

## DOWNLIGHTS | DL2 Spectral Enhanced Series



### OVERVIEW

Ellipz LED DownLight DL2 series is designed with customers' requirement for minimum installation and retrofitting effort. It comes with external SELV driver concept comprising of 2 lamps of 800 and 1500 lumen. Ellipz LED DownLight DL2 series is designed for use in retail, office and residential applications. It is a perfect replacement for PAR and PLC down-lights.



#### KEY PRODUCT BENEFITS

- CRI>90
- High S/P ratio up to 2.1
- Guarantee of 30,000 lifetime hours / L85B15
- SELV driver for extra safety
- No fuss spring clip installation



#### KEY FINANCIAL BENEFITS

- ROI is less than 1 year for 24/7 applications
- Leasing program where you can get free product in exchange for sharing your savings.
- Lower net expenses



#### ENVIRONMENTAL SENSIBILITY

- Energy savings over 80%
- Contains no hazardous substances
- Ultraviolet Free
- Recycling program for replaced bulbs

### INNOVATION

We are an innovation company first, and a lighting company second. Since 2005, we have been perfecting LED technology, manufacturing, and successfully installing our products worldwide, first as Lemnis Lighting and now as Ellipz Lighting.

### ELLIPZ LUMINAIRE

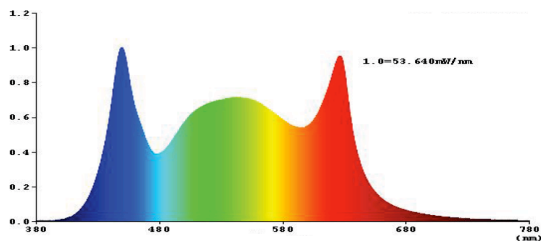
We combine knowledge of visual perception with the newest LED and lighting technologies. The light sources in Ellipz luminaires are red and single-phosphor cyan LEDs. With this proprietary concept, an optimal light spectrum is developed so that excellent vision is obtained with little energy. The basic principle is that a higher S/P ratio for maximum energy savings results in lighting with high Equivalent Visual Efficiency (EVE).

### BETTER VISIBILITY WITH LESS ENERGY

Ellipz Lighting has developed a pioneering concept in LED lighting for the illumination of parking areas, outdoor areas and public spaces. Based on our patented technology we create light that perfectly matches the sensitivity of the human eye for optimal functioning while indoor and during nighttime conditions.

# PRODUCT SPECS | DL2 Spectral Enhanced Series

\* Equivalent Visual Efficiency (EVE) is based on IES TM 24-13 recommendation which is calculated as follows:  $EVE = \text{Photopic lumen} \times (S/P \text{ Ratio})^{\wedge}0.8$



**DL2 | 4" WB**

3000K (4Y0KU10AC0)  
4000K (4Y0KU40AC0)  
5000K (4Y0KU20AC0)  
5700K (4Y0KU70AC0)

**DL2 | 6" WB**

3000K (4Y0LV10AC0)  
4000K (4Y0LV40AC0)  
5000K (4Y0LV20AC0)  
5700K (4Y0LV70AC0)

## Electrical Specs

Rated Power	9.5	17.0
Rated voltage (Vac)	100-240	100-240
Voltage range (Vac)	90~264	90~264
Rated current (A, @230Vac/50Hz)	0.045	0.080
Power consumption (W, @230Vac)	9.5	17.0
Frequency (Hz)	50 / 60	50 / 60
A-THD (% ,@240Vac/50Hz)	15%	20%
Power factor (@240Vac/50Hz)	>=0.90	>=0.90
Protection against over voltage	YES (by fuse)	YES (by fuse)
Dimmable	No	No
Driver output overload protection	Yes, auto-reversible	Yes, auto-reversible

## Optical Specs

Lumen output (lm)	730 / 765 / 800 / 800	1400 / 1450 / 1500 / 1500
Efficacy (lm/W, @5000K CCT)	84	88
Color Rendering Index (@5000K CCT)	> 90	> 90
Saturated Red, R9 (@5000K CCT)	> 50	> 50
S/P ratio	1.8 / 1.9 / 2.0 / 2.1	1.8 / 1.9 / 2.0 / 2.1
Equivalent Visual Efficiency (lm) **	1170 / 1280 / 1390 / 1450	2240 / 2420 / 2610 / 2715
Beam Angle (°)	100	100
UGR	19	21

## Environmental Specs

Operating Temperature(°C)	-20 to 40	-20 to 40
Storage Temperature (°C)	-20 to 80	-20 to 80
Operating Humidity (%)	10% to 80%	10% to 80%
Life Span (h) , L85B15	30,000	30,000

## Mechanical Specs

Housing and lens material	Aluminium + PC	Aluminium
Diffuser	PC diffused	PC diffused
IP Rating	IP20	IP20
Diameter (mm)	115	195
Height (mm)	42	40
Weight (g)	245	410
Cut-off hole size (mm)	95 +/- 5	165 +/- 5
Mains supply connection	Bi-wire L/N terminals	Bi-wire L/N terminals
Lamp wire length (mm)	400	400

## Compliance

Certification	CE ( L VD, EMC, IEC62471 )	CE ( L VD, EMC, IEC62471 )
RoHS	Yes	Yes

# LOGISTICS DATA | DL2 Spectral Enhanced Series

## Ellipz DL2 4"

Type	Single Unit Box	Other Carton	Pallet	20ft Container Palletized	40ft Container Palletized
Quantity	1	20	960	8640	21120
Dimensions (mm)	123 x 123 x 108	635x 265x 235	1200 x 1000 x 2020	5860 x 2320x 2350	12000 x 2320 x 2350
Gross Weight (Kg)	0.350	7.5	380	3420	8360

## Ellipz DL2 6"

Type	Single Unit Box	Other Carton	Pallet	20ft Container Palletized	40ft Container Palletized
Quantity	1	10	420	3780	9240
Dimensions (mm)	258 x 225 x 69	465 x 365 x 275	1200 x 1000 x 2065	5860 x 2320x 2350	12000 x 2320x 2350
Gross Weight (Kg)	0.575	6.5	293	2637	6446