



The Maintenance Factor will be calculated in accordance with the following formula and tables;

$MF = LLMF \times LEF \times LODV \times LODR \times LODL \times LMF$, where;

MF = Maintenance Factor (in this case for a nominal 20 year economic life)

LLMF = Lamp Lumen Maintenance Factor [from the luminaire supplier – using the DOE TM21-11 calculator, LM80 chip data and ISTMT in-luminaire LED temperature, for 85,000 hours at 25C ambient]

LEF = Luminaire Electronic (Failure) Factor [Normally set at 0.99]

LODV = Luminaire Optical Depreciation Factor for Visor [per Table T1]

LODR = Luminaire Optical Depreciation Factor for Reflector [per Table T2]

LODL = Luminaire Optical Depreciation Factor for Lens [per Table T3]

LMF = Luminaire Maintenance Factor [Set at 0.92 if there is a Visor or 0.78 if there is no Visor]

MATERIAL	LODV factor
No Visor	1.00
Glass	1.00
Silicone	1.00
PMMA	0.91
PC	0.69

Table 1. LODV (Visor) factor

MATERIAL	LODR factor
No reflector	1.00
Aluminium (behind glass or PMMA or PC visor)	0.99
Metallised or coloured PC (behind Glass visor)	0.97
Metallised or coloured PC (behind PMMA or PC visor)	0.96

Table 2. LODR (Reflector) factor





MATERIAL	LODL factor
No lens	1.00
Glass or Silicone (exposed)	1.00
Glass or Silicone (behind Glass, PMMA or PC visor)	1.00
PMMA (exposed)	0.91
PMMA (behind Glass visor)	0.99
PMMA (behind PMMA or PC visor)	0.99
PC (exposed)	0.69
PC (behind Glass visor)	0.97
PC (behind PMMA or PC visor)	0.96

Table 3. LODL (Lens) factor

