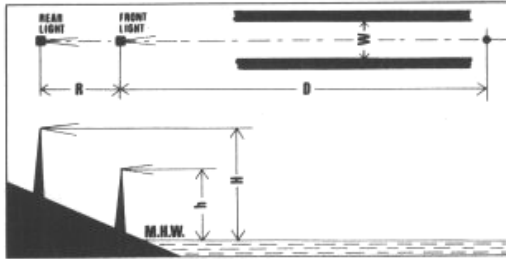


LUMINOUS INTENSITY & RANGE

CALCULATIONS FOR TYPICAL LEADING OR TRANSIT LIGHT*



Values of K	Sensitivity rating	Comment
Under 1	Poor	Not acceptable
1.0-1.5	Fair	Just workable
1.5-2.5	Good	Generally effective
2.5-3.5	Very good	Best results
3.5-4.5	Excellent	May be too sensitive for certain situations

To find H and R

$$H = \frac{D}{650} + h \quad R = \frac{KD(H-h)}{W}$$

Note: sensitivity increases as the observer draws nearer to the lights. Therefore, the selected value for K should generally be 1.5 to avoid problems from over-sensitivity as close range. Geographical range and obstructions should be taken into account when selecting h.

- where H = height of rear light above M.H.W.
- h = height of front light above M.H.W.
- D = distance from front light to limit of useful range
- R = distance from front to rear light
- W = width of channel
- K = coefficient of lateral sensitivity (optimum 2.5)

ATMOSPHERIC TRANSMISSIVITY (T) * For point source lights

