waveform lighting

PN: 7021.65

365 nm realUV™ LED Longevity Test Data

TEST SUMMARY

Report Date: May 12, 2018
Units: Milliwatts (mW); 340 – 800 nm
Drive current: 60 mA
Ambient Temperature: 77°F (25°C)
Integrating Sphere: ZWL-39

The following test results show the change in total power output (measured in mW) of the individual ultraviolet LED emitters used on our realUV™ LED strip lights. Sample emitters were continuously illuminated at 60 mA each for 2000 hours, with total power output measurements taken at certain intervals. A total of five sample specimens (notated S1 through S5 below) were tested.

The sample data show an average power output degradation of approximately 4.0% over the course of 2000 hours. The UV LEDs on the realUV™ LED strip lights are under-driven at 30 mA, or approximately 50% of the test current level. As such, these test results are likely to under-estimate the actual longevity of the product.

	0H	168H	720H	1000H	2000H
S1	35.928	35.789	35.034	35.004	34.905
S2	36.202	36.002	35.487	35.213	34.875
S3	35.183	35.104	34.985	34.566	34.267
S4	35.423	34.980	34.885	34.765	33.984
S5	34.987	34.530	34.045	33.236	32.585
MAX	36.202	36.002	35.487	35.213	34.905
MIN	34.987	34.530	34.045	33.236	32.585
AVE	35.545	35.281	34.887	34.557	34.123
% MAIN	100.0%	99.3%	98.2%	97.2%	96.0%