energy savings when compared to HMIs	The lighting Perfo	360W Daylight b nal Savings versus equ Fixture rmances of the 360W D comparable and slightly o	alanced CCT ivalent Daylight Di e Daylight Balanced CC	CT from medium
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The DE SISTI LED FRESNELS Daylight are: much less expensive then equivalent HMIs fixtures They are 100% Dimmable locally or via DMX with super smooth dimming dynamics All self contained in the Luminaire housing (no separate ballasts or power supply) Power and DMX Daysy chain able Yet introduce significant energy savings when compared to HMIs Extremely contained Maintenance (mostly cleaning): no expensive lamps replacement ENERGY CONVERSION Visible Light IR UV Total Radiant Energy	The lighting Perfo to full flood, are c 1.200W HMI Fre HMI Fresnel 27% 17% 17% 19% 63%	360W Daylight b nal Savings versus equ Fixture rmances of the 360W E comparable and slightly or senel. 1.200 W 324 W 204 W 228 W 756 W	alanced CCT ivalent Daylight Di e baylight Balanced CC outperforming thos LED Fresnel 25% 0% 0% 0%	CT from medium e of a a 400 W 100 W 0 W 0 W 0 W
he DE SISTI LED FRESNELS Daylight are: much less expensive then equivalent HMIs fixtures They are 100% Dimmable locally or via DMX with super smooth dimming dynamics All self contained in the Luminaire housing (no separate ballasts or power supply) Power and DMX Daysy chain able Yet introduce significant energy savings when compared to HMIs Extremely contained Maintenance (mostly cleaning): no expensive lamps replacement ENERGY CONVERSION Visible Light IR UV Total Radiant Energy Heat (Conduction + Convection) Total Power Consumption of Lighting Fixture Total % of Input Energy converted in Thermal Dissipation	The lighting Perfort to full flood, are c 1.200W HMI Fre HMI Fresnel 27% 17% 17% 19% 63% 37% 100% 73%	360W Daylight b nal Savings versus equ Fristur rmances of the 360W D comparable and slightly sisnel. 1.200 W 228 W 204 W 228 W 756 444 W 1.200 W	alanced CCT ivalent Daylight Di e avaylight Balanced CC outperforming thos LED Fresnel 25% 0% 0% 0% 0% 75% 100%	CT from medium e of a a 400 W 100 W 0 W 0 W 0 W 300 W 400 W
The DE SISTI LED FRESNELS Daylight are: much less expensive then equivalent HMIs fixtures They are 100% Dimmable locally or via DMX with super smooth dimming dynamics All self contained in the Luminaire housing (no separate ballasts or power supply) Power and DMX Days chain able Yet introduce significant energy savings when compared to HMIs Extremely contained Maintenance (mostly cleaning): no expensive lamps replacement ENERGY CONVERSION Visible Light IR UV Total Radiant Energy Heat (Conduction + Convection)	The lighting Perfor to full flood, are c 1.200W HMI Fre HMI Fresnel 27% 17% 19% 63% 37% 100%	360W Daylight b nal Savings versus equ Fristur rmances of the 360W D comparable and slightly sisnel. 1.200 W 228 W 204 W 228 W 756 444 W 1.200 W	alanced CCT ivalent Daylight Di e Paylight Balanced CC poutperforming thos LED Fresnel 25% 0% 0% 0% 75% 100% 75%	2T from medium e of a a 400 W 0 W 0 W 0 W 300 W 300 W
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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:

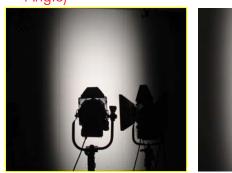
LED FIXTURE by "OTHERS" NOT REAL FRESNEL performances



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



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

