



*** dedolight**

PRECISION LIGHTING INSTRUMENTS



10/2009

DLAD Lights – DedoLight Architectural and Display
Precision Lighting for Museum, Gallery and Display

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DEDOLIGHT DLAD LIGHTS

DedoLight Architectural and Display

Precision Lighting for Museum,
Gallery and Display



Silver

Standard colors shown here



Black



White

<u>DLAD Architectural and Display Lights</u>	4
Dedolight's Decisive Advantage	5
Precision Control, Precision Lighting	6
Definable Accents	7
The World's First Focusing Asymmetric Light	8
Light Distribution	9
Ultraviolet Light	10
Optional UV-Cut Filter	11
Precision Light and Shadow Projections	12
Image Projection	13
<u>Focusing Lights</u>	14
<u>Projection Universal</u>	16
<u>Projection Halogen High Output</u>	18
Interchangeable Lenses	20
<u>Accessories</u>	22
<u>New DLAD System Overview</u>	24
Dedolight Codes	25
<u>Dedolights in Action</u>	26
<u>Light Meters and Spectral Analysis</u>	28
<u>Photometrics</u>	29
Dedo Weigert Film and Dedotec Contacts	Back Cover

Cover photo: Dedolights installed in the Museum of Islamic Ceramics, Cairo

DEDOLIGHT ARCHITECTURAL and DISPLAY LIGHTS

Our **DLAD** range encompasses a unique range of selective precision lighting instruments that are particularly well suited to use in museums (where their UV protection means visitors can at last see precious exhibits that would be harmed by other lights), while their flexibility is such that they are also ideal for art galleries, product displays or wherever precision lighting is needed.

In creating these lights, our design team had to achieve numerous breakthroughs, including:

- The first focusing museum lights
- The first asymmetric focusing museum lights
- The most efficient ever focusing or tunable lights
- The most even light distribution
- The lowest ever ultraviolet output – offering enough light to view by, but barely measurable amounts of UV that could do damage.

IN FOCUS

Why are focusing lights useful or even necessary?

- Being able to change the exit angle of the light beam (flood/spot) allows you to take into account different subject sizes and different distances between the light source and the subject.
- Efficiency – concentrating the light solely onto the subject to be lit minimizes energy cost.
- Lighting from a larger distance contributes to the evenness of lighting on the subject.
- You can fine tune the intensity of the light.
- Limiting the light angle by the barn doors (so that you are only lighting the subject) can allow you to adjust the intensity (Lux values measured at the subject) gradually.

Traditional focusing lights exist in two variations:

- a) The light source is movable within the reflector.

Disadvantages: Uneven light distribution

You won't be able to get clean control over shadow edges by using barn doors – as far as such lights are even fitted with barn doors.

- b) The light source and reflector move in relation to a front lens (often a Fresnel lens) as used in studio lighting. This offers improved control of shadow edges and provides a cleaner light character.

Disadvantages: Perfect control of shadow is not possible.

Limited focusing range (little alteration of intensity possible); therefore limited use.

Insufficient reach – a very narrow exit angle is not possible.

Insufficient light efficiency – especially in the spot position (6% maximum efficiency).

Uneven light distribution.

Dedolight's Decisive Advantage

The revolutionary optical system of our lights is based on a patented dual-lens system. The film version has already received two awards from the Oscar Committee of the Academy of Motion Picture Arts and Sciences.

It uses two specially designed aspheric lenses. The front lens is in a fixed position, while the second lens moves with the light source and the reflector. At the same time, it moves in relation to the reflector and the light source (zoom focus patent).



The OSCAR committee awarded dedolight a Technical Achievement Award in 1990 and a Scientific and Engineering Award 2003. The optical and mechanic principle was also awarded, with an Emmy, in 2003.

Advantages

- A focusing range of 1:18. Such a range is not possible in traditional constructions (1:3). This results in an incomparable variety of possibilities—from the lighting of large objects from short distances (large angle of exit), up to the lighting of small objects from a larger distance.
- Drastically improved light efficiency and output. In the spot position (narrow exit angle), this can surpass traditional systems by a factor of 5.
- More usable light in relation to lower energy consumption and lower heat emission, which in turn leads to noticeable secondary savings in air conditioning costs. A 100W halogen lamp produces 90W heat and only 10% visible light, and still requires up to 400W for air conditioning.
- Inside the light beam or over the entire lit area, we achieve a photometrically-perfect even distribution of the light intensity. This is a property that cannot be achieved by traditional lighting instruments.
- The defined beam (clean beam) without stray light makes the Dedolight system an incomparable precision instrument for precision lighting.



The State Tretyakov Gallery,
Moscow

PRECISION CONTROL

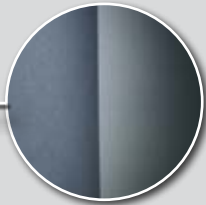
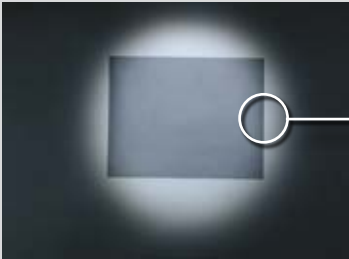
Uncontrolled light sources will also illuminate surfaces, backgrounds and walls that are not part of the actual object to be lit.

When this then accentuates bright surfaces (such as a white wall), the human eye has a tendency to concentrate on the brighter parts of the image and get distracted from the real subject. If a viewer's attention is not well directed, the subject becomes less memorable.

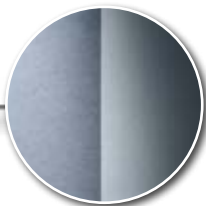
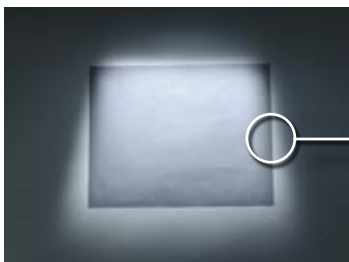
DEDOLIGHT OFFERS PRECISION LIGHTING:

- By its very precise light beam without stray light.
- With the help of 8-leaf barn doors, which, in conjunction with our optical system, offer much more defined shadow edges than are possible with other light sources.
- With the help of our special 12-leaf museum barn doors (patent), it is possible to precisely light square or rectangular objects, even when the light is pointed towards the object from an angle. In practically every conceivable lighting situation, the light will come from such an angle (most of the time from above) and, in addition, from an angle away from the main surface of the object – the sideways angulation of the optical axis of the light beam is often desired in order to eliminate unwanted reflections. Even when the angle is from above, straight on towards the object, the most that normal barn doors are able to do is to provide a trapezoidal shadow form, which will rarely suit the shape of a painting.
- You can get even more precise and defined light and shadow edges with our precision light projectors/imagers.

DEFINABLE ACCENTS



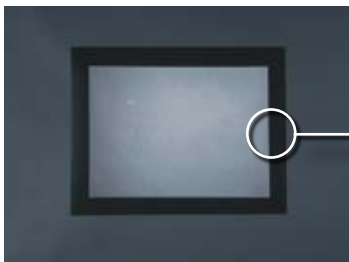
Just light
(no accessory)
Defined, but not controlled.



DBD8
Standard barndoor.
Limited control when lighting from acute angle. Vertical shadow runs trapezoidal, cannot be limited to the edge of the painting.



DBD2
Patented articulated 12-leaf barndoor system.
Infinitely variable control provides accurate form regardless of position of the light to the object.



DP2
Projection attachment/imager.
This attachment provides another level of control allowing variable framing from razor sharp edges to soft and gradual edges.



DP2 + DPEYE
Same as DP2. Additional DPEYE FILTERS subtly soften the edges, i.e. for dark paintings with broad gold frames.



THE WORLD'S FIRST ASYMMETRIC FOCUSING LIGHT

Our asymmetric optical system (diagram 1) offers a photometrically precise redistribution of the light intensity so that you can achieve perfectly even lighting without any light loss from an angle of 45°, for example. In addition, the axis of asymmetric function in our lighting system is rotatable. This means that lighting can not only be made from a 45° angle directly towards the object (such as a painting) from above, but also all other combinations of angles.

A BALANCED VIEW ON ASYMMETRIC LIGHTS

It has never before been possible to build asymmetric focusing lights (which is why it is subject to another of our patents).

For example, look at wall wash lights (in theatre, film and TV they are called cyc lights). These are built using an asymmetric reflector. In this case, the asymmetry is limited to one axis and it is definitely not a focusing light.

But, when you think of it, there is almost never any lighting that doesn't come from some angle. This automatically creates a situation where one part of the subject is further away from the light source and receives drastically less light than the part that is closer to the light source (in physics, this is called the inverse square law. Double the distance = 25% of the light [diagrams 2 and 3]). Even with a focusing light, we are hopeless slaves of the inverse square law – until now. Of course, it is possible to partially lower the light intensity for portions of the subject that appear to be too bright. With studio lights, usually focusing lights, partial wire scrims, so-called half scrims or graduated scrims, can be used. But, the transition between where the lower light intensity area and where the light hits the object unhindered is never gentle. It is never clean.

For this reason, we developed new filters (diagram 4) on a borosilicate substrate with a gradual neutral gray transition deposited in a special thin-film technology. This provides neutral graduated shadows with a smooth transition and no change in colour characteristics. This is another one of our toys that you will not find anywhere else.

Such aids (scrims and graduated gray filters) function on the principle that light is partially blocked or diminished. Our asymmetrical system redistributes without loss.

ASYMMETRIC LIGHTS

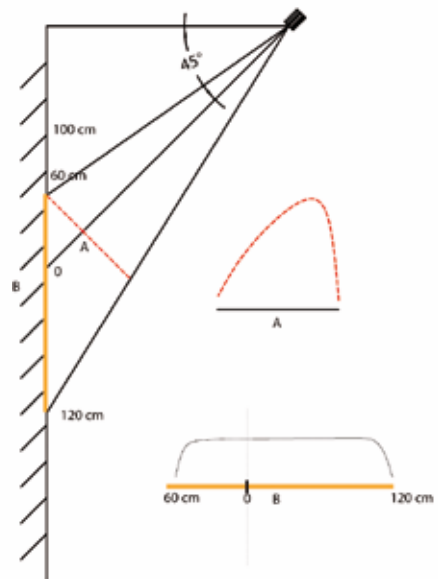


Diagram 1



Diagram 2

SYMMETRIC LIGHTS

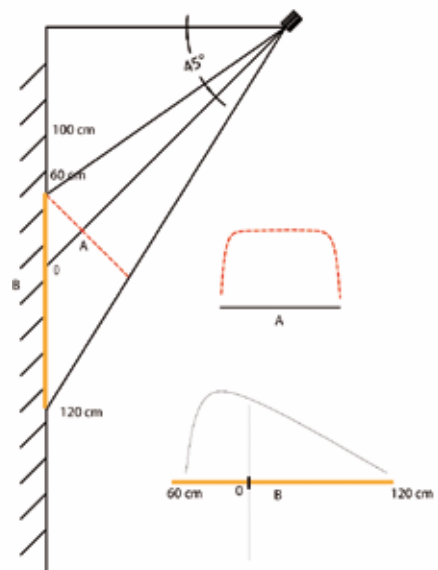


Diagram 3

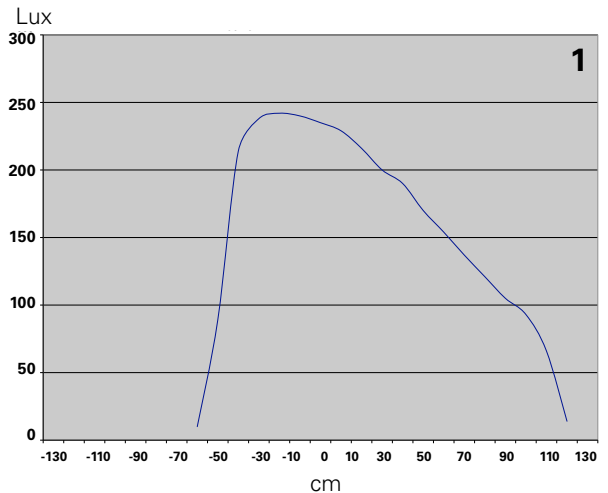


Diagram 4

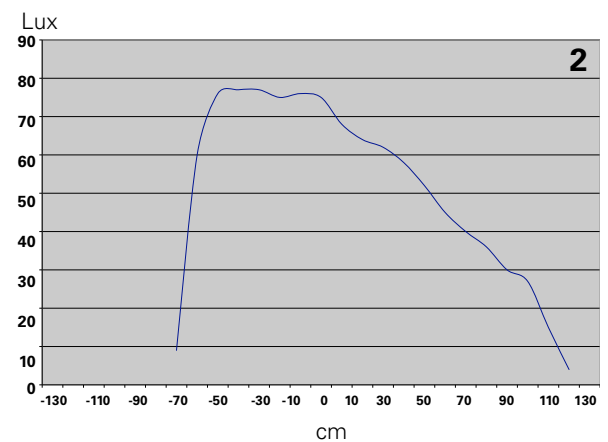
LIGHT DISTRIBUTION

We are especially proud about our **WORLD'S FIRST ASYMMETRIC FOCUSING LIGHTS**, which allow, for example, the lighting of a painting or an art object from an angle with a light distribution which can provide perfectly even light for both the top and bottom parts of the painting – usually not achievable with any other light source.

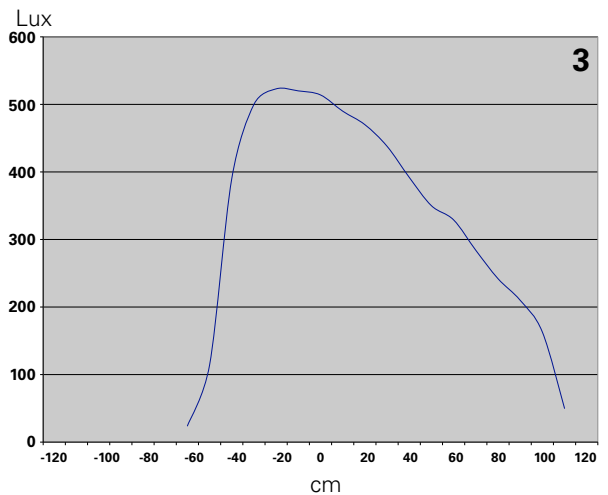
1 Light distribution, flood position of the focusing asymmetric light with 70W ceramic lamp measured at a distance of 2m, with optical wide-angle attachment and barn door.



2 Light distribution, flood position of the focusing asymmetric light with 100W halogen lamp measured at a distance of 2m, with optical wide-angle attachment and barn door.

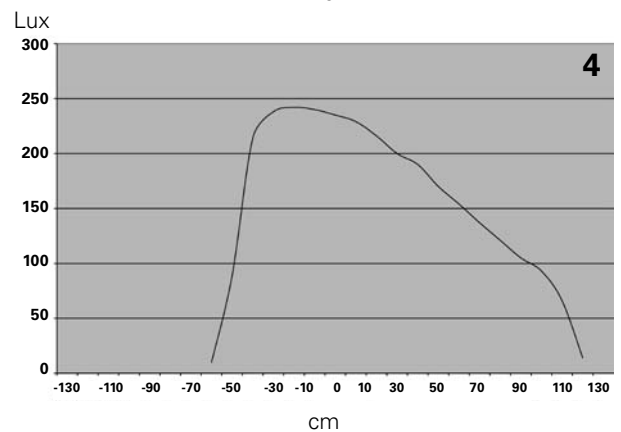


3 Light distribution, flood position of the focusing asymmetric light with 150W ceramic lamp measured at a distance of 2m, with optical wide-angle attachment and barn door.



We are very proud that with our patented Double Aspheric optical system our focusing lights are able to provide a perfectly even light distribution over the entire lit field without any changes in light intensity, without any discoloration.

4 Light distribution, flood position of the focusing symmetric light with 70W ceramic lamp measured at a distance of 2m, with wide-angle and barn door.



ULTRAVIOLET – INVISIBLE BUT DEADLY

Some materials are badly affected by light, or rather the invisible, ultraviolet component of light.

A little ultraviolet can do more damage to watercolours, gouaches, photographs, textiles and organic matter than a lot of visible light.

Sunlight contains many dangerous rays. The most deadly – the cosmic rays – are deflected by the Van Allen Belt.

The dangerous part of UV (UV-C 200-300nm) is mostly filtered out by the ozone layer.

However, many discharge lamps have a much higher UV content than the sunlight that reaches us and there is no friendly ozone layer between the discharge light sources and a sensitive piece of art (or human skin).

Even the light from halogen lamps contains considerable UV (135µW/l).

So-called “UV-stop lamps” – don’t. They just lower the UV content.

Some museum advisors and curators have concluded that lowering the (visible) light level to 70 lux will provide sufficient protection. That is a particularly low light level and the human eye takes some time to adjust when coming from normal light levels.

Of course, reducing the light intensity also decreases the UV content. No light – no UV. But this practice does not seem to consider that even a low UV content is far more dangerous to sensitive materials than a much higher level of visible light.

There are two measurements:

- a) UV content of light, generally measured in µWatt/lumen.
- b) The amount of UV radiation at the object measured in mW/m².

For endangered art, the second measurement is relevant, as well as the duration of the exposure to ultraviolet, and has to take into account the intensity of the light (wattage/efficiency/focus) and the UV content of this light source.

There are so-called UV filters in use. They don’t normally cut the UV, but they do lower the UV intensity. They usually also affect the visible light by introducing a yellowish/brownish tint. Most of these filters work on an absorbing principle.

We have developed a special reflective filter (using thin film technology) that cuts UV content very efficiently, below 405nm. This means that there is no change in the visible spectrum, so that you can decide what light level an exhibit really needs for visitors to see it at its best, without worrying about UV damage.

Unprecedented UV Reduction

Many curators believe that the generally accepted standard UV levels of 75 µW/lumen for ‘sensitive’ material (such as oil paintings) and 30 µW/lumen for ‘very sensitive’ material (such as textiles or watercolors) are far too high. David Saunders, of the Department of Conservation and Scientific Research at the British Museum, believes that museums should be aiming for a level of less than 10 µW/lumen.

Our technology lowers the UV content to 1 or, at maximum, 2 µW/lumen and, as far as we know, provides the most effective UV protection available.

The Russian Cultural Ministry runs a laboratory for museum safety and has specified our lights as the most effective and safe for critical museum applications.

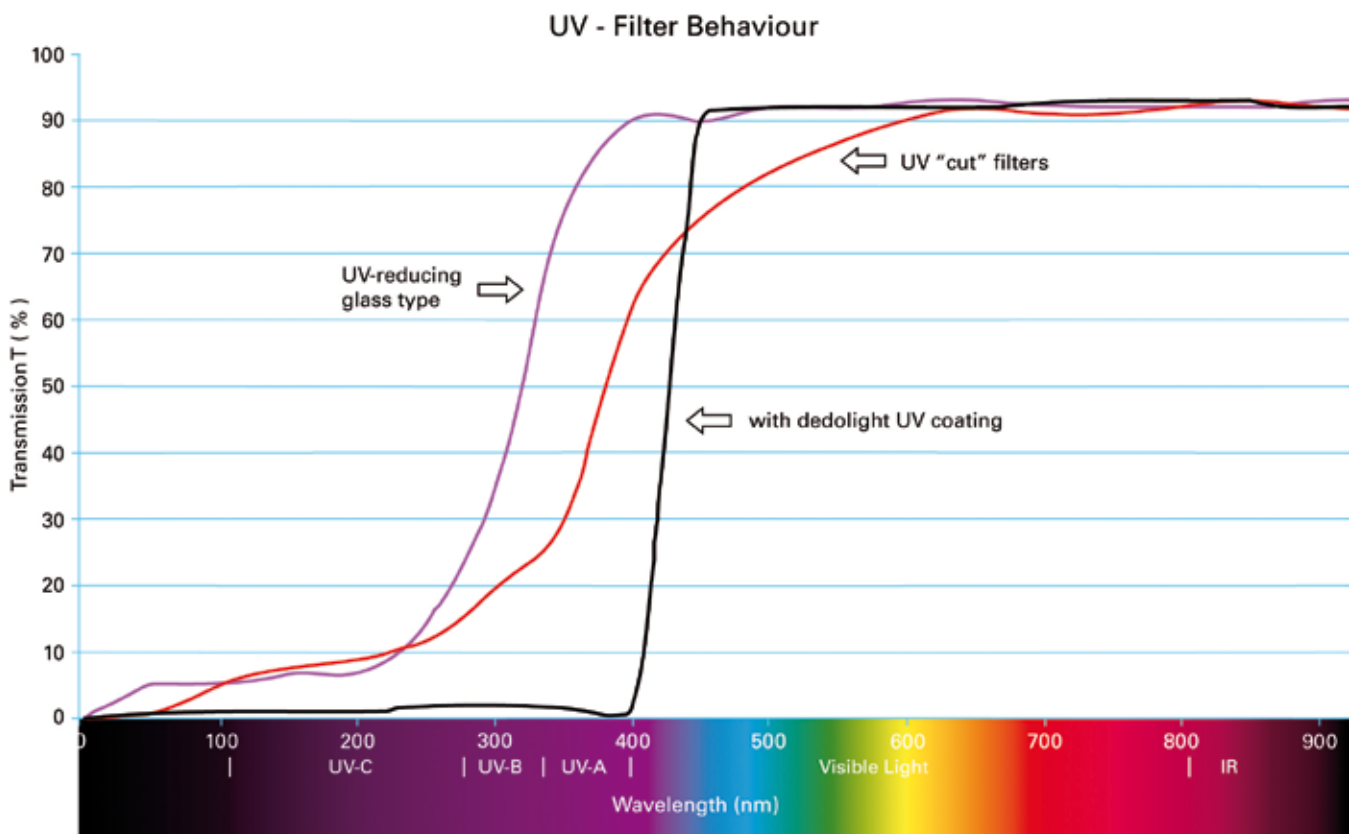
Footnote: The degrading effects of UV on various colors and materials were studied by a scientific company in St. Petersburg (also commissioned by the Russian Ministry of Culture). The ill effects over a relatively short time of irradiation were proven for many materials. There still seems to be some uncertainty about the level of such degrading effects on oil paintings. Some say that the detrimental effects show for some period of irradiation and then more or less even out or do not continue at the same rate. Others seem to believe that the longtime effects are also considerable.

Together with the St. Petersburg lab, we have developed a series of UV meters (see page 28). In this catalogue, we will show only the meter that is most commonly used and distributed by us.

Should you also be interested in any of the other versions of UV meters and humidity, temperature and airflow meters designed for museum use, please let us know.

OPTIONAL UV-CUT FILTER

We offer a reduction of ultraviolet values in a much more effective way than any other known UV-cut filter has been able to do.



We have been successful in developing a filter coating, which effectively cuts UV-A, UV-B and UV-C radiation below 405nm. This coating is offered as an option, deposited on the inside of one of our lenses and does not affect the visible light, color rendition or transmission.

The ultraviolet radiation contained in the emitted light is usually measured in $\mu\text{W} / \text{lm}$ (microwatt per lumen).

Some critical museum specialists have specified values below $60 \mu\text{W} / \text{lm}$.

So-called UV Stop lamps do not really stop the ultraviolet content they just lower it. Our filters go much further, bringing the emitted ultraviolet content close to values below $2 \mu\text{W} / \text{lm}$.

This special filter is an option to all of our DLAD lights, offered at an additional price.

PRECISION LIGHT and SHADOW PROJECTIONS

When light and shadow edges need to be provided with utmost precision, our projection lighting instruments are unbeatable.

With our framing shutters (movable shadow masks), very clean light and shadow edges are adjustable without any halation, colour fringing or distortion. This sounds simple, but we are convinced that we are the only ones who can fill these tasks with unprecedented precision.

In order to provide optimal adjustment to distance and object size with optimum light efficiency, we provide seven different projection optics, including two zoom lenses.

* See page 20 for interchangeable lenses for projection attachment/imager



Deutsches Sport &
Olympia Museum,
Cologne



IMAGE PROJECTION

Under the name "Imager", we have seven different instruments for different tasks. In general, such systems are plagued by seven sins:

- Chromatic aberration
- Halation
- Distortion
- Low resolution
- Poor contrast rendition
- Uneven light distribution

With our experience and the quality of our optical design, we were able to eliminate all of these defects and to introduce a system that offers both maximum transmission and light efficiency.

We have several different imaging systems to choose from:

- a) Steel gobos: There are more than 300 ready-made light and shadow patterns available (separate catalogue). Black and white images without gray scales.

Customized patterns can be delivered quickly.

- b) Glass gobos – black and white: Gray scales are also possible. Available with high-resolution grid patterns.

- c) Glass gobos – single colour: Often used to project logos, text or symbols.

- d) Glass gobos – multicolour: Using a photolithographic process, colour separations are transferred to four extremely thin layers of glass, etched and then combined. High resolution.

- e) Slide projection – a projection system using heat-reflecting dichroic filters and fan cooling:

Dependent on the light source used (light output/heat). The slides have a limited lifetime and may have to be exchanged occasionally. A slide's lifetime also depends on its density/transmission and the prevailing colour.

A blue motive/diapositive will bleach out more quickly than an orange coloured one.

- f) Invisible lighting – visible detail: For example, a free-standing statue can be lit with four light sources so that the optimum impression of its plasticity can be achieved. Even when visitors walk completely around the statue, they will not become aware of any light source.

By shadow masks, which take into consideration the exact placement of each light source, angle of incident and perspective – only the object itself will be lit without any visible shadows or other light effects.

This procedure demands planning and preparation. Even so, for some projects, it is a fascinating capability and we have to admit it is also fascinating for us. Therefore, we would like to work with you on such tricky and thus-far unusual lighting methods.

* See page 20 for interchangeable lenses for projection attachment/imager

FOCUSING LIGHTS

DLAD-H100

Precision focusing light for halogen lamps

Patented Double Aspheric optical system

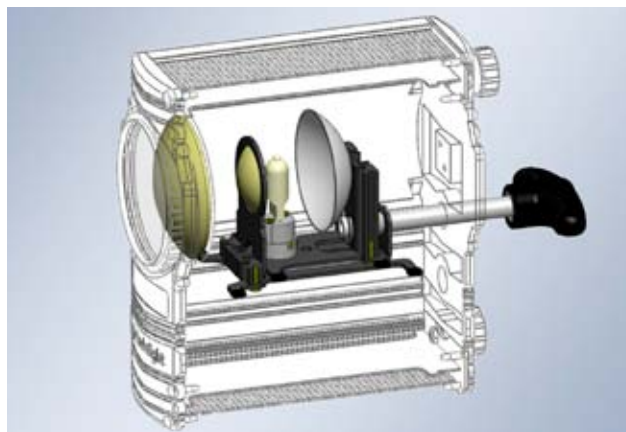
Extreme high focusing range

Precision beam, no stray light

Lamps:

Halogen, long-life (4000h), 3000 K

100W/12V	GY6.35	4000h	1800 lumen
75W/12V	GY6.35	4000h	1450 lumen
50W/12V	GY6.35	4000h	910 lumen
35W/12V	GY6.35	4000h	600 lumen
20W/12V	GY6.35	4000h	320 lumen



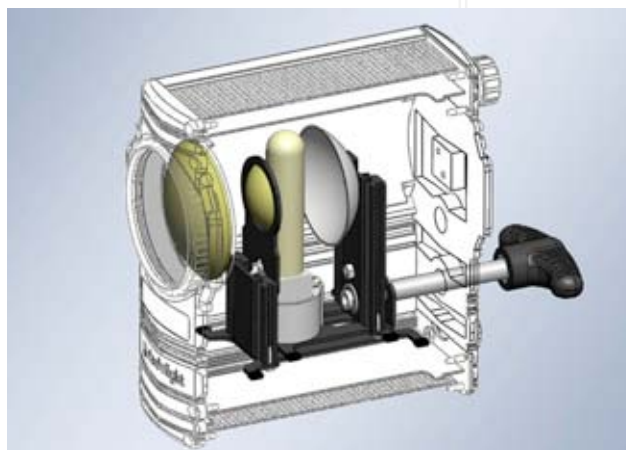
DLAD-C35

Precision focusing light for long-life ceramic lamp

35W ceramic lamp

available as WDL G12 – 3000 K, 3300 lumen

available as NDL G12 – approx. 4000 K, 3100 lumen



DLAD-C70

Precision focusing light head

Double Aspheric optics

For long-life ceramic lamps 70W

available as WDL G12 – 3000 K, 6700 lumen

available as NDL G12 – approx. 4000 K, 6500 lumen



DLAD-C150

Precision focusing light

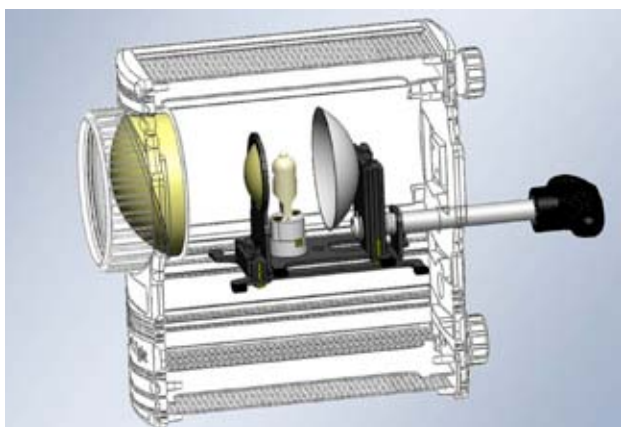
For long-life ceramic lamps 150W

available as WDL G12 – approx. 3000 K, 14500 lumen

available as NDL G12 – approx. 4000 K, 13700 lumen

BA-DAY 150W, approx. 5600 K, 13000 lumen

DLAD-C35
DLAD-C70
DLAD-C150



DLAD-HA100

Focusing light head

Patented Double Aspheric optics

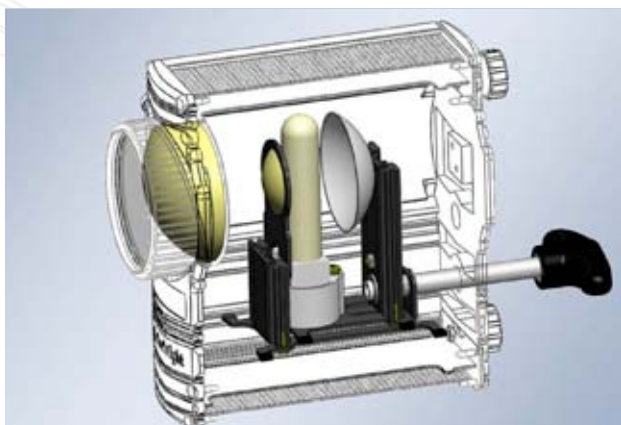
Patented optics for asymmetric light distribution functional through entire focusing range

For halogen lamps

Lamps:

Halogen, long-life (4000h), 3000 K

100W/12V	GY6.35	4000h	1800 lumen
75W/12V	GY6.35	4000h	1450 lumen
50W/12V	GY6.35	4000h	910 lumen
35W/12V	GY6.35	4000h	600 lumen
20W/12V	GY6.35	4000h	320 lumen



DLAD-CA35

Focusing light head

Patented Double Aspheric optics

Patented optics for asymmetric light distribution functional through entire focusing range

For ceramic lamps 35W

available as WDL G12 – 3000 K, 3300 lumen

available as NDL G12 – approx. 4000 K, 3100 lumen



DLAD-CA70

Focusing light head

Patented Double Aspheric optics

Patented optics for asymmetric light distribution functional through entire focusing range

For ceramic lamps 70W

available as WDL G12 – 3000 K, 6700 lumen

available as NDL G12 – approx. 4000 K, 6500 lumen

DLAD-CA35
DLAD-CA70
DLAD-CA150

DLAD-CA150

Focusing light head

Patented Double Aspheric optics

Patented optics for asymmetric light distribution functional through entire focusing range

For ceramic lamps 150W

available as WDL G12 – approx. 3000 K, 14500 lumen

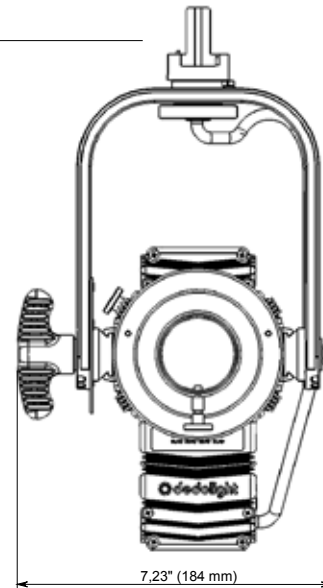
available as NDL G12 – approx. 4000 K, 13700 lumen

8,56" (217,3 mm)

PROJECTION UNIVERSAL

DEDOLIGHT ARCHITECTURAL and DISPLAY LIGHTS with combination:

- for Projection Attachment/Imager for light framing (versions F)
- for projections of shadow patterns from Gobo or Iris (version G – requires Gobo holder for Gobo)



DLAD-HFU100

Light head for combination with Projection Attachment/Imager

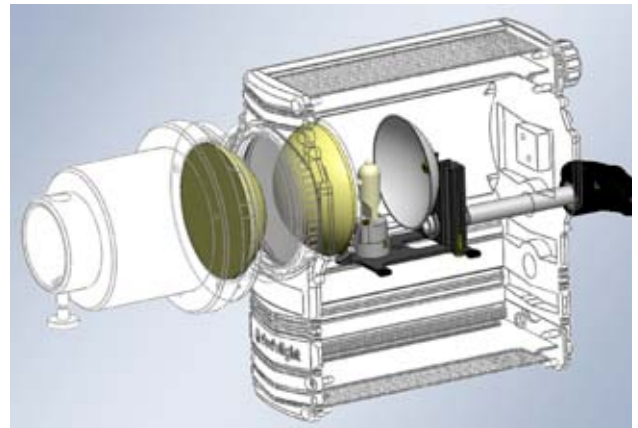
Universal version accepts all seven different lenses

Works with halogen lamps:

Halogen, long-life (4000h), 3000 K

100W/12V	GY6.35	4000h	1800 lumen
75W/12V	GY6.35	4000h	1450 lumen
50W/12V	GY6.35	4000h	910 lumen
35W/12V	GY6.35	4000h	600 lumen
20W/12V	GY6.35	4000h	320 lumen

This version, DLAD-HFU100, works with integrated framing shutters for light framings.



DLAD-HFU100
DLAD-HGU100

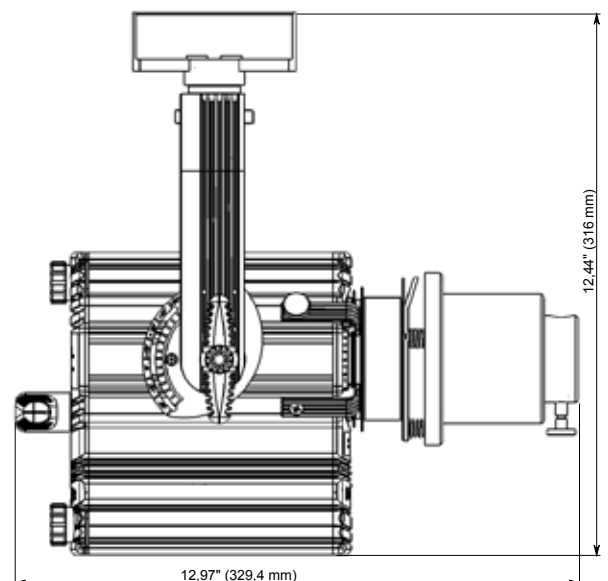
DLAD-HGU100

Same light in combination with Projection Attachment/Imager but for universal receptacle for Gobos or Iris

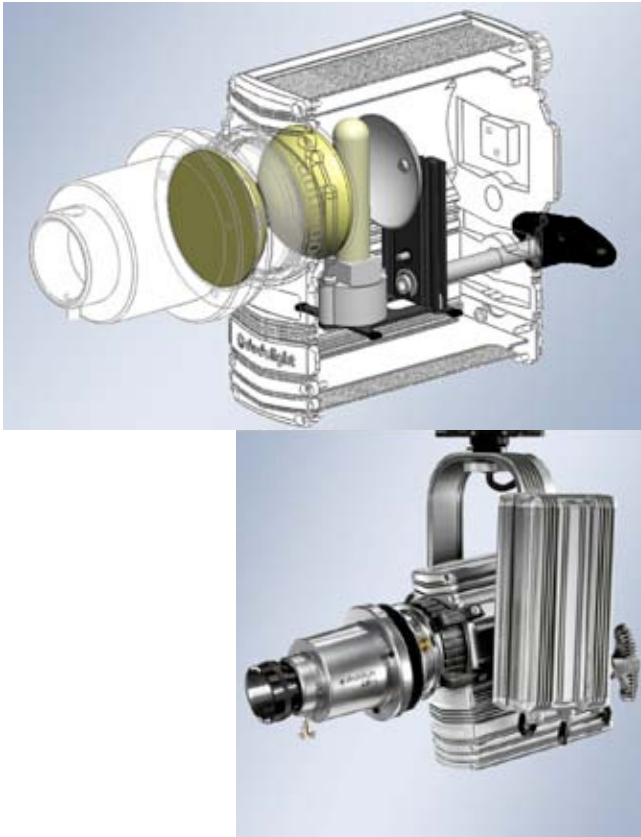
Works with halogen lamps:

Halogen, long-life (4000h), 3000 K

100W/12V	GY6.35	4000h	1800 lumen
75W/12V	GY6.35	4000h	1450 lumen
50W/12V	GY6.35	4000h	910 lumen
35W/12V	GY6.35	4000h	600 lumen
20W/12V	GY6.35	4000h	320 lumen



* See page 20 for interchangeable lenses for projection attachment/imager



DLAD-CFU35
DLAD-CFU70
DLAD-CFU150
DLAD-CGU35
DLAD-CGU70
DLAD-CGU150

DLAD-CFU35

Light head for combination with Projection Attachment/Imager for shadow projection and shaping

For ceramic lamp 35W
available as WDL G12 – 3000 K, 3300 lumen
available as NDL G12 – approx. 4000 K, 3100 lumen

DLAD-CFU70

Light head for combination with Projection Attachment/Imager

For ceramic lamps 70W
available as WDL G12 – 3000 K, 6700 lumen
available as NDL G12 – approx. 4000 K, 6500 lumen

DLAD-CFU150

Light head for combination with Projection Attachment/Imager with framing shutters for light framings

For ceramic lamps 150W
available as WDL G12 – approx. 3000 K, 14500 lumen
available as NDL G12 – approx. 4000 K, 13700 lumen
BA-DAY 150W, approx. 5600 K, 13000 lumen

DLAD-CGU35

Light head for combination with Projection Attachment/Imager with receptacle for Gobos and Iris

For ceramic lamp 35W
available as WDL G12 – 3000 K, 3300 lumen
available as NDL G12 – approx. 4000 K, 3100 lumen

DLAD-CGU150

Light head for combination with Projection Attachment/Imager with receptacle for Gobos and Iris and framing shutters for light framings

For ceramic lamps 150W
available as WDL G12 – approx. 3000 K, 14500 lumen
available as NDL G12 – approx. 4000 K, 13700 lumen
BA-DAY 150W, approx. 5600 K, 13000 lumen

DLAD-CGU70

Light head for combination with Projection Attachment/Imager with receptacle for Gobos and Iris

For ceramic lamps 70W
available as WDL G12 – 3000 K, 6700 lumen
available as NDL G12 – approx. 4000 K, 6500 lumen
BA-DAY 150W, approx. 5600 K, 13000 lumen

* See page 20 for interchangeable lenses for projection attachment/imager

PROJECTION HALOGEN HIGH OUTPUT

HALOGEN LIGHTS 12V

For combination with Projection Attachment/Imager

Highest light efficiency by use of deep reflector

Patented double sided Aspheric lens system

DLAD-HFW100

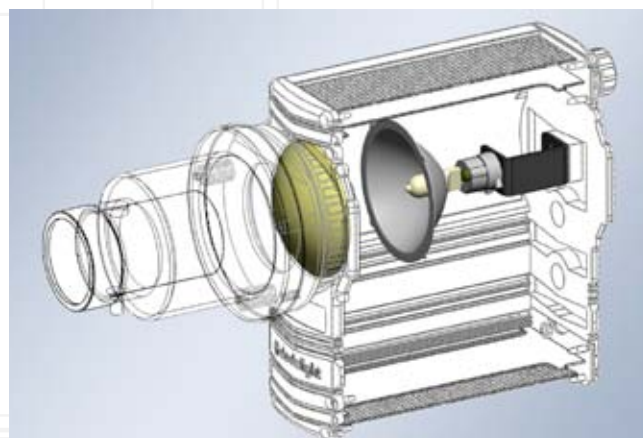
Built-in framing shutters for light framing

Works with wide-angle lenses 50mm, 60mm, 85mm as well as zoom lenses 70-120mm and 85-150mm

Works with halogen lamps:

Halogen, long-life (4000h), 3000 K

100W/12V	GY6.35	4000h	1800 lumen
75W/12V	GY6.35	4000h	1450 lumen
50W/12V	GY6.35	4000h	910 lumen
35W/12V	GY6.35	4000h	600 lumen
20W/12V	GY6.35	4000h	320 lumen



DLAD-HGW100

Built-in gobo slot for light framing

Works with wide-angle lenses 50mm, 60mm, 85mm

Will also work with zoom lenses 70-120mm and 85-150mm

With Projection Attachment/ Imager for use with Gobos or Iris

Works with halogen lamps:

Halogen, long-life (4000h), 3000 K

100W/12V	GY6.35	4000h	1800 lumen
75W/12V	GY6.35	4000h	1450 lumen
50W/12V	GY6.35	4000h	910 lumen
35W/12V	GY6.35	4000h	600 lumen
20W/12V	GY6.35	4000h	320 lumen



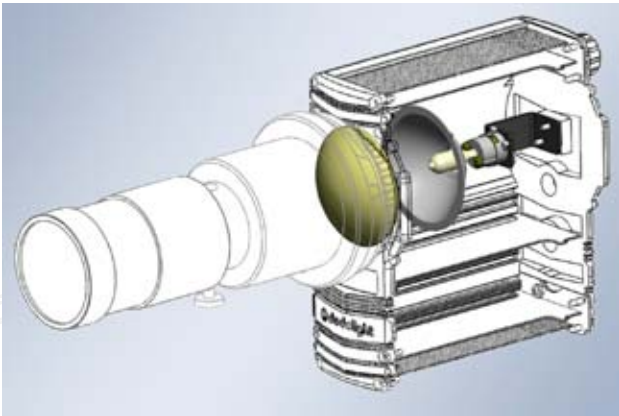
DLAD-HFW100
DLAD-HGW100

7,23" (183,6)

11,98" (304,2 mm)

DLAD deep GOBO 85 mm

* See page 20 for interchangeable lenses for projection attachment/imager



DLAD-HFN100
DLAD-HGN100

DLAD-HFN100

Built-in framing shutters for light framing

Works with long focal length lenses, like Dedolight lens 150mm and 185mm

Also works with zoom lenses 70-120mm and 85-150mm

Works with halogen lamps:

Halogen, long-life (4000h), 3000 K

100W/12V	GY6.35	4000h	1800 lumen
75W/12V	GY6.35	4000h	1450 lumen
50W/12V	GY6.35	4000h	910 lumen
35W/12V	GY6.35	4000h	600 lumen
20W/12V	GY6.35	4000h	320 lumen

DLAD-HGN100

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50W/12V	GY6.35	4000h	910 lumen
35W/12V	GY6.35	4000h	600 lumen
20W/12V	GY6.35	4000h	320 lumen

COLORS AVAILABLE FOR DEDOLIGHT DLAD LIGHTS

Standard colors:

White
Silver
Black

For custom color change a surcharge applies,
please specify RAL number..

* See page 20 for interchangeable lenses for projection attachment/imager

INTERCHANGEABLE LENSES

Interchangeable Lenses for
Projection Attachment/Imager



DPL50M

50mm lens f2.8

DPL60M

60mm lens f2.4

DPL85M

85mm lens f2.8

DPL150M

150mm lens eagle eye f2.2

D185M

185mm lens f 3.5

DLZ120M

70-120mm zoom lens f3.5

DPLZ150M

85-150mm zoom lens f3.5



The State Tretyakov Gallery, Moscow (above), DASA-Deutsche Arbeitsschutz Ausstellung, Dortmund (below)



ACCESSORIES

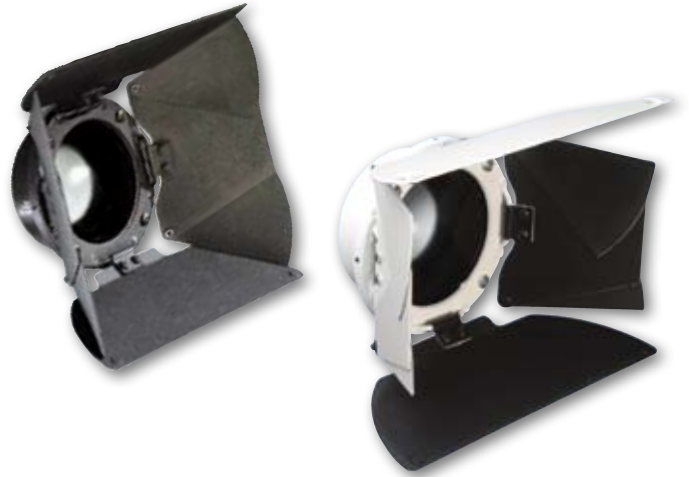
DBD-8 / DBD-8W



8-leaf barn door

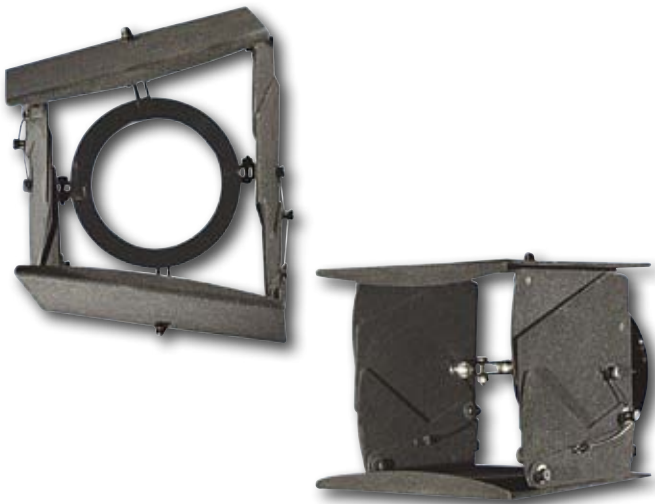
Small leaves have two helper leaves to eliminate unwanted light exit

DLWA / DLWAW



Optical wide-angle attachment with special negative lens – widens exit angle to maximum – with integrated 8-leaf barn door for precision control

DBD 2



Super museum barn door

A 12-leaf barn door designed for precision work. A unique patented system, which allows individual rotation of each main leaf to create trapezoidal shapes when lighting rectangular objects from off-axis angle. Both smaller leaves are fitted with four spring-loaded helper leaves to make sure that no unwanted light escapes.

DGRADF 0.3 DGRADF 0.6 DGRADF 0.9



Graduated neutral grey glass filters with dichroic coating
Soft edge transition from clear glass to neutral grey

Available in three densities:
ND03 – transition at densest part 50 percent
ND06 – transition at densest part 25 percent
ND09 – transition at densest part 12.5 percent

Great help in smoothing light distribution when lighting from an angle.

DFCOL-2



Dichroic color effect filter

Available in the following colors:

Red	DFCOL2R
Red Magenta	DFCOL2RM
Full Orange	DFCOL2FO
Yellow Orange	DFCOL2O
Yellow	DFCOL2Y
Light Green	DFCOL2LG
Full Green	DFCOL2FG
Turquoise	DFCOL2T
Light Blue	DFCOL2LB
Medium Blue	DFCOL2MB
Purple	DFCOL2P

DPGGH



Glass Gobo holder for size M Gobos

DPG



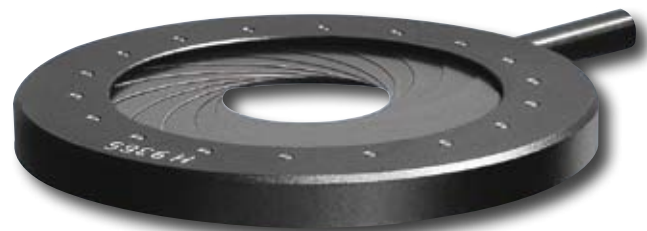
Steel Gobo size M

DPGH

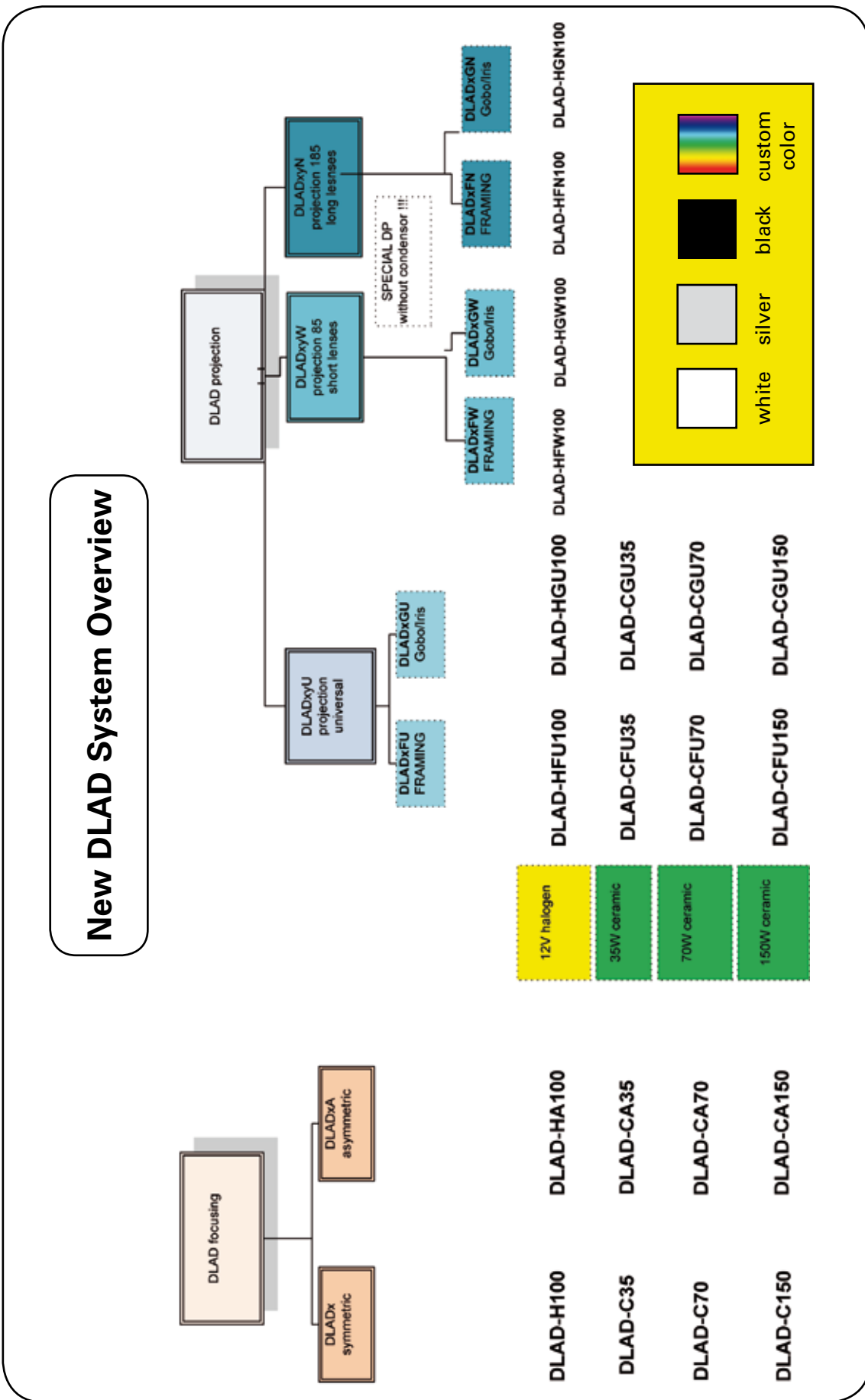


Gobo holder

DPIR



Full metal Iris, allowing the creation of almost perfectly round images and varying sizes
18 leaves



DEDOLIGHT CODES and THEIR DEFINITIONS

DLAD Dedolight Architecture and Display lights

A Asymmetrical light distribution – we are very proud of this patented optical breakthrough. This is the world's first focusing light source, which provides an asymmetrical light distribution. Especially suitable for lighting of objects from an angle where it is desirable to have equal light intensity on the entire subject.

C Ceramic lamps

Much higher light efficiency than halogen lamps (approximately four times more light output).

Long lifetime, approximately 6000h, which usually would calculate for two years operation in a museum.

Available in three different wattages:

35W
 - available as WDL G12 – 3000 K, 3300 lumen
 - available as NDL G12 – approx. 4000 K, 3100 lumen

70W

- available as WDL G12 – approx. 3000 K, 14500 lumen
 - available as NDL G12 – approx. 4000 K, 13700 lumen
 - BA-DAY 150W, approx. 5600 K, 13000 lumen

150W

- available as WDL G12 – approx. 3000 K, 14500 lumen
 - available as NDL G12 – approx. 4000 K, 13700 lumen
 - BA-DAY 150W, approx. 5600 K, 13000 lumen

For all three wattages 35 W, 70 W and 150 W, the lower color temperatures WDL approx. 3000 lumen and NDL approx. 4000 K are available. For the 150W we also offer the highly light efficient BA-DAY with clean daylight color spectrum and characteristics.

DALI Digital Addressable Lighting Interface is a communication protocol for individually addressable light fittings in the architectural field.

DIM Dimming option. High frequency dimming available for lights with halogen lamps.

DMX512-A Is a communication protocol for light fixtures in stage lighting.

H Halogen lamp

Usually for museum, galleries and display. It is desirable to work with long-life lamps, which are now offered with 3000 or 4000h lifetime. Here we are mainly talking about 12V lamp with GY6.35 base, available from several manufacturers.

100W/12V GY6.35 4000h 1800 lumen (Sylvania)
 90W/12V GY6.35 4000h 1800 lumen
 75W/12V GY6.35 4000h 1450 lumen
 50W/12V GY6.35 4000h 910 lumen
 35W/12V GY6.35 4000h 600 lumen
 20W/12V GY6.35 4000h 320 lumen

12V lamps 100W can also be found with much higher light output and higher color temperature but with relatively short life expectancy.

That is why those lamps occasionally are used for temporary exhibitions, displays or shows lasting only a few days, namely:

100W/12V ANSI type FCR 3600 lumen, life expectancy approx. 100h, possibly longer when undervolted

For special purposes we can also deliver the lights (option) with 24 V/150W transformers. This type of lamp does not exist with "real" long-life property, but such lamps offer very high output like ANSI code FCS, 6000 lumen, rated life expectancy 50h – in our experience good for 120h and possibly for 500h or 600h if 10 percent undervolted. A little bit longer lifetime is offered by:

ANSI code FDV, 24 V/150 W, 5000 lumen, 300h rated life expectancy, double or more when slightly undervolted.

U Refers to lights which work with Projection Attachment/ Imager, universal version. Fits all of our lenses – wide-angle and telephoto and different versions of Projection Attachment/ Imager, namely:

G Projection Attachment/ Imager suitable for Gobo, Iris (lose framing shutter blades)

F Framing shutter (built-in)

N Narrow angle referring to longer focal length lenses, like 150mm, 185mm and the two zoom lenses

W Wide, referring to Projection Attachment/Imager, suitable for shorter focal length lenses. Wide angle of light exit for 50mm, 60mm, 85mm and the two zoom lenses

Please note: types U, V, F, N and W cannot be used as focusing lights. They are dedicated Projection Attachment/Imager lights with best technical function for solely this purpose.

WA Refers to optical wide-angle attachment for lighting of larger objects from close proximity, especially useful for asymmetric version of lights



Aurora Gallery, Moscow



Mercedes Museum, Stuttgart

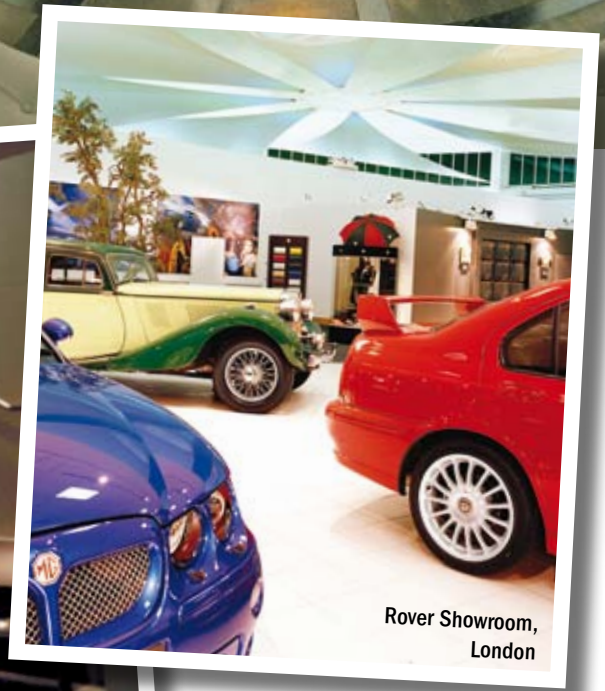


Mozarts Birthplace, Salzburg

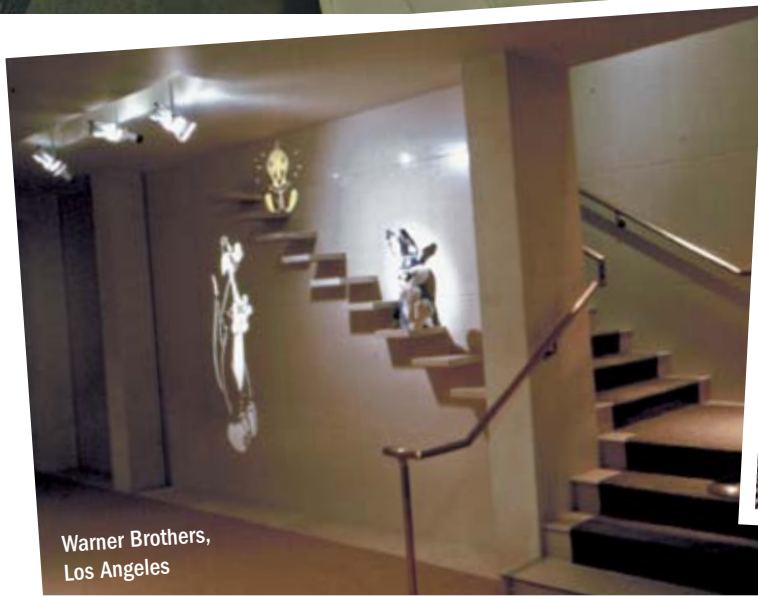
DLAD lights in action throughout the world



Aurora Gallery, Moscow



Rover Showroom,
London



Warner Brothers,
Los Angeles



Aurora Gallery, Moscow

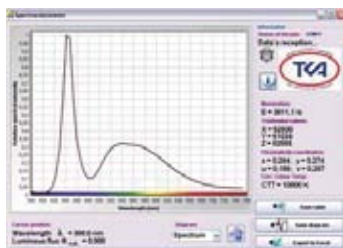
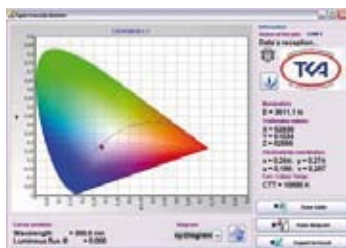
LIGHT METERS and SPECTRAL ANALYSIS



VD Spectrocolorimeter (1600-16000K CCT)

Spectral-Analysis of light sources: relative spectral distribution, chromaticity coordinates x, y, u, v, tristimulus values X, Y, Z and correlated colour temperature Tc

Works as Stand-Alone Unit and can be connected to any Computer with the Free Spectrocolorimeter Software.



PKM (model 06)

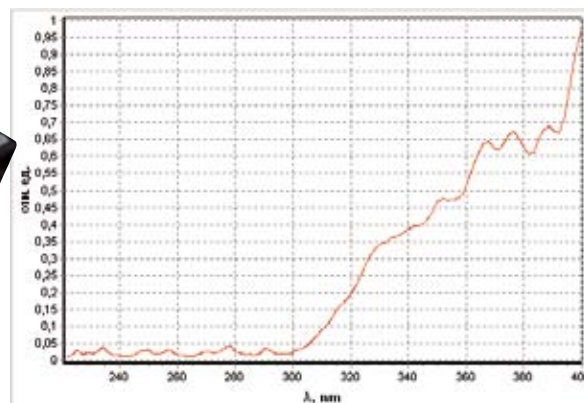
UV Meter for UV-A, -B and -C
- Illuminance (Lux), Irradiance (mW/m²)
and UV/VIS (μW/lm)

Range: 10-20.000 lux (visible),
10-40.000 mW/m² (uv)



UV Spectroradiometer (200-400nm)

Integrating UV-Spectral-meter; comes with computer software



PHOTOMETRICS

DLAD-H100 (12V/100W)									
Distance	Meter	1	2	3	4	5	10	15	20
	Feet	3'	6'	9'	12'	15'	30'	45'	60'
Flood	Lux	1053	263	117	66	42			
	Foot Candle	98	24	11	6	4			
Medium	Lux	2835	709	315	177	113			
	Foot Candle	263	66	29	16	11			
Spot	Lux	14580	3645	1620	911	583	145	64	
	Foot Candle	1355	340	150	85	54	14	6	

DLAD-C70 (70W/NDL)									
Distance	Meter	1	2	3	4	5	10	15	20
	Feet	3'	6'	9'	12'	15'	30'	45'	60'
Flood	Lux	2745	686	305	172	110			
	Foot Candle	255	64	28	16	10			
Medium	Lux	7686	1922	854	480	307	77		
	Foot Candle	714	179	79	45	29	7		
Spot	Lux	16110	4028	1790	1007	644	161	72	
	Foot Candle	1497	374	166	94	60	15	7	

DLAD-C70 (70W/WDL)									
Distance	Meter	1	2	3	4	5	10	15	20
	Feet	3'	6'	9'	12'	15'	30'	45'	60'
Flood	Lux	3555	889	395	222	142			
	Foot Candle	330	83	37	21	13			
Medium	Lux	9954	2489	1106	622	398	100		
	Foot Candle	925	231	103	58	37	9		
Spot	Lux	20250	5063	2250	1266	810	203	90	51
	Foot Candle	1882	470	209	118	75	19	8	5

DLAD-C150 (150W/NDL)									
Distance	Meter	1	2	3	4	5	10	15	20
	Feet	3'	6'	9'	12'	15'	30'	45'	60'
Flood	Lux	4320	1080	480	270	173	43		
	Foot Candle	401	100	45	25	16	40		
Medium	Lux	12096	3024	1344	756	484	121	54	
	Foot Candle	1124	281	125	70	45	11	5	
Spot	Lux	21150	5288	2350	1322	846	212	94	
	Foot Candle	1966	491	218	123	79	20	9	

DLAD-C150 (150W/WDL)									
Distance	Meter	1	2	3	4	5	10	15	20
	Feet	3'	6'	9'	12'	15'	30'	45'	60'
Flood	Lux	5715	1429	635	357	229	57		
	Foot Candle	531	133	59	33	21	5		
Medium	Lux	16000	4000	1778	1000	640	160	71	
	Foot Candle	1487	372	165	93	59	15	7	
Spot	Lux	32400	8100	3600	2025	1296	324	144	81
	Foot Candle	3011	753	335	188	120	30	13	8

DLAD Dedolight Architectural and Display LIGHTS

DLAD-HA100 (12V/100W)									
Distance	Meter	1	2	3	4	5	10	15	20
	Feet	3'	6'	9'	12'	15'	30'	45'	60'
Flood	Lux	880	220	97	55				
	Foot Candle	82	21	9	5				
Medium	Lux	1680	420	186					
	Foot Candle	156	39	17					
Spot	Lux	3040	760	337	190	122			
	Foot Candle	282	71	31	18	11			

DLAD-HA100 (12V/100W WA)									
Distance	Meter	1	2	3	4	5	10	15	20
	Feet	3'	6'	9'	12'	15'	30'	45'	60'
Flood	Lux	168	42	19					
	Foot Candle	16	4	2					
Medium	Lux	208	52	23					
	Foot Candle	19	5	2					
Spot	Lux	240	60	27					
	Foot Candle	22	6	3					

DLAD-CA70 (70W/NDL)									
Distance	Meter	1	2	3	4	5	10	15	20
	Feet	3'	6'	9'	12'	15'	30'	45'	60'
Flood	Lux	1600	400	178	100	64			
	Foot Candle	149	37	17	9	6			
Medium	Lux	2600	650	289	163	104	26		
	Foot Candle	241	60	27	15	10	2		
Spot	Lux	4400	1100	489	275	176	44		
	Foot Candle	409	102	45	26	16	4		

DLAD-CA70 (70W/NDL WA)									
Distance	Meter	1	2	3	4	5	10	15	20
	Feet	3'	6'	9'	12'	15'	30'	45'	60'
Flood	Lux	380	95	42					
	Foot Candle	35	9	4					
Medium	Lux	440	110	49	28				
	Foot Candle	41	10	5	3				
Spot	Lux	520	130	58					
	Foot Candle	48	12	5					

DLAD-CA150 (150W/NDL)									
Distance	Meter	1	2	3	4	5	10	15	20
	Feet	3'	6'	9'	12'	15'	30'	45'	60'
Flood	Lux	2800	700	311	175	112	28		
	Foot Candle	260	65	29	16	10	3		
Medium	Lux	4000	1000	444	250	160	40		
	Foot Candle	371	93	41	23	15	4		
Spot	Lux	6400	1600	711	400	256	64		
	Foot Candle	594	149	66	37	24	6		

DLAD-CA150 (150W/NDL WA)									
Distance	Meter	1	2	3	4	5	10	15	20
	Feet	3'	6'	9'	12'	15'	30'	45'	60'
Flood	Lux	720	180	80	45	29			
	Foot Candle	67	17	7	4	3			
Medium	Lux	760	190	85	48	30			
	Foot Candle	71	18	8	4	3			
Spot	Lux	820	205	91	51				
	Foot Candle	76	19	8	5				

DLAD-HFU100 with 185mm lens (12V/100W)								
Distance	metres	0,5	1	2	3	4	5	7
	feet	1,5	3	6	9	12	15	21
Diameter Round Ø	cm	9	18	36	54	72	90	126
	inch	4	7	14	21	28	35	50
Size square	cmxcm	7	13	26	39	52	65	91
	inch	3	5	10	15	20	26	36
Illumination	lux	24000	6000	1500	667	375	240	122
	fc	2249	562	141	62	35	22	11

DLAD-HFU100 with 150mm lens (12V/100W)								
Distance	metres	0,5	1	2	3	4	5	7
	feet	1,5	3	6	9	12	15	21
Diameter Round Ø	cm	11	22	44	66	88	110	154
	inch	4	9	17	26	35	43	61
Size square	cmxcm	8	16	32	48	64	80	112
	inch	3	6	13	19	25	32	44
Illumination	lux	19200	4800	1200	533	300	192	98
	fc	1799	450	112	50	28	18	9,2

DLAD-HFU100 with 85mm lens (12V/100W)								
Distance	metres	0,5	1	2	3	4	5	7
	feet	1,5	3	6	9	12	15	21
Diameter Round Ø	cm	23	45	90	135	180	225	315
	inch	9	18	35	53	71	89	124
Size square	cmxcm	17	34	67	101	134	168	235
	inch	7	13	26	40	53	66	92
Illumination	lux	4800	1200	300	133	75	48	24
	fc	450	112	28	12	7	4,5	2,3

DLAD-HFU100 with 60mm lens (12V/100W)								
Distance	metres	0,5	1	2	3	4	5	7
	feet	1,5	3	6	9	12	15	21
Diameter Round Ø	cm	32	64	127	191	254	318	445
	inch	13	25	50	75	100	125	175
Size square	cmxcm	23	47	93	140	186	233	326
	inch	9	18	37	55	73	92	128
Illumination	lux	2256	564	141	63	35	23	12
	fc	211	53	13	6	3	2,1	1,1

DLAD-HFU100 with 50mm lens (12V/100W)								
Distance	metres	0,5	1	2	3	4	5	7
	feet	1,5	3	6	9	12	15	21
Diameter Round Ø	cm	37	74	148	222	296	370	518
	inch	15	29	58	87	117	146	204
Size square	cmxcm	27	54	108	162	216	270	378
	inch	11	21	43	64	85	106	149
Illumination	lux	1600	400	100	44	25	16	8
	fc	150	37	9	4	2	1,5	0,8

DLAD-HFU100 with zoom lens 70-120mm at 70mm (12V/100W)								
Distance	metres	0,5	1	2	3	4	5	7
	feet	1,5	3	6	9	12	15	21
Diameter Round Ø	cm	27	53	106	159	212	265	371
	inch	10	21	42	63	84	104	146
Size square	cmxcm	20	39	78	117	156	195	273
	inch	8	15	31	46	61	77	108
Illumination	lux	2848	712	178	79	45	28	15
	fc	267	67	17	7	4	2,7	1,4

DLAD-HFU100 with zoom lens 70-120mm at 120mm (12V/100W)								
Distance	metres	0,5	1	2	3	4	5	7
	feet	1,5	3	6	9	12	15	21
Diameter Round Ø	cm	15	30	59	89	118	148	207
	inch	6	12	23	35	46	58	81
Size square	cmxcm	11	22	44	66	88	110	154
	inch	4	9	17	26	35	43	61
Illumination	lux	8160	2040	510	227	128	82	42
	fc	765	191	48	21	12	7,6	3,9

DLAD-HFU100 with zoom lens 85-150mm at 85mm (12V/100W)								
Distance	metres	0,5	1	2	3	4	5	7
	feet	1,5	3	6	9	12	15	21
Diameter Round Ø	cm	22	44	87	131	174	218	305
	inch	9	17	34	51	69	86	120
Size square	cmxcm	16	32	63	95	126	158	221
	inch	6	12	25	37	50	62	87
Illumination	lux	4320	1080	270	120	68	43	22
	fc	405	101	25	11	6	4,0	2,1

DLAD-HFU100 with zoom lens 85-150mm at 150mm (12V/100W)								
Distance	metres	0,5	1	2	3	4	5	7
	feet	1,5	3	6	9	12	15	21
Diameter Round Ø	cm	12	24	48	72	96	120	168
	inch	5	9	19	28	38	47	66
Size square	cmxcm	9	18	36	54	72	90	126
	inch	4	7	14	21	28	35	50
Illumination	lux	11840	2960	740	329	185	118	60
	fc	1110	277	69	31	17	11,1	5,7

DLAD-CFU70 with 185mm lens (70W/NDL)								
Distance	metres	0,5	1	2	3	4	5	7
	feet	1,5	3	6	9	12	15	21
Diameter Round Ø	cm	9	19	37	56	74	93	130
	inch	4	7	15	22	29	36	51
Size square	cmxcm	7	14	27	41	54	68	95
	inch	3	5	11	16	21	27	37
Illumination	lux	52000	13000	3250	1444	813	520	265
	fc	4873	1218	305	135	76	49	25

DLAD-CFU70 with 150mm lens (70W/NDL)								
Distance	metres	0,5	1	2	3	4	5	7
	feet	1,5	3	6	9	12	15	21
Diameter Round Ø	cm	11	23	45	68	90	113	158
	inch	4	9	18	27	35	44	62
Size square	cmxcm	8	17	33	50	66	83	116
	inch	3	7	13	20	26	33	46
Illumination	lux	43200	10800	2700	1200	675	432	220
	fc	4049	1012	253	112	63	40	21

DLAD-CFU70 with 85mm lens (70W/NDL)								
Distance	metres	0,5	1	2	3	4	5	7
	feet	1,5	3	6	9	12	15	21
Diameter Round Ø	cm	23	46	92	138	184	230	322
	inch	9	18	36	54	72	91	127
Size square	cmxcm	17	34	67	101	134	168	235
	inch	7	13	26	40	53	66	92
Illumination	lux	11760	2940	735	327	184	118	60
	fc	1102	276	69	31	17	11	5,6

DLAD-CFU70 with 50mm lens (70W NDL)								
Distance	metres	0,5	1	2	3	4	5	7
	feet	1,5	3	6	9	12	15	21
Diameter Round Ø	cm	38	75	150	225	300	375	525
	inch	15	30	59	89	118	148	207
Size square	cmxcm	27	55	109	164	218	273	382
	inch	11	21	43	64	86	107	150
Illumination	lux	3680	920	230	102	58	37	19
	fc	345	86	22	10	5,4	3,4	1,8

DLAD-CFU70 with 60mm lens (70W NDL)								
Distance	metres	0,5	1	2	3	4	5	7
	feet	1,5	3	6	9	12	15	21
Diameter Round Ø	cm	33	65	130	195	260	325	455
	inch	13	26	51	77	102	128	179
Size square	cmxcm	24	47	94	141	188	235	329
	inch	9	19	37	56	74	93	130
Illumination	lux	5440	1360	340	151	85	54	28
	fc	510	127	32	14	8	5,1	2,6

DLAD Dedolight Architectural and Display LIGHTS

DLAD-CFU70 with zoom lens 70-120mm at 70mm (70W NDL)								
Distance	metres	0,5	1	2	3	4	5	7
	feet	1,5	3	6	9	12	15	21
Diameter Round Ø	cm	27	54	107	161	214	268	375
	inch	11	21	42	63	84	105	148
Size square	cmxcm	19	39	77	116	154	193	270
	inch	8	15	30	46	61	76	106
Illumination	lux	6560	1640	410	182	103	66	33
	fc	615	154	38	17	10	6,1	3,1

DLAD-CFU70 with zoom lens 70-120mm at 120mm (70W NDL)								
Distance	metres	0,5	1	2	3	4	5	7
	feet	1,5	3	6	9	12	15	21
Diameter Round Ø	cm	15	29	58	87	116	145	203
	inch	6	11	23	34	46	57	80
Size square	cmxcm	11	21	42	63	84	105	147
	inch	4	8	17	25	33	41	58
Illumination	lux	18080	4520	1130	502	283	181	92
	fc	1694	424	106	47	26	17	8,6

DLAD-CFU70 with zoom lens 85-150mm at 85mm (70W/NDL)								
Distance	metres	0,5	1	2	3	4	5	7
	feet	1,5	3	6	9	12	15	21
Diameter Round Ø	cm	22	43	86	129	172	215	301
	inch	8	17	34	51	68	85	119
Size square	cmxcm	16	32	63	95	126	158	221
	inch	6	12	25	37	50	62	87
Illumination	lux	9440	2360	590	262	148	94	48
	fc	885	221	55	25	14	8,8	4,5

DLAD-CFU70 with zoom lens 85-150mm at 150mm (70W/NDL)								
Distance	metres	0,5	1	2	3	4	5	7
	feet	1,5	3	6	9	12	15	21
Diameter Round Ø	cm	12	24	48	72	96	120	168
	inch	5	9	19	28	38	47	66
Size square	cmxcm	9	17	34	51	68	85	119
	inch	3	7	13	20	27	33	47
Illumination	lux	25280	6320	1580	702	395	253	129
	fc	2369	592	148	66	37	24	12

DLAD-CFU150 with 185mm lens (150W/NDL)								
Distance	metres	0,5	1	2	3	4	5	7
	feet	1,5	3	6	9	12	15	21
Diameter Round Ø	cm	10	21	41	62	82	103	144
	inch	4	8	16	24	32	40	57
Size square	cmxcm	7	15	29	44	58	73	102
	inch	3	6	11	17	23	29	40
Illumination	lux	84800	21200	5300	2356	1325	848	433
	fc	7948	1987	497	221	124	79	41

DLAD-CFU150 with 150mm lens (150W/NDL)								
Distance	metres	0,5	1	2	3	4	5	7
	feet	1,5	3	6	9	12	15	21
Diameter Round Ø	cm	12	25	49	74	98	123	172
	inch	5	10	19	29	39	48	68
Size square	cmxcm	9	18	35	53	70	88	123
	inch	3	7	14	21	28	34	48
Illumination	lux	76800	19200	4800	2133	1200	768	392
	fc	7198	1799	450	200	112	72	37

DLAD-CFU150 with 85mm lens (150W/NDL)								
Distance	metres	0,5	1	2	3	4	5	7
	feet	1,5	3	6	9	12	15	21
Diameter Round Ø	cm	24	48	96	144	192	240	336
	inch	9	19	38	57	76	95	132
Size square	cmxcm	18	36	72	108	144	180	252
	inch	7	14	28	43	57	71	99
Illumination	lux	19840	4960	1240	551	310	198	101
	fc	1859	465	116	52	29	19	9

DLAD-CFU150 with 60mm lens 150W/NDL)								
Distance	metres	0,5	1	2	3	4	5	7
	feet	1,5	3	6	9	12	15	21
Diameter Round Ø	cm	34	67	134	201	268	335	469
	inch	13	26	53	79	106	132	185
Size square	cmxcm	25	50	100	150	200	250	350
	inch	10	20	39	59	79	99	138
Illumination	lux	8320	2080	520	231	130	83	42
	fc	780	195	49	22	12	8	4

DLAD-CFU150 with 50mm lens (150W/NDL)								
Distance	metres	0,5	1	2	3	4	5	7
	feet	1,5	3	6	9	12	15	21
Diameter Round Ø	cm	40	79	158	237	316	395	553
	inch	16	31	62	93	125	156	218
Size square	cmxcm	30	59	118	177	236	295	413
	inch	12	23	46	70	93	116	163
Illumination	lux	5600	1400	350	156	88	56	29
	fc	525	131	33	15	8	5	3

DLAD Dedolight Architectural and Display LIGHTS

DLAD-CFU150 with zoom lens 70-120mm at 70mm (150W/NDL)								
Distance	metres	0,5	1	2	3	4	5	7
	feet	1,5	3	6	9	12	15	21
Diameter Round Ø	cm	28	56	112	168	224	280	392
	inch	11	22	44	66	88	110	154
Size square	cmxcm	20	41	81	122	162	203	284
	inch	8	16	32	48	64	80	112
Illumination	lux	11360	2840	710	316	178	114	58
	fc	1065	266	67	30	17	11	5

DLAD-CFU150 with zoom lens 70-120mm at 120mm (150W/NDL)								
Distance	metres	0,5	1	2	3	4	5	7
	feet	1,5	3	6	9	12	15	21
Diameter Round Ø	cm	15	31	61	92	122	153	214
	inch	6	12	24	36	48	60	84
Size square	cmxcm	11	23	45	68	90	113	158
	inch	4	9	18	27	35	44	62
Illumination	lux	30560	7640	1910	849	478	306	156
	fc	2864	716	179	80	45	29	15

DLA- CFU150 with zoom lens 85-150mm at 85mm (150W/NDL)								
Distance	metres	0,5	1	2	3	4	5	7
	feet	1,5	3	6	9	12	15	21
Diameter Round Ø	cm	23	46	92	138	184	230	322
	inch	9	18	36	54	72	91	127
Size square	cmxcm	17	34	67	101	134	168	235
	inch	7	13	26	40	53	66	92
Illumination	lux	15680	3920	980	436	245	157	80
	fc	1470	367	92	41	23	15	7

DLAD-CFU150 with zoom lens 85-150mm at 150mm (150W/NDL)								
Distance	metres	0,5	1	2	3	4	5	7
	feet	1,5	3	6	9	12	15	21
Diameter Round Ø	cm	13	25	50	75	100	125	175
	inch	5	10	20	30	39	49	69
Size square	cmxcm	9	19	37	56	74	93	130
	inch	4	7	15	22	29	36	51
Illumination	lux	38400	9600	2400	1067	600	384	196
	fc	3599	900	225	100	56	36	18

DLAD-HFW100 with 150mm lens (12V/100W)								
Distance	metres	0,5	1	2	3	4	5	7
	feet	1,5	3	6	9	12	15	21
Diameter Round Ø	cm	15	30	60	90	120	150	210
	inch	6	12	24	35	47	59	83
Size square	cmxcm	10	20	40	60	80	100	140
	inch	4	8	16	24	32	39	55
Illumination	lux	35680	8920	2230	991	558	357	182
	fc	3344	836	209	93	52	33	17

DLAD-HFW100 with 85mm lens (12V/100W)								
Distance	metres	0,5	1	2	3	4	5	7
	feet	1,5	3	6	9	12	15	21
Diameter Round Ø	cm	26	53	105	158	210	263	368
	inch	10	21	41	62	83	103	145
Size square	cmxcm	18	35	70	105	140	175	245
	inch	7	14	28	41	55	69	97
Illumination	lux	12640	3160	790	351	198	126	64
	fc	1185	296	74	33	19	12	6

DLAD-HFW100 with 60mm lens (12V/100W)								
Distance	metres	0,5	1	2	3	4	5	7
	feet	1,5	3	6	9	12	15	21
Diameter Round Ø	cm	35	70	140	210	280	350	490
	inch	14	28	55	83	110	138	193
Size square	cmxcm	25	50	100	150	200	250	350
	inch	10	20	39	59	79	99	138
Illumination	lux	6880	1720	430	191	108	69	35
	fc	645	161	40	18	10	6,4	3,3

DLAD-HFW100 with 50mm lens (12V/100W)								
Distance	metres	0,5	1	2	3	4	5	7
	feet	1,5	3	6	9	12	15	21
Diameter Round Ø	cm	39	78	155	233	310	388	543
	inch	15	31	61	92	122	153	214
Size square	cmxcm	28	55	110	165	220	275	385
	inch	11	22	43	65	87	108	152
Illumination	lux	4160	1040	260	116	65	42	21
	fc	390	97	24	11	6	3,9	2,0

DLAD-HFW100 with zoom lens 70-120mm at 70mm (12V/100W)								
Distance	metres	0,5	1	2	3	4	5	7
	feet	1,5	3	6	9	12	15	21
Diameter Round Ø	cm	31	63	125	188	250	313	438
	inch	12	25	49	74	99	123	172
Size square	cmxcm	21	43	85	128	170	213	298
	inch	8	17	33	50	67	84	117
Illumination	lux	6240	1560	390	173	98	62	32
	fc	585	146	37	16	9	6	3

DLAD Dedolight Architectural and Display LIGHTS

DLAD-HFW100 with zoom lens 70-120mm at 120mm (12V/100W)								
Distance	metres	0,5	1	2	3	4	5	7
	feet	1,5	3	6	9	12	15	21
Diameter Round Ø	cm	17	34	68	102	136	170	238
	inch	7	13	27	40	54	67	94
Size square	cmxcm	12	24	48	72	96	120	168
	inch	5	9	19	28	38	47	66
Illumination	lux	14880	3720	930	413	233	149	76
	fc	1395	349	87	39	22	14	7

DLAD-HFW100 with zoom lens 85-150mm at 85mm (12V/100W)								
Distance	metres	0,5	1	2	3	4	5	7
	feet	1,5	3	6	9	12	15	21
Diameter Round Ø	cm	25	50	100	150	200	250	350
	inch	10	20	39	59	79	99	138
Size square	cmxcm	18	36	72	108	144	180	252
	inch	7	14	28	43	57	71	99
Illumination	lux	8640	2160	540	240	135	86	44
	fc	810	202	51	22	13	8	4

DLAD-HFW100 with zoom lens 85-150mm at 150mm (12V/100W)								
Distance	metres	0,5	1	2	3	4	5	7
	feet	1,5	3	6	9	12	15	21
Diameter Round Ø	cm	14	28	55	83	110	138	193
	inch	5	11	22	33	43	54	76
Size square	cmxcm	11	22	44	66	88	110	154
	inch	4	9	17	26	35	43	61
Illumination	lux	17280	4320	1080	480	270	173	88
	fc	1619	405	101	45	25	16	8

DLAD-HFN100 with 185mm lens (12V/100W)								
Distance	metres	0,5	1	2	3	4	5	7
	feet	1,5	3	6	9	12	15	21
Diameter Round Ø	cm	10	20	40	60	80	100	140
	inch	4	8	16	24	32	39	55
Size square	cmxcm	7	14	28	42	56	70	98
	inch	3	6	11	17	22	28	39
Illumination	lux	41600	10400	2600	1156	650	416	212
	fc	3899	975	244	108	61	39	20

DLAD-HFN100 with 150mm lens (12V/100W)								
Distance	metres	0,5	1	2	3	4	5	7
	feet	1,5	3	6	9	12	15	21
Diameter Round Ø	cm	15	30	60	90	120	150	210
	inch	6	12	24	35	47	59	83
Size square	cmxcm	10	20	40	60	80	100	140
	inch	4	8	16	24	32	39	55
Illumination	lux	45600	11400	2850	1267	713	456	233
	fc	4274	1068	267	119	67	43	22

DLAD-HFN100 with 85mm lens (12V100W)								
Distance	metres	0,5	1	2	3	4	5	7
	feet	1,5	3	6	9	12	15	21
Diameter Round Ø	cm	26	53	105	158	210	263	368
	inch	10	21	41	62	83	103	145
Size square	cmxcm	18	35	70	105	140	175	245
	inch	7	14	28	41	55	69	97
Illumination	lux	12640	3160	790	351	198	126	64
	fc	1185	296	74	33	19	12	6

DLAD-HFN100 with zoom lens 70-120mm at 70mm (12V/100W)								
Distance	metres	0,5	1	2	3	4	5	7
	feet	1,5	3	6	9	12	15	21
Diameter Round Ø	cm	31	63	125	188	250	313	438
	inch	12	25	49	74	99	123	172
Size square	cmxcm	21	43	85	128	170	213	298
	inch	8	17	33	50	67	84	117
Illumination	lux	6080	1520	380	169	95	61	31
	fc	570	142	36	16	9	6	3

DLAD-HFN100 with zoom lens 70-120mm at 120mm (12V/100W)								
Distance	metres	0,5	1	2	3	4	5	7
	feet	1,5	3	6	9	12	15	21
Diameter Round Ø	cm	17	34	68	102	136	170	238
	inch	7	13	27	40	54	67	94
Size square	cmxcm	12	24	48	72	96	120	168
	inch	5	9	19	28	38	47	66
Illumination	lux	17600	4400	1100	489	275	176	90
	fc	1649	412	103	46	26	16	8

DLAD-HFN100 with zoom lens 85-150mm at 85mm (12V/100W)								
Distance	metres	0,5	1	2	3	4	5	7
	feet	1,5	3	6	9	12	15	21
Diameter Round Ø	cm	25	50	100	150	200	250	350
	inch	10	20	39	59	79	99	138
Size square	cmxcm	18	36	72	108	144	180	252
	inch	7	14	28	43	57	71	99
Illumination	lux	8320	2080	520	231	130	83	42
	fc	780	195	49	22	12	8	4

DLAD-HFN100 with zoom lens 85-150mm at 150mm (12V/100W)								
Distance	metres	0,5	1	2	3	4	5	7
	feet	1,5	3	6	9	12	15	21
Diameter Round Ø	cm	14	28	55	83	110	138	193
	inch	5	11	22	33	43	54	76
Size square	cmxcm	10	20	40	60	80	100	140
	inch	4	8	16	24	32	39	55
Illumination	lux	19200	4800	1200	533	300	192	98
	fc	1799	450	112	50	28	18	9



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