



Title:
Light Level Density
Test Inside Three
Phase Cabinet

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080805

Engineering Test Report

Purpose:

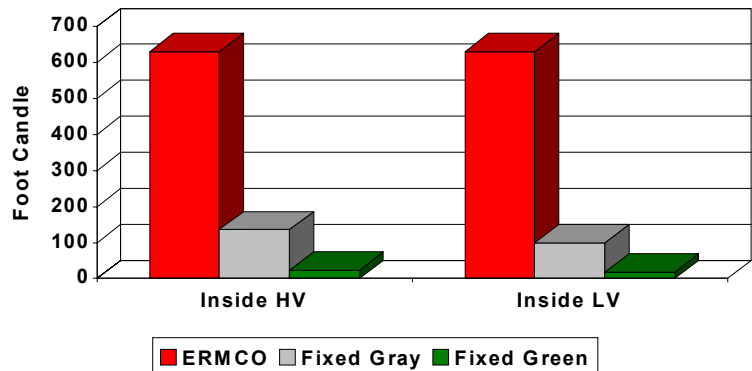
The purpose of this test was to compare the light level density inside a 3-phase padmounted transformer cabinet that was painted gray versus green, and versus a green ERMCO 3-phase with the side doors open.

Conclusion:

1 – The light level density inside an ERMCO standard green 3-phase padmounted transformer with cabinet side and top opened is approximately twenty-six (26) times brighter than the traditional cabinet with fixed sides painted green.

2 – The light level density inside an ERMCO standard green 3-phase padmounted transformer with cabinet side and top opened is approximately five (5) times brighter than the traditional cabinet with fixed sides painted gray.

3-Phase Pad Transformer Light Density Results



Procedure:

A total of three tests were conducted:

- 1 – Light level density inside the cabinet of an ERMCO standard 3-phase padmounted transformer with standard side doors. The unit was painted green ANSI Munsell 7GY 3.29/1.5.
- 2 – Light level density inside the cabinet of an ERMCO 3-phase padmounted transformer with traditional fixed side cabinet. The unit was painted green ANSI Munsell 7GY 3.29/1.5.
- 3 – Light level density inside the cabinet of an ERMCO 3-phase padmounted transformer with traditional fixed side cabinet. The unit was painted gray ANSI Munsell 5BG 7.0/0.4.

A digital light meter (Meterman model # LM631) was used to measure the light density.

The units were placed outdoor in the same direction and the cabinet doors were opened as normal operation to conduct the test.



Results: (see chart on front page)

	<u>Light density in foot-candle</u>	
	<u>Inside HV Cabinet</u>	<u>Inside LV Cabinet</u>
ERMCO Standard Unit w/ Side Doors Painted Green	630	630
Traditional Fixed Side Cabinet Painted Green	24	18
Traditional Fixed Side Cabinet Painted Gray	136	100

Test witnessed by Alan Wilks, Roger Stegeman & Ali Ghafourian.