

INSTRUCTIONS FOR ADJUSTING LUMENS FOR OTHER CCTs AND CRIs

CONCEPT AND SAMPLE CALCULATION

The IES file and LM-79 reports provided are for Very High Output (V), 80 CRI, 3500K CCT luminaires.

Use the Lumen Adjustment Factors below to calculate lumen output for the desired CCT and CRI.

CRI	CCT	Lumen Adjustment Factor
80	3000K	0.985
80	3500K	1.000
80	4000K	1.032
90	3000K	0.746
90	3500K	0.760
90	4000K	0.789

Formula to adjust lumen output from 80 CRI-3500K to 90CRI-3000K:

Lumen Adjustment Factor_(90 CRI-3000K) = 0.746

Total Light Output_(90 CRI-3000K) = Total Light Output_(80 CRI - 3500K) × Lumen Adjustment Factor_(90 CRI-3000K)

USING LUMEN ADJUSTMENT FACTORS IN AGI

When using the AGI software package, the Lumen Adjustment Factor is entered into the **User Defined Factor (UDF)** cell:

Specify Light Loss Factor			
Description	Abb.	Factor	
Lamp Lumen Depreciation	LLD	..	
Luminaire Dirt Depreciation	LDD	..	
Ballast Factor	BF	..	
Luminaire Ambient Temperature Factor	LATF	..	
Room Surface Dirt Depreciation	RSDD	..	
Luminaire Surface Depreciation	LSD	..	
Lamp Burnout Factor	LBD	..	
Voltage-To-Luminaire Factor	VTLF	..	
Ballast-Lamp Photometric Factor	BLPF	..	
Heat Extraction Thermal Factor	HETF	..	
Equipment Operating Factor	EOF	..	
User Defined Factor	UDF	..	
Total Light Loss Factor	LLF	1.000	

Enter Lumen Adjustment Factor here

USING LUMEN ADJUSTMENT FACTORS IN VISUAL USER

When using the Visual User software package, the Lumen Adjustment Factor is entered into the **Other** cell:

Step 4 – Miscellaneous Factors

Other Factors	Results
Lamp Burnout Factor	LLD 1.00
Room Surface Dirt Depreciation Factor	LDD 1.00
Luminaire Ambient Temperature Factor	Ballast 1.00
Heat Extraction Thermal Factor	Other 1.00
Voltage-to-Luminaire Factor	
Ballast-Lamp Photometric Factor	
Equipment Operating Factor	
Lamp Position Factor	
	Total LLF 1.00

1. Enter the values for any of the factors listed under the Other Factors Header. The multiplication of these factors will be entered in the Other text box under the Results Header. The total LLF is listed at the bottom of the calculator.
2. Select FINISH to close the **Light Loss Factor Calculator**. The calculated LLF will be entered in the LLF text box in the **Lumen Method Tool**.