



VIVID ENERGIES

LED Lighting Solutions For Our Future And Your Bottom Line



Type:
Project:
Description:

LED

T8 LED Double Ended Bypass Lamp



Up To
172
Lumens Per Watt

L90 at 54,000 hours
Solid Pins = Robust Connection

FEATURES

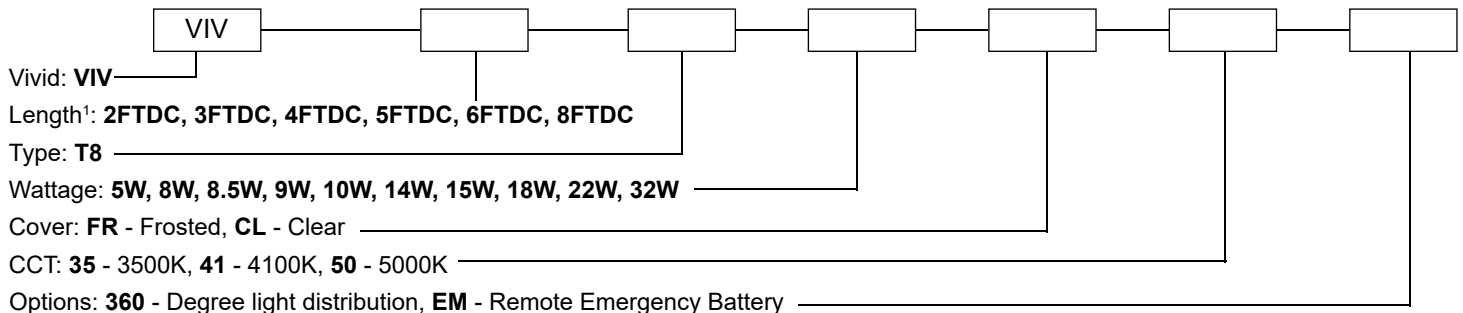
- 180 degree light distribution
- Aviation aluminum heatsink
- Solid pins ensure best performance (*Market standard is hollow pins*)
- Power factor >0.90 (*Market standard of 0.87*)
- Driver capacitor lifespan predicted at 100,000 hours and tested in both high and low humidity conditions (*Market Standard is 50,000 hours*)

SPECIFICATIONS

Model Number	Nominal Length	Wattage	CRI	Efficacy (LPW)	Power Factor	Dimming
VIV	2'	5W, 8.5W, 9W	83-84	169-172	>0.9	None
	3'	8W, 9W				
	4'	10W, 15W, 18W, 22W				
	5'	14W				
	6'	18W				
	8'	32W				

ORDERING GUIDE

Sample Number: VIV-4FTDC-T8-10W-FR-35-360



¹ See specifications table for length and wattage options



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LM-79-08 Test Report Data

TEST SUMMARY

Sample Tested: VIV-4FT-T8-10W-F (4000K)

Luminous Efficacy (Lumens /Watt)	Total Luminous Flux (Lumens)	Power (Watts)	Power Factor
171.6	1740.0	10.14	0.9401
CCT (K)	CRI	Stabilization Time (Light & Power)	
3867	83.0	60	

Table 1: Executive Data Summary

Note: The above results are recorded/ derived from measurements made using an Integrating Sphere.

Test specifications:

Date of Receipt : Mar. 02, 2020
Date of Test : Mar. 02, 2020

TM-21 Calculator Report Data

TM-21 Report

Table 1: Report at each LM-80 Test Condition

Vivid Energies VIV-4FT-T8-10W-35K			
Test Condition 1 - 85°C Case Temp		Test Condition 2 - 115°C Case Temp	
Sample size	25	Sample size	25
Number of failures	0	Number of failures	0
DUT drive current used in the test (mA)	150	DUT drive current used in the test (mA)	150
Test duration (hours)	9,000	Test duration (hours)	9,000
Test duration used for projection (hour to hour)	4,000 - 9,000	Test duration used for projection (hour to hour)	4,000 - 9,000
Tested case temperature (°C)	85	Tested case temperature (°C)	115
α	2.055E-06	α	2.824E-06
B	1.000	B	1.000
Reported L70(9k) (hours)	>54000	Reported L70(9k) (hours)	>54000

Table 2: Interpolation Report (projection based on in-situ temperature entered)

$T_{s,1}$ (°C)	85.00
$T_{s,1}$ (K)	358.15
α_1	2.055E-06
B_1	1.000
$T_{s,2}$ (°C)	-
$T_{s,2}$ (K)	-
α_2	-
B_2	-
E_a/k_b	-
A	-
B_0	1.000
$T_{s,1}$ (°C)	39.80
$T_{s,1}$ (K)	312.95
α_1	2.055E-06
Reported L70(9k) at 39.8°C (hours)	>54000

Wiring Diagram

Disconnect power before installation

