

"RARE EARTH" NEON TUBING

FOR CHANNEL LETTERS AND SIGNAGE REQUIRING SUPER-BRIGHT WHITES AND BRILLIANT COLORS, SPECIFY THE C.L. DESIGNER® SERIES

UP TO 300% BRIGHTER THAN CONVENTIONAL NEON, PLUS GREATER OUTPUT STABILITY AND STAIN RESISTANCE

This newest generation of neon tubing from EGL is an outcome of recent advances in television screen technology that utilize the brilliant picture quality you enjoy today.

Research revealed that rare-earth chemicals incorporated in phosphor coatings emit extremely narrow bandwidths of light (significant because the narrower the bandwidth, the brighter, purer, and more vivid the light emission - the wider the bandwidth, the dimmer and more washed-out.)

Rare-earth phosphors were also found to maintain their purity and high output levels far longer than conventional phosphors, offering superior performance on all counts.

EGL has combined the latest in rare-earth phosphor technology with over 70 years of experience

in neon tube making to create an entirely new generation of ultra-high performance neon tubing - C.L. Designer® series. Available in a range of nine whites and six colors, C.L. Designer® tubing is the ideal alternative to conventional neon for channel letter applications for major reasons:

- 25 to 300 percent higher output significantly boosts the brilliance and visibility of all rigid and vinyl plastic channel letter fascia colors - including blues and greens that were previously difficult to illuminate. Higher output can also allow the number of tubing runs to be reduced, cutting material and labor costs significantly.

- Superior color purity and accuracy enable channel letters to match corporate color schemes with unmatched precision and consistency.

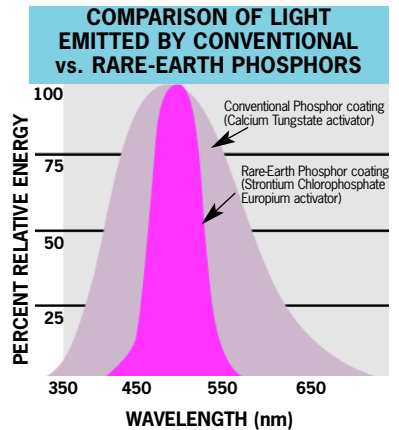
- Enhanced color stability and resistance to staining and output depreciation keep channel letters looking brighter and more colorful significantly longer than letters containing conventional neon tubing.

- Super-bright C.L. Designer® color tubing boosts the vividness and intensity of colored plastic fascias for far beyond that of conventional white tubing.

- Blending of three rare-earth phosphors to produce each brilliant shade of white creates a range of cool-to-warm variants, allowing fine tuning of the illuminated plastic fascia colors to match corporate color schemes precisely.

While the outstanding properties of C.L. Designer® tubing make it particularly suitable for channel letter applications, it is equally desirable for open neon signage and architectural lighting requiring super-bright whites, brilliant colors, and long term color accuracy. It processes as easily as conventional phosphor-coated tubing and is available in 7, 8, 9, 10, 11, 12, 13, 15, and 18mm diameters.

For best results use EGL Advantage™ Electrodes and EGL 99.999% pure gases.



The rare-earth phosphor emits a narrower band of wavelengths, and therefore a purer, more vivid color than the conventional phosphor.

Whites available:

- C.L. Designer® 24
- C.L. Designer® 28
- C.L. Designer® 30
- C.L. Designer® 35
- C.L. Designer® 41
- C.L. Designer® 45
- C.L. Designer® 65
- C.L. Designer® 71
- C.L. Designer® 83

Rare-Earths available:

- Horizon Blue
- Tropic Green
- Coral Pink
- Seacrest
- Violet II
- Flamingo



Channel letters illuminated with C.L. Designer® tubing (right) produce significantly more light and truer whites than conventional tubing (left) which emits a bluish cast and alters the color of the plastic fascia.



C.L. Designer® tubing (right) is so bright, single runs can often be used instead of double runs of conventional white tubing (left), saving material and labor costs while eliminating the bluish cast of conventional white tubing.



Using colored rare-earth tubing behind colored plastic fascias produces signage that is not only brighter but more vivid and pure than signage illuminated with conventional white tubing. Compare identical blue plastic fascia colors illuminated by conventional white tubing (left) and EGL's Horizon Blue (right).



Identical green plastic fascias illuminated by EGL's rare-earth Tropic Green neon tubing (right) are significantly brighter and more vivid than fascias illuminated by conventional white tubing (left).

C.L. DESIGNER® SERIES SPECIFICATIONS

C.L. DESIGNER® SELECTION GUIDE					
PLASTIC COLOR	ROHM & HASS COLOR #	CYRO COLOR #	CONVENTIONAL COLOR	C.L. DESIGNER®/ RARE EARTH COLOR	ADVANTAGES OF C.L. DESIGNER®/RARE EARTH
White	7328	015-2	6500 Snowwhite	C.L. Designer® 71 or 83	60% Brighter
Blue	2114	605-0	6500 Snowwhite or E-40 Blue	Horizon Blue	125% Brighter than 6500;
Blue	2050	606-0	6500 Snowwhite or E-40 Blue	Horizon Blue	25% brighter than E-40 w/enhanced color stability
Green	2108	507-0	6500 Snowwhite or E-10 Green	Tropic Green	150% Brighter than 6500;
Green	2030	506-0	6500 Snowwhite or E-10 Green	Tropic Green	35% brighter than E-40 w/enhanced color stability
Yellow	2037	407-2	3500, 4500 White or 6500 Snowwhite	C.L. Designer® 28 or 65	300% Brighter than 6500;
Orange	2119	303-0	6500 Snowwhite	Coral Pink	25% brighter than E-10 w/enhanced color stability
Ivory	2146	047-2	6500 Snowwhite	C.L. Designer® 28, 35, or 65	150% Brighter than 6500;
Black/White	3063	1124-1	6500 Snowwhite	C.L. Designer® 71 or 83	90% Brighter
Red	2793	278-0	Clear Red	None	300% Brighter than 6500
Red	2157	205-0	Clear Red	None	60% Brighter
					35% Brighter
					Recommend Clear Red
					Recommend Clear Red

C.L. DESIGNER® LIGHT OUTPUT (LUMENS PER FOOT)									
TUBING COLOR	DEGREES KELVIN	12MM		15MM		20MM		25MM	
		30mA	30mA	60mA	60mA	120mA	60mA	120mA	
		C.L. Designer® 24	2400°	235	200	375	300	520	235
C.L. Designer® 28	2800°	250	210	400	320	550	250	480	
C.L. Designer® 30	3000°	260	220	410	360	700	260	460	
C.L. Designer® 35	3500°	250	210	400	280	560	200	410	
C.L. Designer® 41	4100°	240	200	380	295	540	200	400	
C.L. Designer® 45	4500°	240	200	380	300	560	210	415	
C.L. Designer® 65	6500°	240	200	390	340	640	250	470	
C.L. Designer® 71	7100°	245	205	395	345	650	255	480	
C.L. Designer® 83	8300°	245	205	395	345	650	255	480	
Coral Pink	NA	170	130	270					
Flamingo	NA	125	100	200					
Violet II	NA	65	50	100					
Horizon Blue	NA	100	80	170	150	300	130	210	
Tropic Green	NA	270	240	420					
Seacrest	NA	190	150	290					

RARE-EARTH COLORED TUBING			
EGL COLOR	DESCRIPTION	DIAMETER (MM)	PART NUMBER
Coral Pink	High Lumen Output/Color Rendition/Stability	10	329010
		12	329012
		13	329013
		15	329015
		18	329018
Flamingo	High Lumen Output/Color Rendition/Stability	10	300010
		12	300012
		13	300013
		15	300015
		18	300018
Violet II	High Lumen Output/Color Rendition/Stability	10	306510
		11	306511
		12	306512
		13	306513
		15	306515
Horizon Blue	High Lumen Output/Color Rendition/Stability	10	341010
		12	341012
		13	341013
		15	341015
		18	341018
Tropic Green	High Lumen Output/Color Rendition/Stability	10	307010
		12	307012
		13	307013
		15	307015
		18	307018
Seacrest	High Lumen Output/Color Rendition/Stability	10	301010
		12	301012
		13	301013
		15	301015
		18	301018

C.L. DESIGNER® WHITE TUBING			
EGL COLOR	DESCRIPTION	DIAMETER (MM)	PART NUMBER
C.L. Designer® 24	High Lumen Output/Color Rendition/Stability	10	331510
		12	331512
		13	331513
		15	331515
		18	331518
C.L. Designer® 28	High Lumen Output/Color Rendition/Stability	10	332510
		12	332512
		13	332513
		15	332515
		18	332518
C.L. Designer® 30	High Lumen Output/Color Rendition/Stability	10	332710
		11	332711
		12	332712
		13	332713
		15	332715
C.L. Designer® 35	High Lumen Output/Color Rendition/Stability	10	332910
		12	332912
		13	332913
		15	332915
		18	332918
C.L. Designer® 41	High Lumen Output/Color Rendition/Stability	10	333210
		12	333212
		13	333213
		15	333215
		18	333218
C.L. Designer® 45	High Lumen Output/Color Rendition/Stability	10	333610
		12	333612
		13	333613
		15	333615
		18	333618
C.L. Designer® 65	High Lumen Output/Color Rendition/Stability	10	333410
		12	333412
		13	333413
		15	333415
		18	333418
C.L. Designer® 71	High Lumen Output/Color Rendition/Stability	10	333810
		12	333812
		13	333813
		15	333815
		18	333818
C.L. Designer® 83	High Lumen Output/Color Rendition/Stability	10	334310
		12	334312
		13	334313
		15	334315
		18	334318

All C.L. Designer® Whites and Rare-Earth tubing selections are also available in 7, 8, & 9mm. Part numbers not shown.

All C.L. Designer® Whites and Rare-Earth tubing selections will produce brighter, more intense colors than the conventional selections.

ALL TUBING FOUR FOOT, LEAD GLASS

***5' lengths also available by special order. Call for details.