

EGL NEON NEWS

NEWS AND INFORMATION FOR THE SIGN INDUSTRY

Spring 2006

EGL C.L. Designer® White vs. White LEDs

White is the most common light source used to illuminate channel letters. EGL took white LED channel letter module systems from two of the leading manufacturers and performed a direct comparison with EGL C.L. Designer® 71 white neon tubing powered with an electronic 30mA power supply.

9 ft. of double stroke tubing or LEDs were used in 10" wide channels, making the test a true representation of a real life channel letter. The LED systems were installed according to the manufacturers' instructions and were powered by the recommended power supplies. We found that in all areas - **BRIGHTNESS, EFFICIENCY, COST** - the neon outperformed the LEDs in overwhelming fashion!



15mm EGL C.L. Designer® 71 with
Ventex 4030CL power supply

Sloan Great White LED

Permlight PZ White LED

Surface Brightness - We all know that sign brightness is absolutely critical in attracting attention to a business or highlighting corporate identity. EGL C.L. Designer® white was 166% brighter than the Sloan Great White system and almost 300% brighter than Permlight's PZ system. (All measurements taken at acrylic surface.)

Power Consumption & Current Draw - EGL C.L. Designer® 71 proved to be by far the most efficient at converting power to useful light - 3 times more efficient than Permlight's PZ White and almost 4.5 times more efficient than Sloan's Great White. In addition, the EGL product in conjunction with the high power factor electronic transformer only drew 0.21A of primary current, compared with 0.38A and 0.54A for the Permlight and Sloan systems respectively.

Cost - If the superior brightness and low power consumption of EGL C.L. Designer® Series are not compelling enough reasons to make them the obvious choice for channel letter illumination, compare material and fabrication expenses. When transformer and light source costs are considered, the Permlight system is double the cost of neon, and the Sloan system is over 4 times more expensive. Put another way, you get over 7 times more light per "up front" dollar spent from the neon than from either of the LED systems.

	Brightness (lux)*	Current Draw	Power Consumed	Efficiency (lux/W)	Watts/ft	Cost Trans + source	"Light per \$"
EGL C.L. Designer® 71	1532	0.21A	23W	66.6	2.6	\$50 + \$50 = \$100	15.3
Sloan Great White LED	919	0.54A	61W	15.1	6.8	\$58 + \$375 = \$432	2.1
Permlight PZ White	520	0.38A	24W	22.7	2.7	\$62 + 143 = \$205	2.5

* Measured at acrylic surface with a Lutron LX-103 Light Meter
Summary of test results. Total tubing/LED run length = 9ft; stroke width = 10"; Channel Depth = 5"
For more information regarding these products and the entire EGL product line please visit us at
www.egl-neon.com, call (908) 508-1111, or email us at sales@egl-neon.com.

