



High Bay Luminaires



General : Luminaires for High-bay and Medium-bay applications, high performance, selectable on (i) lamp type - HPMV or HPSV or MH, (ii) lamp rating - 150W or 250W or 400W, (iii) light distribution - narrow or wide beam, (iii) reflector performance / material - aluminium or prismatic and (iv) reflecting surface / lamp-open or enclosed, to suit the application requirements in respect of illuminance, uniformity ratio of illuminance, mounting height, need for upward illumination (prismatic reflector), spacing between luminaires, protection against environmental pollution, safety as recommended by lamp manufacturer. Details in the tabulation below furnish guidance on the combinations.

Integral with all control gear components mounted and prewired with heat resistant cables of required voltage class of insulation up to terminal connector for incoming supply, besides terminal for earthing, for operation in 240V, 50 Hz, ac single phase supply.

Control Gears : Control gears, consisting energy efficient open type copper wound electromagnetic ballast with high accuracy on current settings and super imposed ignitor (for HPSV and MH), as required ensuring compatibility to type and rating of the lamp besides power factor improvement capacitor suitable for use with gas discharge lamps, etc. assembled in a powder coated, aesthetically contoured, light weight, pressure die cast aluminium housing with fins for improved cooling, in two hinged halves, with spring loaded latch to keep both the halves in closed position to enable easy examination without the need for tools. The control gears are mounted on either side of hinged plate inside the housing for easy accessibility. Provided with porcelain screw type holder of designation E40 with spring loaded contacts.

Reflectors : Selectable for either narrow or wide beam in aluminium reflector besides prismatic reflector, depending on application. Spun aluminium reflector, highly polished, brightened, anodised in two different contours to meet the applications of wide and narrow beams. Prismatic reflector in closed version in case of need for (i) upward besides downward illumination, (ii) glare free illumination and (iii) decorative appearance. For improved performance in polluted atmosphere and for safety against possible shattering of discharge tube in MH lamp, closed version with heat resistant and toughened glass cover fitted to the reflector with EPR gasket, with safety chain.

Mounting : Mounting by suspension through eye bolt provided therefor on top of the control gear housing, with rubber bush, helping in damping vibrations. Cable gland for insulated and sheathed

Protection and Safety : Degree of protection against ingress of dust and moisture: IP 20 for open version and IP 55 for closed version. Safety against electric shock: Class I [IS: 10322 (Part-1) - 1982] Closed version of luminaires offer safety with metal halide against possible shattering of discharge tube in MH lamp.

Applications : Heavy engineering industries, rolling mills, Power plants, steel plants, aircraft hangers, shopping malls, etc. by suitably selection in respect of lamp type, lamp rating, narrow or wide beam reflector, open or closed version, aluminium or prismatic reflector etc.



ID	Lamp	Reflector	Light Distribution	Version	Recommended Height	Dimensional Drg.
3110	250W HPMV	Spun Alu.	Wide Beam	Open	5 - 8 M	Fig. 1
3111	150W HPSV	Spun Alu.	Wide Beam	Open	5 - 8 M	Fig. 1
3112	250W HPSV	Spun Alu.	Wide Beam	Open	5 - 8 M	Fig. 1
3115	250W HPMV	Spun Alu.	Wide Beam	Closed	5 - 8 M	Fig. 2
3116	150W HPSV	Spun Alu.	Wide Beam	Closed	5 - 8 M	Fig. 2
3117	250W HPSV	Spun Alu.	Wide Beam	Closed	5 - 8 M	Fig. 2
3118	250W MH	Spun Alu.	Wide Beam	Closed	5 - 8 M	Fig. 2
3122	250W HPMV	Spun Alu.	Narrow Beam	Open	Above 8 M	Fig. 3
3123	400W HPMV	Spun Alu.	Narrow Beam	Open	Above 8 M	Fig. 3
3124	150W HPSV	Spun Alu.	Narrow Beam	Open	Above 8 M	Fig. 3
3125	250W HPSV	Spun Alu.	Narrow Beam	Open	Above 8 M	Fig. 3
3126	400W HPSV	Spun Alu.	Narrow Beam	Open	Above 8 M	Fig. 3
3128	250W HPMV	Spun Alu.	Narrow Beam	Closed	Above 8 M	Fig. 4
3129	400W HPMV	Spun Alu.	Narrow Beam	Closed	Above 8 M	Fig. 4
3130	150W HPSV	Spun Alu.	Narrow Beam	Closed	Above 8 M	Fig. 4
3131	250W HPSV	Spun Alu.	Narrow Beam	Closed	Above 8 M	Fig. 4
3132	400W HPSV	Spun Alu.	Narrow Beam	Closed	Above 8 M	Fig. 4
3135	250W MH	Spun Alu.	Narrow Beam	Closed	Above 8 M	Fig. 4
3136	400W MH	Spun Alu.	Narrow Beam	Closed	Above 8 M	Fig. 4
3137	150W HPSV	Prismatic	Upward illumination & Low Glare	Closed	To suit application	Fig. 5
3139	250W HPSV	Prismatic		Closed	To suit application	Fig. 5
3141	250W HPMV	Prismatic		Closed	To suit application	Fig. 5
3127	400W HPSV	Prismatic		Closed	To suit application	Fig. 6
3133	400W MH	Prismatic		Closed	To suit application	Fig. 6

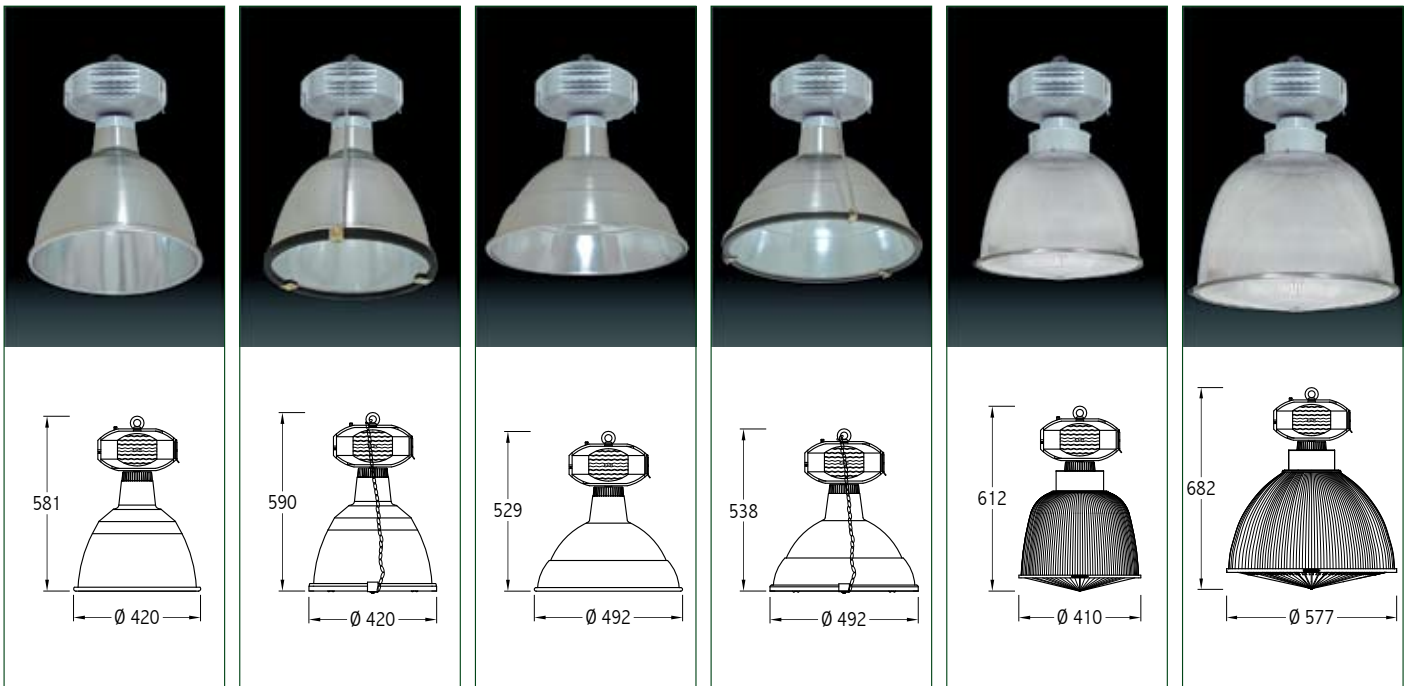


Fig 1

Fig 2

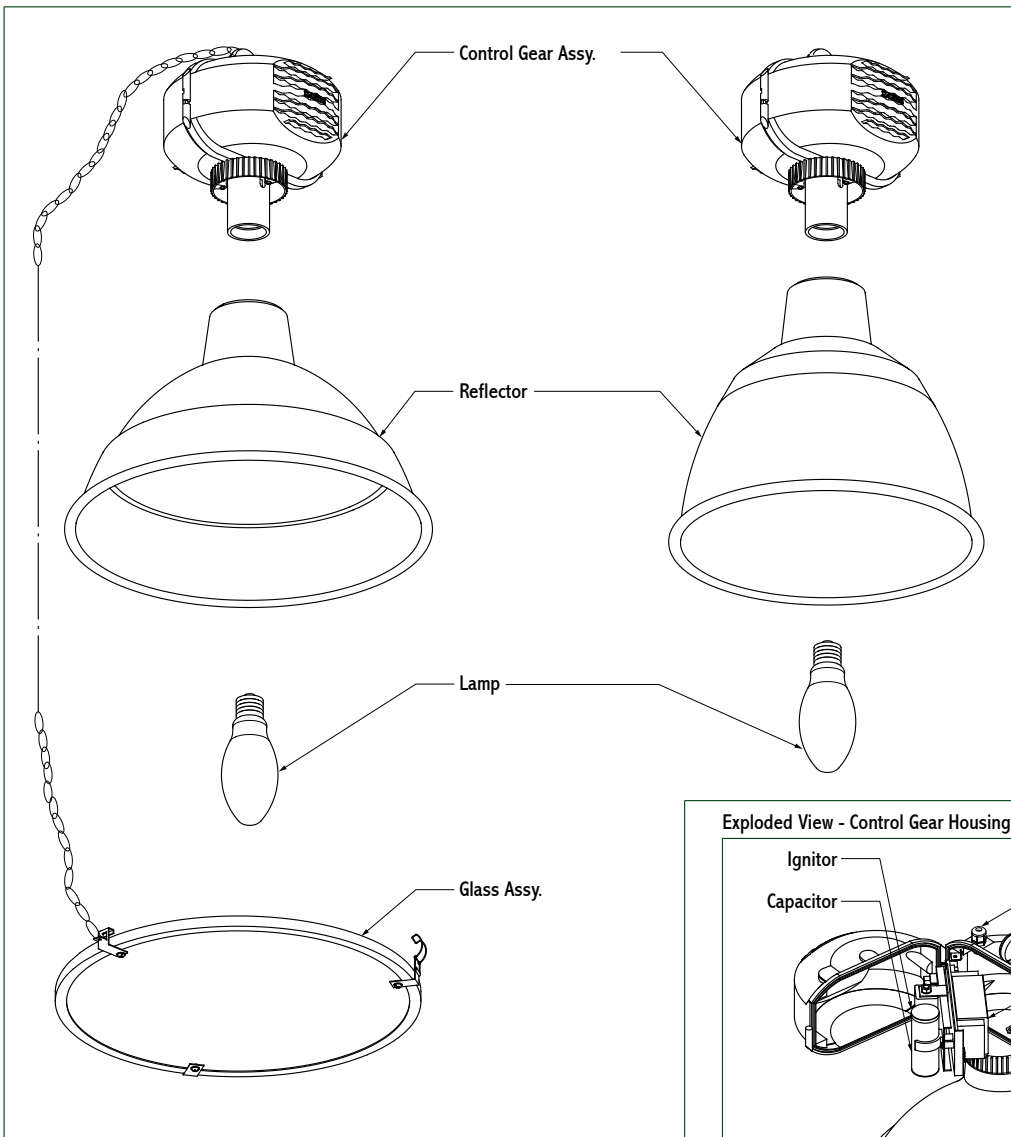
Fig 3

Fig 4

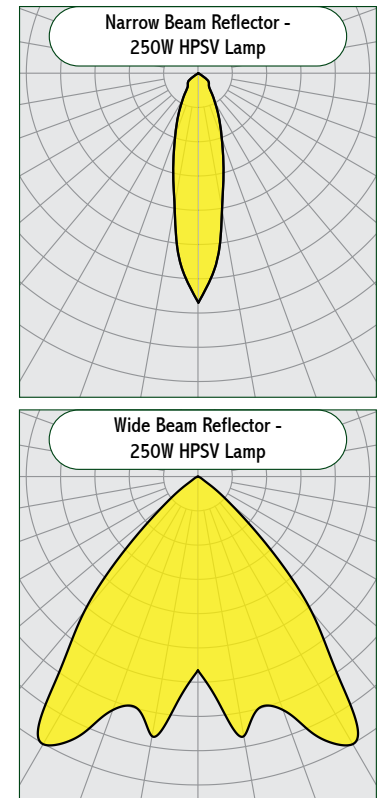
Fig 5

Fig 6

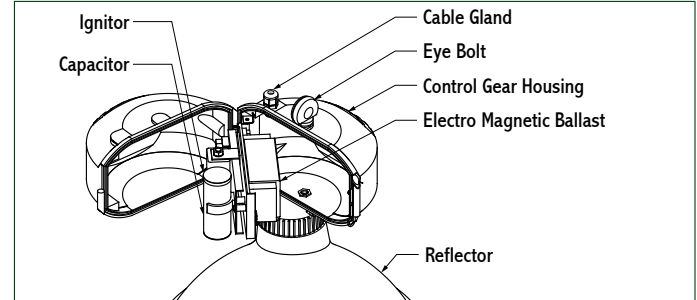
Exploded View



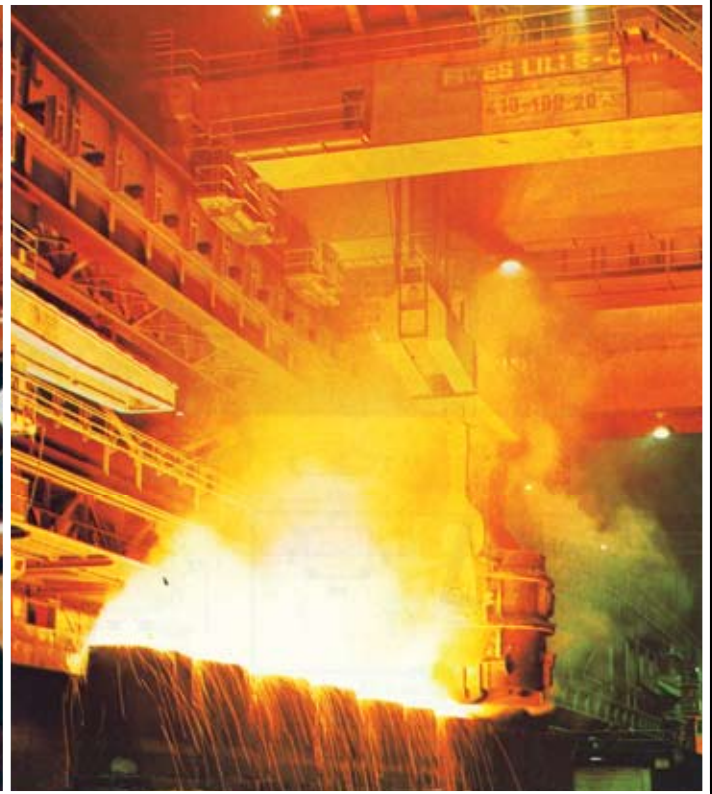
Intensity Distribution Curve (Typical)



Exploded View - Control Gear Housing



Note : All dimensions are in mm. Tolerance ± 5 mm.



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