



Super LED F4.7

60 W High Power – Enhanced CRI

LED Fresnel SPOTLIGHT CRI greater than 90

White light, either Tungsten or Daylight balanced Correlated Colour Temperature





OVERVIEW

The Super LED F4.7 is a high efficiency Fresnel lens spotlight using the innovative High Power 60W 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 90 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 LED MAGIS 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 90 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 750W tungsten Fresnels, while the Daylight Balanced CCT is similar to a 250W 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, Colour Frame, Cones, scrims.

FEATURES

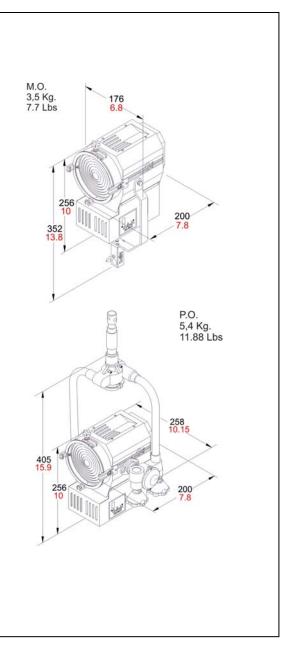
- 120 mm. (4.75") diameter high quality, shock resistant Borosilicate glass Fresnel lens on spring supports.
- Rugged and Lightweight Carbon Steel housing with low glare black epoxy powder coating, with internal double walls and reinforces.
- High efficiency Self Stabilizing Active Cooling: Automatic, 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.
- 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 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.
- 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.



Desiti

CHARACTERISTICS & PERFORMANCE DATA

	DESCRIPTION	VA	LUE
n	Power to LED	-	0W ne LED (no flicker)
Ð	Power Consumption	Europe 71W @ 230 V 50-60 Hz	America 75W @ 120 V 50-60 Hz
0	DMX Data link USITT DMX512-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. v chain. Up to a maximum
0	DMX Channels	1 at 8bit: Dimmer 2 at 16bit: Dimmer	
e	LED ARRAY Lifetime	50.000 hours with Maintenance. The tested and certified	LED ARRAYS are
Э	Protection Type	IP	22
0	Max. Housing Surface Temperature	70)° C
Ð	Weight of Fixture	M.O. 3,5 kg.	P.O. 5,4 kg.
O	Weight of Barndoor	4 leaf 0,3 kg.	8 leaf 0,4 kg.
0	Size of Barndoor ring		meter 3 mm
0	Weight of color frame		3 kg.
•	Size of scrims & color frame		meter 9 mm
Э	Lens diameter		m. 4.75″



POWER AND DMX DAISY CHAIN



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

For DMX:

- 1 XLR5 pin Panel Mount Male & Female (DMX IN & OUT) For Mains Supply
- 1 20A Powercon NAC3MPA BLUE (POWER IN)
- 1 20A Powercon NAC3MPB WHITE (POWER OUT)





PHOTOMETRIC DATA

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

PHOTOMETRIC DATA SUPER LED F4.7T - 60W (CRI 92)

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

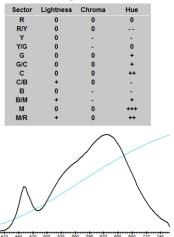
ances	885 lux	319 lux	80 lux
	00 50	00 F 0	7.50
.965 cd	82 FC	30 FC	7 FC
ngle	2,24 mt	3,74 mt	7,48 mt
41,0°	7,4 ft	12,3 ft	24,5 ft
ngle	3,75 mt	6,25 mt	12,50 mt
64,0°	12,3 ft	20,5 ft	41,0 ft
	3 mt	5 mt	10 mt
DISTANCES	9,8 ft	16,4 ft	32,8 ft
			\wedge
		\wedge	
	\wedge		
			FULL FLOOD
			P Q
	V		
		V	
		_	
DISTANCES			10 mt
			32,8 ft
			322 lux
2.220 cd	333 FC	120 FC	30 FC
ngle	0,63 mt	1,05 mt	2,10 mt
12,0°	2,1 ft	3,4 ft	6,9 ft
ngle	1,17 mt	1,94 mt	3,89 mt
	ngle 64,0° DISTANCES DISTANCES DISTANCES 2.220 cd ungle 12,0°	41,0° 7,4 ft ngle 3,75 mt 64,0° 12,3 ft DISTANCES 3 mt 9,8 ft DISTANCES 3 mt 2,8 ft DISTANCES 3,80 lux 2,220 cd 333 FC ngle 0,63 mt 12,0° 2,1 ft	angle 2,24 mt 3,74 mt 41,0° 7,4 ft 12,3 ft ngle 3,75 mt 6,25 mt 64,0° 12,3 ft 20,5 ft DISTANCES 3 mt 5 mt 9,8 ft 16,4 ft DISTANCES 3 mt 5 mt 9,8 ft 16,4 ft 0 3 mt 5 mt 9,8 ft 16,4 ft 0 3 mt 5 mt 10 stances 3.580 lux 1.289 lux 2.220 cd 333 FC 120 FC ngle 0,63 mt 1,05 mt 12,0° 2,1 ft 3,4 ft

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

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



Television Lighting Consistency Index-2012



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



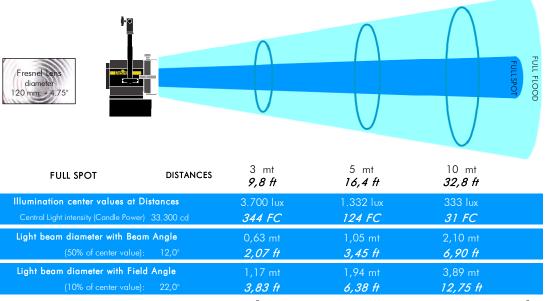
PHOTOMETRIC DATA

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

PHOTOMETRIC DATA SUPER LED F4.7D - 60W (CRI 95)

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

Illumination center values at Distances	890 lux	320 lux	80 lux
Central Light intensity (Candle Power) 8.010 cd	83 FC	<i>30 FC</i>	7 FC
Light beam diameter with Beam Angle	2,24 mt	3,74 mt	7,48 mt
(50% of center value): 41,0°	7,4 ft	1<i>2,3 ft</i>	24,5 ft
Light beam diameter with Field Angle	3,75 mt	6,25 mt	12,50 mt
(10% of center value): 64,0°	12,3 ft	<i>20,5 ft</i>	<i>41,0 ft</i>
FULL FLOOD DISTA	NCES 3 mt	5 mt	10 mt
	9,8 ft	1 <i>6,4 ft</i>	32,8 ft



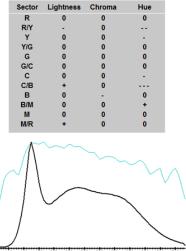
LUX AT ANY DISTANCE = Candle Power : [Distance(in m.)] 2

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

De Sisti Super LED F4.7D – 60W : CCT = D5851 (+0.8) TLCI-2012 : 93 (D5851)

Lightness Sector Chroma R 0 0 R/Y Y/G G/C C/B B/M 0 0 0 0 0 0 0 0 0 0 0 0 0 M M/R 0 0 0 680

Television Lighting Consistency Index-2012







Super LED F4.7 VERSIONS & MODEL NUMBERS

MOD.	DESCRIPTION
	TUNGSTEN BALANCED CCT (CRI higher than 90)
"F4.7T".MO	Super LED "F 4.7 T" - high power CRI>90 Tungsten CCT, M.O. LED Fresnel Spotlight including: • Mod. "F 4.7T".MO.H M.O. FIXTURE HEAD with • 120 mm. (4.75") diameter Fresnel lens • POWERCON IN & OUT PANEL MOUNTED CONNECTORS. • XLR 5 Pin DMX IN & OUT PANEL MOUNTED CONNECTORS. • 60W high power CRI>90 LED with Tungsten Balanced Correlated Color Temperature (CCT) • Built In Universal Power Supply 120-230-240V 50/60Hz DMX controlled. • Mod. 5403.135 3 mt. detachable Blue POWERCON power cable with bare ends • Mod. LT300.100.40 M.O. stirrup with 16 mm. Socket • Mod. 306.100 four leaf rotating barndoor • Mod. 307.100 colour frame DMX cable is not included, to be ordered separately
"F4.7T".PO	Super LED "F 4.7 T" - high power CRI>90 Tungsten CCT, P.O. Pan & Tilt (Manual focus) LED Fresnel Spotlight including: - Mod. "F4.7T".MO.H M.O. FIXTURE HEAD with - 120 mm. (4.75") diameter Fresnel lens - POWERCON IN & OUT PANEL MOUNTED CONNECTORS.
The Model Number for the DIN Spigot Version is "F4.7T".PO.DIN	 XLR 5 Pin DMX IN & OUT PANEL MOUNTED CONNECTORS. 60W high power CRI>90 LED with Tungsten Balanced Correlated Color Temperature (CCT) Built In Universal Power Supply 120-230-240V 50/60Hz DMX controlled. Mod. 5403.135 3 mt. detachable Blue POWERCON power cable with bare ends Mod. 301.110.40 P.O. yoke with 28,57 mm. spigot (B.S. 1 1/8"), with top end for "C" clamp Mod. 306.100 four leaf rotating barndoor Mod. 307.100 colour frame DMX cable is not included, to be ordered separately
	DAYLIGHT BALANCED CCT (CRI higher than 90)
"F4.7D".MO	Super LED "F 4.7 D" - high power CRI>90 Daylight CCT, M.O. LED Fresnel Spotlight including: Mod. "F4.7D".MO.H M.O. FIXTURE HEAD with 120 mm. (4.75") diameter Fresnel lens POWERCON IN & OUT PANEL MOUNTED CONNECTORS. XLR 5 Pin DMX IN & OUT PANEL MOUNTED CONNECTORS. 60W high power CRI>90 LED with Daylight Balanced Correlated Color Temperature (CCT) Built In Universal Power Supply 120-230-240V 50/60Hz DMX controlled. Mod. 5403.135 3 mt, detachable Blue POWERCON power cable with bare ends Mod. LT300.100.40 M.O. stirrup with 16 mm. Socket Mod. 307.100 colour frame DMX cable is not included, to be ordered separately
"F4.7D".PO The Model Number for the DIN Spigot Version is "F4.7D".PO.DIN	 Super LED "F 4.7 D" - high power CRI>90 Daylight CCT, P.O. Pan & Tilt (Manual focus) LED Fresnel Spotlight including: Mod. "F4.7D".MO.H M.O. FIXTURE HEAD with 120 mm, (4.75") diameter Fresnel lens POWERCON IN & OUT PANEL MOUNTED CONNECTORS. XLR 5 Pin DMX IN & OUT PANEL MOUNTED CONNECTORS. 60W high power CRI>90 LED with Daylight Balanced Correlated Color Temperature (CCT) Built In Universal Power Supply 120-230-240V 50/60Hz DMX controlled. Mod. 5403.135 3 mt. detachable Blue POWERCON power cable with bare ends Mod. 301.110.40 P.O. yoke with 28,57 mm. spigot (B.S. 1 1/8"), with top end for "C" clamp Mod. 307.100 colour frame
5402.503	DMX cable is not included, to be ordered separately 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 F4.7 OPTIONALS & ACCESSORIES

MOD.	Super LED F4.7 High power - Enhanced CRI - OPTIONALS & ACCESSORIES
305.310	Stainless Steel wire guard
306.100	Four leaf rotating barndoor
306.200	Eight way rotating barndoor
307.100	Colour Frame
308.100	Cone with two discs (with front aperture diameter: 70 mm. 50 mm. 30 mm.)
309.100	Set of scrims - Stainless steel
309.101	Full single scrim - Stainless steel
309.102	Full double scrim - Stainless steel
309.103	1/2 single scrim - Stainless steel
309.104	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)
93.101	Extruded black "C" clamp with 16mm. (5/8") stud
93.104	Extruded black "C" clamp with M 8 threaded stud
20.100	Safety cable 800 mm. long with 4 mm. diameter steel rope and safety catch.
302.631	KIT CASE in REINFORCED MOLDED POLYETILEN for 3 LIGHTS AND ACCESSORIES, including: - Black Colour - 3 Sides Carrying Handles - Alluminium profiles, Heavy duty cam-lock, hinges and rolling wheels - for: Magis kit 300.600 DLK 380 - DLK 3100.



INCREASED OUTPUT Super LED F4.7 versus LED MAGIS 4.7:

The SUPER LED F4.7 is featuring an important increase of Light output if compared to the standard LED MAGIS.

The table shows the Main Lighting Parameters comparison between the Super LED F4.7 and the LED MAGIS.

	Standard Version	Super LED
	LED MAGIS Tungsten CCT 55W	Super LED F 4.7 T Tungsten CCT 60W
Measuring distance	3 mt	3 mt
		Central Light Intensity Increase
FULL FLOOD		26,61%
Illumination center values at Distances	699 lux	885 lux
Central Light intensity (Candle Power)	6.291 cd	7.965 cd
FULL SPOT		1 9,33 %
Illumination center values at Distances	3.000 lux	3.580 lux
Central Light intensity (Candle Power)	27.000 cd	32.220 cd

Standard Version	Super LED
LED MAGIS Daylight CCT 55W	Super LED F 4.7 D Daylight CCT 60W
3 mt	3 mt
	Central Light Intensity Increase
	17,72%
756 lux	890 lux
6.804 cd	8.010 cd
	12,77%
3.281 lux	3.700 lux
29.529 cd	33.300 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 F4.7 when compared respectively to a 750 W Tungsten Fresnel and outperforms a 250W HMI, which are the equivalent lighting performance conventional fixtures, when analysing the output beam from middle to full flood:

DE SISTI - SUPER LED F4.7 Energy & Thermal Savings versus equivalent Conventional Fixtures

ne 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)	Energy &	SUPER LEI 60W Tungsten b Thermal Savings versu	alanced CCT	nent Fixture
an ene contained mine commande inclusing (no separate balasis of power supply) Yower and DMX Daysy chain able High energy savings when compared to Tungsten Fixtures with negligible POWER REQUIREMENTS Id very low Thermal Emission for contained cooling systems in the studio. Extremely contained Maintenance (mostly cleaning): no lamps replacement		formances of the 60W T m medium to full flood t		
ENERGY CONVERSION	Tungsten Fresnel	750 W	LED Fresnel	60 W
Visible Light	8%	60 W	25%	15 W
IR	73%	548 W	0%	0 W
UV	0%	0 W	0%	0 W
Total Radiant Energy	81%	608 W	0%	0 W
Heat (Conduction + Convection)	19%	143 W	75%	45 W
Total Power Consumption of Lighting Fixture	100%	750 W 690 W	100% 75%	60 W
Total % of Input Energy converted in Thermal Dissipation	92%	09U W	/3%	45 W
ENERGY SAVINGS on LIGHTING FIXTURE consumptiom with DE SISTI LED THERMAL EMISSION SAVINGS with DE SISTI LED	92% 93%	Using the DE SISTI LED i	nstead of Tungsten Fix	tures
BTU to refrigerate the Dissipation of the Lighting Fixture		2.355 BTU		154 BTU
HVAC Power Consumption to produce the above BTU		220 W		14 W
Tot. CONSUMPTION in kWhrs in 2600 hrs (typical yearly use)		2.521 kWh		193 kWh
TOTAL yearly cost for Electricity per Fixture with 1 kWh = 0,2 \in		€ 504,29		€ 38,65
TOTAL ENERGY SAVINGS with DS LEDS	Por Eistur		Por Eisturo	
TOTAL ENERGY SAVINGS with DS LEDS = on LIGHTING FIXTURE + HVAC consumption	Per Fixtur Saving	s € 403,0	Per Fixture Savings in %	0.7%
= on LIGHTING FIXTURE + HVAC consumption 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)	Saving	SUPER LEE 60W Daylight b nal Savings versus eq Fixtu	Savings in % D F4.7D alanced CCT uivalent Daylight [re	92% Discharge Lamp
= on LIGHTING FIXTURE + HVAC consumption 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	Saving Energy & Therr The lighting Perl	s € 400,0 SUPER LEE 60W Daylight b nal Savings versus eq	Savings in % D F4.7D alanced CCT uivalent Daylight [re Daylight Balanced C	92% Discharge Lamp
= on LIGHTING FIXTURE + HVAC consumption the DE SISTI LED FRESNELS Daylight are: much less expensive then equivalent HMIs fatures 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) "ower and DMX Daysy chain able (ret introduce significant energy savings when compared to HMIs	Saving Energy & Therr The lighting Perl	SUPER LEE 60W Daylight b nal Savings versus eq Fixtu formances of the 60W	Savings in % D F4.7D alanced CCT uivalent Daylight [re Daylight Balanced C	92% Discharge Lamp
= on LIGHTING FIXTURE + HVAC consumption to DE SISTI LED FRESNELS Daylight are: much less expensive then equivalent HMIs fatures 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) "ower and DMX Daysy chain able (et introduce significant energy savings when compared to HMIs Extremely contained Maintenance (mostly cleaning): no expensive lamps replacement	Saving Energy & Therr The lighting Pert comparable from	SUPER LEE 60W Daylight b nal Savings versus eq Fixtu formances of the 60W m medium to full flood t	Savings in % D F4.7D alanced CCT uivalent Daylight [re Daylight Balanced C o those of a 250W LED	92% Discharge Lamp CCT are HMI Fresnel.
= on LIGHTING FIXTURE + HVAC consumption 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) "ower and DMX Daysy chain able fet introduce significant energy savings when compared to HMIs Extremely contained Maintenance (mostly cleaning): no expensive lamps replacement ENERGY CONVERSION	Saving Energy & Therr The lighting Pert comparable from HMI Fresnel	SUPER LEC 60W Daylight b nal Savings versus eq Fixtu formances of the 60W m medium to full flood th 250 W	Savings in % O F4.7D alanced CCT uivalent Daylight [re Daylight Balanced C o those of a 250W LED Fresnel	92% Discharge Lamp CCT are HMI Fresnel. 60 W
= on LIGHTING FIXTURE + HVAC consumption 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) "ower and DMX Daysy chain able (ret introduce significant energy savings when compared to HMIs Extremely contained Maintenance (mostly cleaning): no expensive lamps replacement ENERGY CONVERSION Visible Light	Saving Energy & Therr The lighting Pert comparable from HMI Fresnel 27%	SUPER LEC 60W Daylight b mal Savings versus eq Fixtu formances of the 60W m medium to full flood to 250 W 68 W	Savings in % D F4.7D alanced CCT uivalent Daylight I Daylight Balanced C o those of a 250W LED Fresnel 25%	92% Discharge Lamp CCT are HMI Fresnel. 60 W 15 W
= on LIGHTING FIXTURE + HVAC consumption 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) Tower and DMX Daysy chain able Tertion of the dimiter ance (mostly cleaning): no expensive lamps replacement Extremely contained Maintenance (mostly cleaning): no expensive lamps replacement IR U Sistible Light IR U	Saving Energy & Therr The lighting Pert comparable from HMI Fresnel 27% 17% 19% 63%	SUPER LEE 60W Daylight b mal Savings versus eq Fixtu formances of the 60W m medium to full flood to 250 W 68 W 43 W 43 W 158 W	Savings in % D F4.7D alanced CCT uivalent Daylight I re Daylight Balanced C o those of a 250W LED Fresnel 25% 0% 0% 0%	92% Discharge Lamp CCT are HMI Fresnel. 60 W 15 W 0 W 0 W
= on LIGHTING FIXTURE + HVAC consumption 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) Yower and DMX Daysy chain able Tet 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)	Saving Energy & Therr The lighting Perf comparable from HMI Fresnel 27% 17% 19% 63% 37%	SUPER LEC 60W Daylight b mal Savings versus eq Fixtu formances of the 60W m medium to full flood th 250 W 68 W 43 W 48 W 158 W 93 W	Savings in % D F4.7D alanced CCT uivalent Daylight I Daylight Balanced C to those of a 250W LED Fresnel 25% 0% 0% 0% 75%	92% Discharge Lamp CCT are HMI Fresnel. 60 W 15 W 0 W 0 W 0 W 0 W
= on LIGHTING FIXTURE + HVAC consumption 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) Tower and DMX Daysy chain able Tertion of the dimiter ance (mostly cleaning): no expensive lamps replacement Extremely contained Maintenance (mostly cleaning): no expensive lamps replacement IR U Sistible Light IR U	Saving Energy & Therr The lighting Pert comparable from HMI Fresnel 27% 17% 19% 63%	SUPER LEE 60W Daylight b mal Savings versus eq Fixtu formances of the 60W m medium to full flood to 250 W 68 W 43 W 43 W 158 W	Savings in % D F4.7D alanced CCT uivalent Daylight I re Daylight Balanced C o those of a 250W LED Fresnel 25% 0% 0% 0%	92% Discharge Lamp CCT are HMI Fresnel. 60 W 15 W 0 W 0 W
= on LIGHTING FIXTURE + HVAC consumption the DE SISTI LED FRESNELS Daylight are: much less expensive then equivalent HMIs fatures 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) 'ower and DMX Daysy chain able fer 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)	Energy & Therr The lighting Perf comparable from HMI Fresnel 27% 17% 19% 63% 37% 100%	SUPER LEE 60W Daylight b mal Savings versus eq Fixtu formances of the 60W m medium to full flood to 250 W 68 W 43 W 48 W 158 W 93 W 250 W	Savings in % D F4.7D alanced CCT uivalent Daylight Edianced C o those of a 250W LED Fresnel 25% 0% 0% 0% 75% 100% 75%	92% Discharge Lamp CCT are HMI Fresnel. 60 W 0 W 0 W 0 W 0 W 0 W 0 W 0 W 0 W 0 W
= on LIGHTING FIXTURE + HVAC consumption 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) ower and DMX Daysy chain able fet 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 ENERGY SAVINGS on LIGHTING FIXTURE consumption with DE SISTI LED	Saving Energy & Therr The lighting Pert comparable from HMI Fresnel 27% 17% 19% 63% 37% 100% 73% 76%	SUPER LEE 60W Daylight b mal Savings versus eq Fixtu formances of the 60W m medium to full flood th 250 W 68 W 43 W 48 W 158 W 93 W 250 W 183 W	Savings in % D F4.7D alanced CCT uivalent Daylight Edianced C o those of a 250W LED Fresnel 25% 0% 0% 0% 75% 100% 75%	92% Discharge Lamp CCT are HMI Fresnel. 60 W 0 W 0 W 0 W 0 W 0 W 0 W 0 W 0 W 0 W
= on LIGHTING FIXTURE + HVAC consumption PeDE SISTI LED FRESNELS Daylight are: much less expensive then equivalent HMIs fatures 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) ower and DMX Daysy chain able (************************************	Saving Energy & Therr The lighting Pert comparable from HMI Fresnel 27% 17% 19% 63% 37% 100% 73% 76%	SUPER LEC 60W Daylight b nal Savings versus eq Fixtu formances of the 60W m medium to full flood th 250 W 68 W 43 W 43 W 43 W 43 W 158 W 250 W 158 W 250 W 183 W	Savings in % D F4.7D alanced CCT uivalent Daylight Edianced C o those of a 250W LED Fresnel 25% 0% 0% 0% 75% 100% 75%	92% Discharge Lamp CCT are HMI Fresnel. 60 W 0 W 0 W 0 W 0 W 0 W 0 W 0 W 0 W 0 W
= on LIGHTING FIXTURE + HVAC consumption = on LIGHTING FIXTURE + HVAC consumption = on LIGHTING FIXTURE + HVAC consumption = on LIGHTING FIXTURE + HVAC consumption = on LIGHTING FIXTURE + HVAC consumption = on LIGHTING FIXTURE + HVAC consumption of Lighting Fixture = total % of Input Energy converted in Thermal Dissipation = DISTU to refrigerate the Dissipation of the Lighting Fixture = HVAC Power Consumption to produce the above BTU	Saving Energy & Therr The lighting Pert comparable from HMI Fresnel 27% 17% 19% 63% 37% 100% 73% 76%	SUPER LEC 60W Daylight b nal Savings versus eq Fixtu formances of the 60W m medium to full flood to 250 W 68 W 43 W 43 W 48 W 158 W 250 W 183 W Using the DE SISTI LED i 623 BTU 58 W	Savings in % D F4.7D alanced CCT uivalent Daylight Edianced C o those of a 250W LED Fresnel 25% 0% 0% 0% 75% 100% 75%	92% Discharge Lamp CCT are HMI Fresnel. 60 W 0 W 0 W 0 W 0 W 0 W 0 W 0 W 0 W 0 W
= on LIGHTING FIXTURE + HVAC consumption = on LIGHTING FIXTURE + HVAC consumption 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) Yower and DMX Daysy chain able (et 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 Radiant Energy Total Radiant Energy Total % of Input Energy converted in Thermal Dissipation ENERGY SAVINGS on LIGHTING FIXTURE consumption of Lighting Fixture THERMAL EMISSION SAVINGS with DE SISTI LED BTU to refrigerate the Dissipation of the Lighting Fixture HVAC Power Consumption to produce the above BTU Tota. CONSUMPTION in kWhrs in 2600 hrs (typical yearly use)	Saving Energy & Therr The lighting Pert comparable from HMI Fresnel 27% 17% 19% 63% 37% 100% 73% 76%	SUPER LEC 60W Daylight b nal Savings versus eq Fixtu formances of the 60W m medium to full flood to 250 W 68 W 43 W 43 W 43 W 43 W 158 W 250 W 183 W Using the DE SISTI LED i 623 BTU 58 W	Savings in % D F4.7D alanced CCT uivalent Daylight Edianced C o those of a 250W LED Fresnel 25% 0% 0% 0% 75% 100% 75%	92% Discharge Lamp CCT are HMI Fresnel. 60 W 0 W 0 W 0 W 0 W 0 W 0 W 0 W 0 W 0 W
= on LIGHTING FIXTURE + HVAC consumption = on LIGHTING FIXTURE + HVAC consumption = on LIGHTING FIXTURE + HVAC consumption = on LIGHTING FIXTURE + HVAC consumption = on LIGHTING FIXTURE + HVAC consumption = on LIGHTING FIXTURE + HVAC consumption of Lighting Fixture = total % of Input Energy converted in Thermal Dissipation = DISTU to refrigerate the Dissipation of the Lighting Fixture = HVAC Power Consumption to produce the above BTU	Saving Energy & Therr The lighting Pert comparable from HMI Fresnel 27% 17% 19% 63% 37% 100% 73% 76%	SUPER LEC 60W Daylight b nal Savings versus eq Fixtu formances of the 60W m medium to full flood to 250 W 68 W 43 W 43 W 48 W 158 W 250 W 183 W Using the DE SISTI LED i 623 BTU 58 W	Savings in % D F4.7D alanced CCT uivalent Daylight Edianced C o those of a 250W LED Fresnel 25% 0% 0% 0% 75% 100% 75%	92% Discharge Lamp CCT are HMI Fresnel. 60 W 0 W 0 W 0 W 0 W 0 W 0 W 0 W 0 W 0 W
= on LIGHTING FIXTURE + HVAC consumption = on LIGHTING FIXTURE + HVAC consumption 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) Yower and DMX Daysy chain able (et 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 Radiant Energy Total Radiant Energy Total % of Input Energy converted in Thermal Dissipation ENERGY SAVINGS on LIGHTING FIXTURE consumption of Lighting Fixture THERMAL EMISSION SAVINGS with DE SISTI LED BTU to refrigerate the Dissipation of the Lighting Fixture HVAC Power Consumption to produce the above BTU Tota. CONSUMPTION in kWhrs in 2600 hrs (typical yearly use)	Saving Energy & Therr The lighting Pert comparable from HMI Fresnel 27% 17% 19% 63% 37% 100% 73% 76%	SUPER LEE 60W Daylight b mal Savings versus eq Fixture formances of the 60W m medium to full flood to 250 W 68 W 43 W 43 W 43 W 43 W 158 W 250 W 250 W 80 X 43 W 43 W 158 W 250 W 250 W 80 X 43 W 158 W 250 W 250 W 158 W 250 W 250 W 158 W 250 W 2	Savings in % D F4.7D alanced CCT uivalent Daylight Edianced C o those of a 250W LED Fresnel 25% 0% 0% 0% 75% 100% 75%	92% Discharge Lamp CCT are HMI Fresnel. 60 W 15 W 0 W 0 W 0 W 0 W 0 W 0 W 45 W 60 W 45 W 154 BTU 14 W 193 kWh € 38,65 76%



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 50°), 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.

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