

## Lantern Configurations – 5 Metre Columns

### Summary Of Results For BS 5649

Lantern Weight/windage	`k' factor	Max allowable outreach
8kg / 0.1m <sup>2</sup>	1.8	1.5m
	2.2	1.5m
	3.0	1.0m
8kg / 0.2m <sup>2</sup>	1.8	1.25m
	2.2	0.75m
	3.0	0.3m
8kg / 0.3m <sup>2</sup>	1.8	0.75m
	2.2	0.3m
	3.0	

### Summary Of Results For EN 40 / PD6547

Lantern Weight/windage	`RWF	Max allowable outreach
8kg / 0.1m <sup>2</sup>	Light	1.5m
	Medium	1.5m
	Heavy	1.5m
	Extra Heavy	1.5m
8kg / 0.2m <sup>2</sup>	Light	1.5m
	Medium	1.5m
	Heavy	1.25m
	Extra Heavy	0.75m
8kg / 0.3m <sup>2</sup>	Light	1.0m
	Medium	1.0m
	Heavy	0.75m
	Extra Heavy	0.3m

The calculations above have been carried out for a range of various parameters i.e. lantern windage, `k' factor (for BS 5649), Rationalized Wind Factor (for EN 40), to determine an allowable bracket outreach. For calculation purposes, we have also assumed a lantern weight of 8kg, and nominal luminaire height is 6 metres from ground level.

Please note additional items such as signs, hanging baskets, CCTV brackets etc... may have an implication on the structural integrity of the column. Any doubts, please contact us for confirmation.