

## SCALING THE LUMEN OUTPUT DOWNLIGHT PHOTOMETRY

### 50° wide reflector - LSQ Series Luminous Tubes

Photometric test performed with a DNL-2LM-W

Downlight test with a 1724 delivered lumens LED source

The photometric file will work for the LSQ5 and LSQ8 tubes with the optional downlight as the LED configuration and reflectors are identical.

When absolute photometry (usually LED products) became prominent, like most of the software world, AGI and other programs were not ready to handle them. However, probably the most common way to handle this in AGI is for the user to modify the .ies file.

The testing lab Lumos uses, ITL Boulder produced the ies file which has lines that look like this:

```
[_ABSOLUTELUMENS] 1724  
TILT=NONE  
1 -1 1 37 5 1 1 -0.208333 -0.208333 0.000000  
1 1 16.7
```

Instruct the user to replace the “-1” value with the absolute lumens 1724. Then from there the user can scale the 1724 lumens up or down as necessary.

CAT NO.	Delivered Lumens	Scaling Multiplier	Wattage
DNL-1LM	1,114	0.65	11
DNL-2LM	1,724	1.00	17
DNL-3LM	3,011	1.75	30
DNL-4LM	3,971	2.30	39
DNL-5LM	5,126	2.97	50