

LIGHTING CALCULATIONS: LUMEN METHOD SOLVING FOR LUMINAIRES

$$N = \frac{E \times L \times W}{n \times \Phi \times uf \times mf}$$

N	=	NUMBER OF LIGHTING FIXTURES
n	=	NUMBER OF LAMPS IN 1 LIGHTING FIXTURE
E	=	REQUIRED ILLUMINANCE (LUX OR LM/M ²)
L	=	ROOM LENGTH (M)
W	=	ROOM WIDTH (M)
Φ	=	FLUX PER 1 LAMP (LM)
uf	=	USAGE (UTILIZATION) FACTOR
mf	=	MAINTENANCE FACTOR