

**Hercules Sizing Tester Calibration Test Record**

Test Conditions		
Machine ID	<b>TAF-310</b>	
Date	<b>October 14, 2014</b>	
Room Temperature (Dry Bulb)	<b>+74.2 °F</b>	= +23.4 °C
Room Relative Humidity (RH)	<b>56.1 %</b>	
Room Dew Point	<b>+57.5 °F</b>	= +14.2 °C
Ink Temperature	<b>+68.0 °F</b>	= +20.0 °C
Software Version	<b>2.8-06</b>	

**Black HST - New**

Customer Tiles	
Tile	Reflectance
White Reading	<b>100.0 %</b>
Green Reading	<b>43.7 %</b>
Black Reading	<b>1.8 %</b>
Tile Set Spec Upper	<b>45.2 %</b>
Tile Set Calibration	<b>43.7 %</b>
Tile Set Spec Lower	<b>43.2 %</b>
White Raw Data R	<b>1869</b>
White Raw Data M	<b>1248</b>
Tiles Are Marked	<b>TAF-310 W71 G71</b>

Customer White Tile Sensitivity	
At 85.0 % Reflectance	Current
Initial Reading (at least 20 µA)	<b>- - -</b>
Minimum Acceptable	<b>Not Applicable</b>

µA means Microamperes.

Minimum Acceptable result for later tests is 80% of Initial Reading, or more.

Master Tiles	
Tile	Reflectance
White Reading	<b>100.0 %</b>
Green Reading	<b>44.2 %</b>
Black Reading	<b>1.9 %</b>
Reference	<b>45.0 %</b>

Fill in only the values with a

**yellow background.**  
Others are calculated.

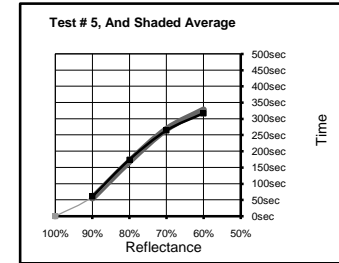
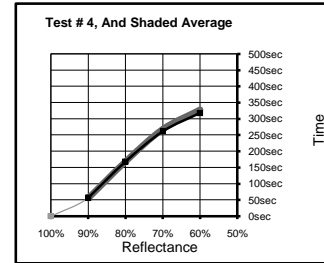
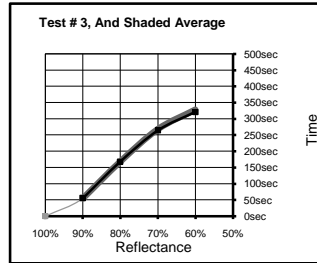
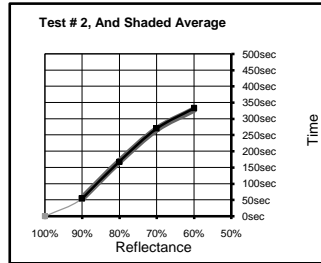
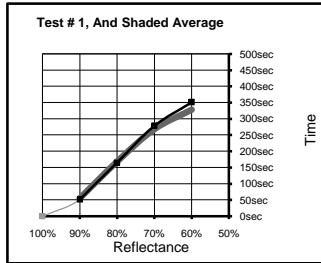
Test # 1	
Reflectance Set Point	Time
100 %	0 Seconds
<b>90 %</b>	<b>51 Seconds</b>
<b>80 %</b>	<b>165 Seconds</b>
<b>70 %</b>	<b>278 Seconds</b>
<b>60 %</b>	<b>351 Seconds</b>

Test # 2	
Reflectance Set Point	Time
100 %	0 Seconds
<b>90 %</b>	<b>54 Seconds</b>
<b>80 %</b>	<b>168 Seconds</b>
<b>70 %</b>	<b>270 Seconds</b>
<b>60 %</b>	<b>332 Seconds</b>

Test # 3	
Reflectance Set Point	Time
100 %	0 Seconds
<b>90 %</b>	<b>55 Seconds</b>
<b>80 %</b>	<b>168 Seconds</b>
<b>70 %</b>	<b>264 Seconds</b>
<b>60 %</b>	<b>321 Seconds</b>

Test # 4	
Reflectance Set Point	Time
100 %	0 Seconds
<b>90 %</b>	<b>56 Seconds</b>
<b>80 %</b>	<b>168 Seconds</b>
<b>70 %</b>	<b>261 Seconds</b>
<b>60 %</b>	<b>318 Seconds</b>

Test # 5	
Reflectance Set Point	Time
100 %	0 Seconds
<b>90 %</b>	<b>60 Seconds</b>
<b>80 %</b>	<b>174 Seconds</b>
<b>70 %</b>	<b>264 Seconds</b>
<b>60 %</b>	<b>317 Seconds</b>



Average Of Tests # 1 through #5	
Reflectance Set Point	Time
100 %	0 Seconds
<b>90 %</b>	<b>55 Seconds</b>
<b>80 %</b>	<b>169 Seconds</b>
<b>70 %</b>	<b>267 Seconds</b>
<b>60 %</b>	<b>328 Seconds</b>

LabHDP3

Test Lab Average (Wide Gray Line)	
Reflectance Set Point	Time
100 %	0 Seconds
<b>90 %</b>	<b>55 Seconds</b>
<b>80 %</b>	<b>162 Seconds</b>
<b>70 %</b>	<b>248 Seconds</b>
<b>60 %</b>	<b>299 Seconds</b>

Upper Limit (Dotted Line)	
Reflectance Set Point	Time
100 %	0 Seconds
90 %	69 Seconds
80 %	204 Seconds
70 %	312 Seconds
60 %	377 Seconds

Lower Limit (Dotted Line)	
Reflectance Set Point	Time
100 %	0 Seconds
90 %	41 Seconds
80 %	120 Seconds
70 %	184 Seconds
60 %	221 Seconds

**Upper Tolerance: +26 %**

Tolerance (TAPPI T 530):

Repeatability (within a laboratory) = 26%

Reproducibility (between laboratories) = 36%

**Lower Tolerance: -26 %**

**Test Results For TAF-310 October 14, 2014**

