



Strand Lighting

# LEKO 1000W ELLIPSOIDAL SPOTLIGHTS



**L**eko introduces new levels of performance and flexibility to the lighting designer and at the same time brings substantial improvement in the units versatility. This new design builds on the proven and enviable heritage of the original Century Leko. Each unit is kept as compact as possible and is packed with features and patented innovations.

- Patented shutter gate assembly to give unparalleled range of cut angles.
- Burner assembly replaceable without disturbing lamp setting.
- Gate assembly can be easily removed for maintenance.
- Ergonomically designed shutter handles.
- Rock solid yoke lock off.
- Standard and close rigging positions for yoke.
- Patented lamp centring mechanism which will not drift off-centre when locked off.
- Extended beam angle range 15°/20°/30°/40°/50°.

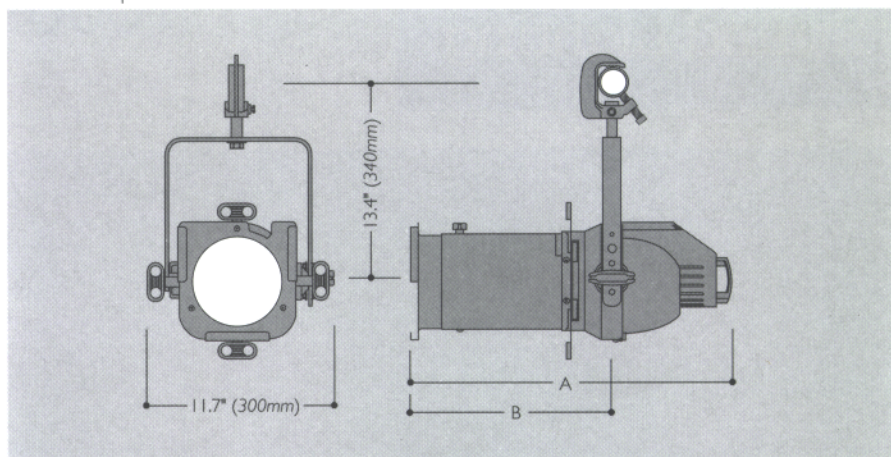


- One drop in Iris accessory for all models.
- Rotating gobo holders fit with no modification to Leko.

## Leko 2215, 2220, 2230, 2240 and 2250 1000W Ellipsoidal Spotlights



Leko Ellipsoidal Spotlights are supplied complete with four beam shaping shutters and C-Clamp.

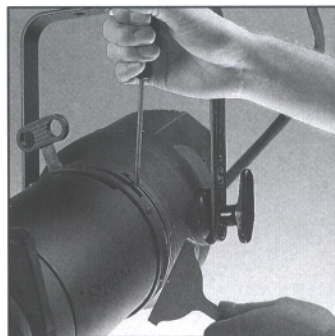


	2215	2220	2230	2240	2250
<b>A</b>	26.7" (680mm)	22.2" (565mm)	21.0" (535mm)	18.7" (475mm)	17.2" (435mm)
<b>B</b>	18.7" (475mm)	14.2" (365mm)	13.0" (335mm)	10.7" (275mm)	9.2" (235mm)
<b>Weight</b>	6.0kg (13.2 lbs)	5.8kg (12.8 lbs)	5.6kg (12.3 lbs)	5.6kg (12.3 lbs)	5.4kg (11.9 lbs)

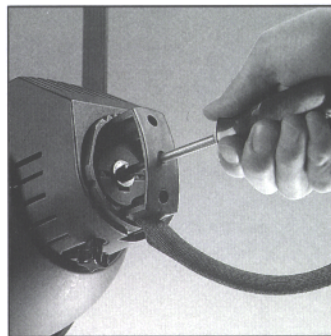
### Operational Data



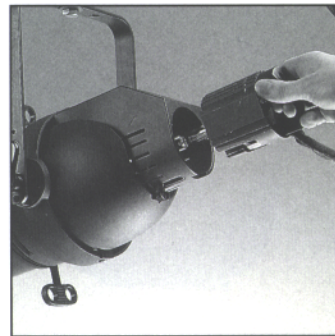
❶ Absolute tilt lock off.



❷ Revolutionary shutter system.\*



❸ Faster, easier, positive lamp alignment.\*



❹ Lamp replacement without focus loss.\*

<b>❶ Suspension and Position adjustment</b>	By means of aluminum strap yoke with 1/2" clearance center hole and two off set holes to take malleable iron C-clamp for fixing to 2" maximum diameter pipe and allow pan adjustment. The yoke is attached to unit by means of pivoting bolts to allow tilt adjustment and is locked off by interlocking cup and disc arrangement operated by heat insulating plastic handle.
<b>Focus Adjustment</b>	Rolled steel lens tube slides forward for soft focus - rearward for hard focus and is locked in set position by top mounted knob.
<b>❷ Beam Adjustment</b>	Beam shaping shutters in patented sprung gate assembly allowing $\pm 50^\circ$ adjustment of each blade. Individual blades or complete gate assembly can be removed for maintenance.
<b>❸ Lamp Adjustment</b>	Peaky/Cosine field adjustment by releasing locking knob on burner assembly which is then adjusted axially for required beam distribution.  Lamp centering is achieved by inserting Philips screwdriver through center hole in rear handle - loosening locking screw in burner base and then levering screw against handle to move lamp on to optical axis when the screw is then locked to fix lamp position.
<b>❹ Lamp Replacement</b>	Burner assembly is rotated counter-clockwise from rear handle against retainer spring pressure to allow assembly to be drawn out of the lamphouse rear casting. Refitting is the reverse procedure. This operation does not change beam.
<b>Reflector Access</b>	Rear lamphouse casting is top hinged for access to reflector and is locked by quarter turn fastener.
<b>Color Frame</b>	Designed to accept 7 1/2" x 7 1/2" color frame with attachment point for safety cable.

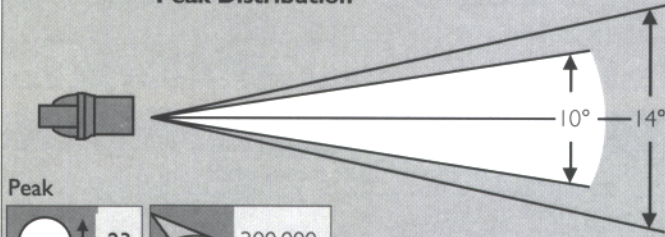
\* Patent applied for

# Performance Data

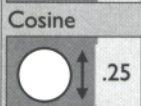
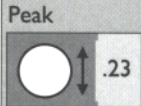
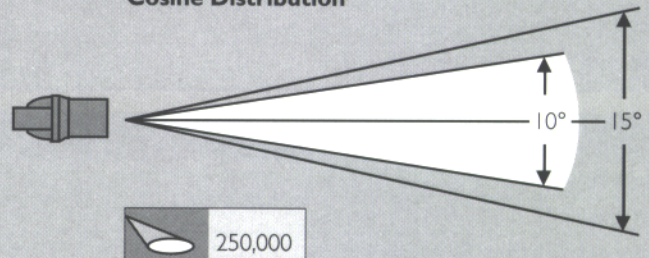
## Leko 2215

50	55	60	65	70	75	Distance Feet	50	55	60	65	70	75
120	100	85	70	60	55	Footcandles	100	85	70	60	50	40
11.5	12.5	14	15	16	17	Diameter Feet	12.5	14	15	16.5	18	19

### Peak Distribution



### Cosine Distribution

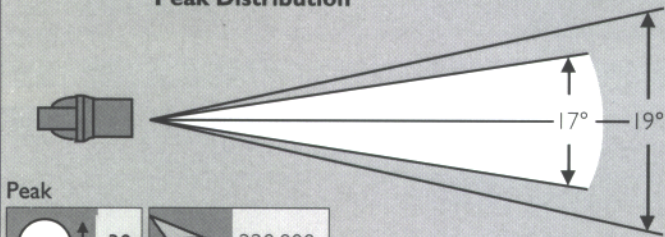


13	15	17	19	21	23	Distance m	13	15	17	19	21	23
1780	1330	1040	830	680	570	Lux	1480	1100	870	690	570	470
3.0	3.4	3.9	4.3	4.8	5.3	Diameter m	3.3	3.8	4.3	4.8	5.3	5.8

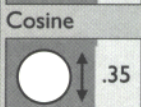
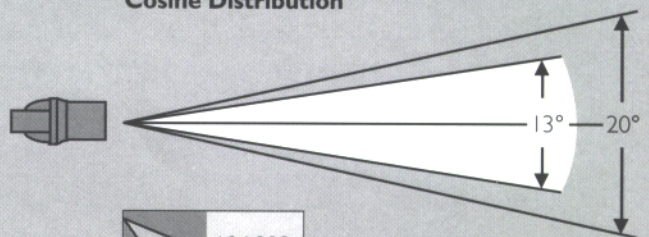
## Leko 2220

45	50	55	60	65	70	Distance Feet	45	50	55	60	65	70
110	90	75	60	50	45	Footcandles	90	75	60	50	45	40
13.5	15	16.5	18	19.5	21	Diameter Feet	16	17.5	19	21	23	24.5

### Peak Distribution



### Cosine Distribution

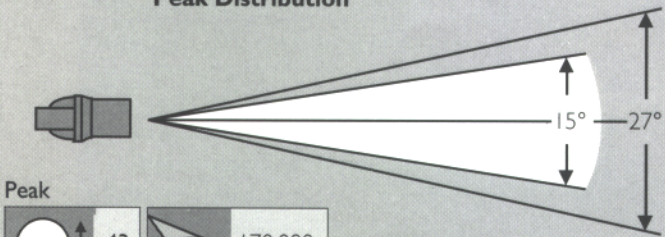


13	15	17	19	21	23	Distance m	13	15	17	19	21	23
1300	980	760	610	500	420	Lux	1090	820	640	510	420	350
3.9	4.5	5.1	5.7	6.3	6.9	Diameter m	4.5	5.2	5.9	6.6	7.3	8.0

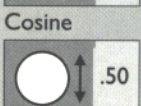
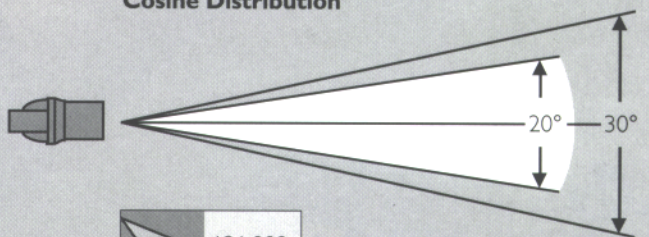
## Leko 2230

45	50	55	60	65	70	Distance Feet	40	45	50	55	60	65
85	70	55	50	40	35	Footcandles	75	60	50	40	35	30
19.5	21.5	24	26	28	30	Diameter Feet	20	22.5	25	27	30	32

### Peak Distribution



### Cosine Distribution



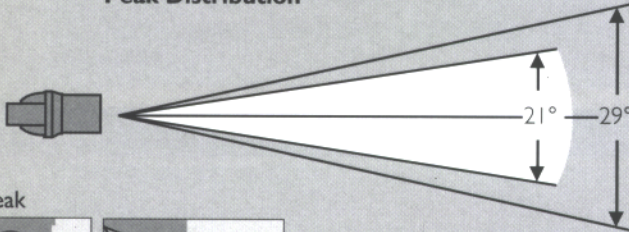
13	15	17	19	21	23	Distance m	11	13	15	17	19	21
1000	760	560	470	390	320	Lux	1000	720	540	420	340	270
5.6	6.5	7.3	8.2	9.0	9.9	Diameter m	5.5	6.5	7.5	8.4	9.4	10.4


Performance Data continued


Leko 2240

35	40	45	50	55	60	Distance Feet	30	35	40	45	50	55
90	70	55	45	40	35	Footcandles	100	75	55	45	35	30
16	18.5	21	23	25.5	28	Diameter Feet	18.5	21.5	24.5	28	31	34


Peak Distribution



Peak  
 .46

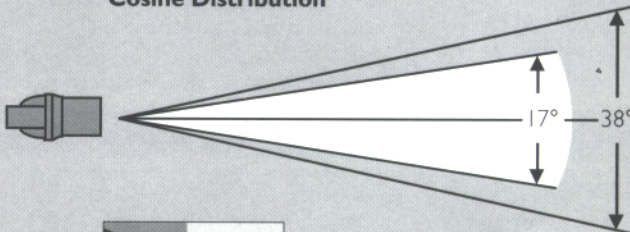
Cosine  
 .62


113,000




11	13	15	17	19	21
930	670	500	390	310	260
5.1	6.0	7.0	7.9	8.8	9.7

Cosine Distribution



Cosine  
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90,000

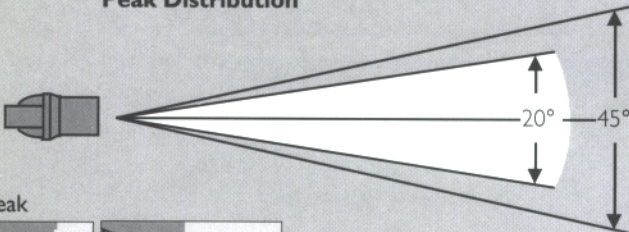



9	11	13	15	17	19
1110	740	530	400	310	250
5.5	6.8	8.0	9.2	10.5	11.7


Leko 2250

30	35	40	45	50	55	Distance Feet	30	35	40	45	50	55
75	55	45	35	30	25	Footcandles	50	35	30	25	20	15
22	26	30	33	37	41	Diameter Feet	28	32	37	41.5	46	51


Peak Distribution



Peak  
 .74

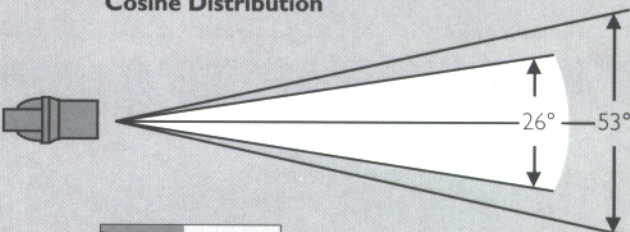
Cosine  
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9	11	13	15	17	19
840	560	400	300	240	190
6.6	8.1	9.6	11.1	12.5	14.0

Cosine Distribution



Cosine  
 46,000

46,000



9	11	13	15	17	19
560	380	270	200	160	130
8.3	10.1	12.0	13.8	15.7	17.5

## Mechanical Data

<b>Lamphouse</b>	Comprises pressure die cast aluminum body housing double flattened near ellipsoidal reflector of polished and anodised aluminum which is top pivoted to pressure die cast aluminum gate section housing four beam shaping shutters of stainless steel alloy within a sprung assembly.
<b>Burner Assembly</b>	Pressure die cast aluminum body with G9 two pin lampholder on die cast heat sink. Rear handle of heat insulating plastics incorporate restraint for lampholder leads. The complete assembly is located in the lamphousing by bayonet action and retained by spring catch.
<b>Lens Tube</b>	Ground and polished borosilicate plano convex lenses are mounted in rolled steel lens tube to the front of which is mounted a color frame holder. Lens tube slides in rolled steel housing and is locked by means of top thumbscrew.

## Electrical/Environmental Data

<b>Supply Voltage</b>	110/240V 50/60Hz										
<b>Maximum Wattage</b>	1000W										
<b>Lamp/Socket Type</b>	Fitted with medium two pin (G9) lampholder to take lamps of 2 <sup>3</sup> / <sub>8</sub> " light center length as listed below. <table> <tr> <td>FEL</td><td>1000W</td></tr> <tr> <td>EHC/EHB, EHD</td><td>500W</td></tr> <tr> <td>EHF, EHG</td><td>750W</td></tr> <tr> <td>FKR (220/240V)</td><td>650W</td></tr> <tr> <td>CP77 (220/240V)</td><td>1000W</td></tr> </table>	FEL	1000W	EHC/EHB, EHD	500W	EHF, EHG	750W	FKR (220/240V)	650W	CP77 (220/240V)	1000W
FEL	1000W										
EHC/EHB, EHD	500W										
EHF, EHG	750W										
FKR (220/240V)	650W										
CP77 (220/240V)	1000W										
<b>Supply Cable</b>	3 x 3ft SF2 leads in glass fiber sleeve which is strain relieved in rear plastic handle.										
<b>Maximum Ambient Temperature</b>	115°F (45°C)										
<b>Maximum Surface Temperature</b>	470°F (245°C)										
<b>Operating Angles</b>	+90° 0 -90°										
<b>Standards</b>	UL and CSA										

## Terminology

### Definitions:

#### PEAKY DISTRIBUTION

Adjusted for maximum peak intensity and low cut-off intensity, ( $1/10$  th peak angle is therefore used with  $1/2$  peak angle to define beam distribution).

#### COSINE DISTRIBUTION

Adjusted for  $1/2$  peak intensity at  $2/3$  beam angle and sharp cut-off (Cut-off angle is therefore used with  $1/2$  peak angle to define beam distribution).

#### CUT-OFF ANGLE -

Total Beam Diameter.

#### $1/10$ th PEAK ANGLE -

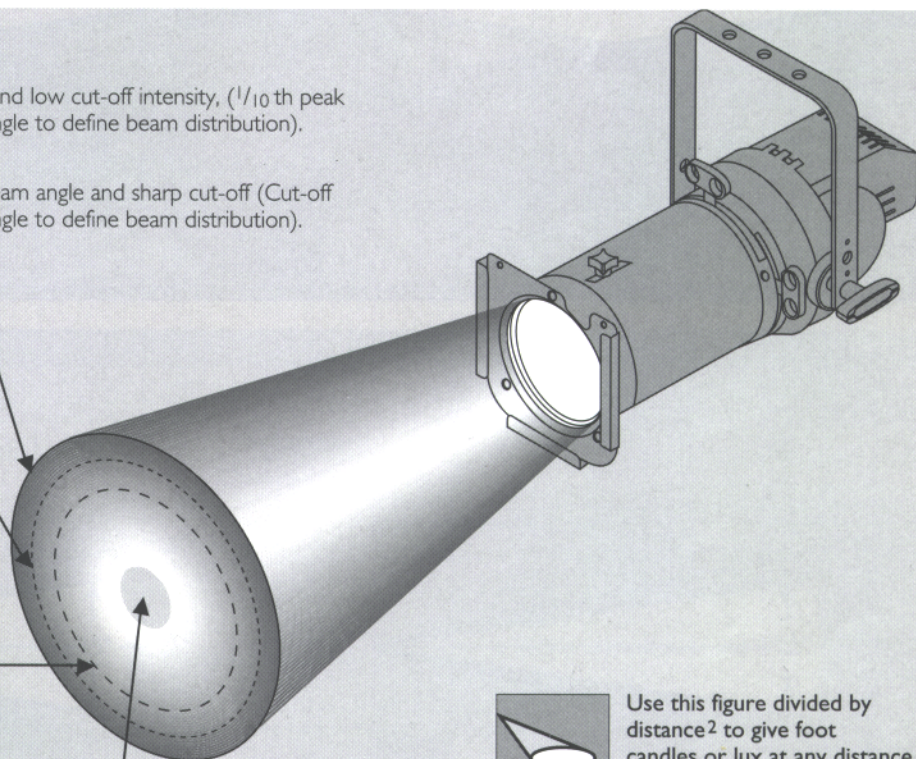
Where intensity drops to  $1/10$  th Peak (center) intensity.

#### $1/2$ PEAK ANGLE -

Where intensity drops to  $1/2$  Peak (center) intensity.

#### PEAK INTENSITY -

Brightest point in beam – normally an optical axis.



Use this figure divided by distance<sup>2</sup> to give foot candles or lux at any distance



Use this figure multiplied by distance<sup>2</sup> to give beam diameter at any distance.

## Ordering Information

Leko fixtures are all supplied complete with C-Clamp.

Model	Old Leko Equivalent	Order Code
Leko - 15°	6" x 12"	2215
Leko - 20°	6" x 16"	2220
Leko - 30°	16" x 12"	2230
Leko - 40°	6" x 9"	2240
Leko - 50°	4 1/2" x 6 1/2"	2250

Accessories	Order Code
Color Frame 7 1/2" x 7 1/2"	1108
High Hat	1332
Pattern Holder for "B" patterns	1342
Set of 6 "B" patterns	1352
Drop in Iris diaphragm	1361
Safety Cable	1500

Lamp (ANSI Code)	Watts	Life	Colour Temp °K	MF
FEL	1000	300	3200	1.0
EHC/EHB	500	200	3200	.47
EHD	500	2000	3000	.36
EHF	750	300	3200	.73
EHG	750	2000	3000	.54
FKR 220/240V	650	300	3100	.55
CP77 220/240V	1000	300	3200	.85

The company reserves the right to make any variation in design or construction to the equipment described.  
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Strand Lighting is a company within the Film and Television Division of The Rank Organisation, United Kingdom



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