

Photometric Evaluation to IES LM-79-08 Sphere Test Results

Sample Tested
S² Beam Warm White


Prepared for:

Man-D-Tec
8175 E. Paradise Lane
Scottsdale, AZ 85260

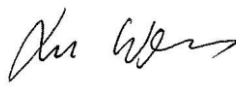
Phone: 480-998-0325

**Technical Report Number
2662601-01**

September 16, 2013

Prepared by: 

James E. Berkeley, Program Manager

Approved by: 

Wensheng Xu, Technical Advisor

Description of Evaluated Product

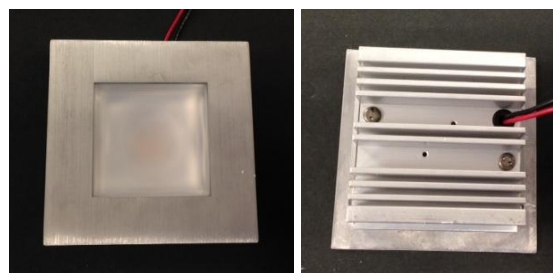
Product Tested **S² Beam Warm White**

Manufacturer **Man-D-Tec**

Notes:

Key Results

Luminous Flux **262.2 Lumens**
Input Power **4.31 Watts**
Luminous Efficacy **60.84 Lm/W**
ISTMT (temp test) **Not tested**
(per UL1598)



Photometric and Electrical Test Results (Integrating Sphere System)

Full Photometric Results

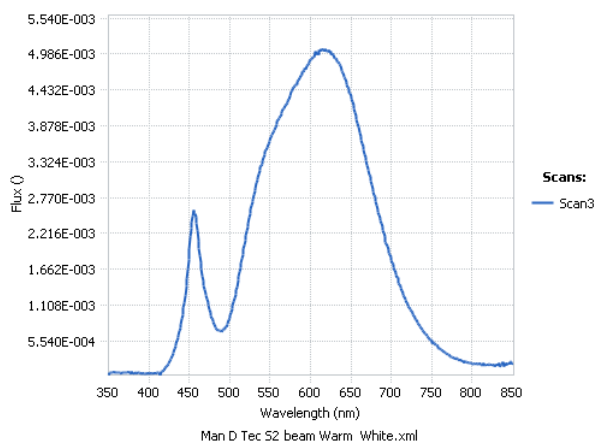
Total Luminous Flux **262.2 Lumens**
Luminous Efficacy **60.84 Lumens/Watt**
CCT **2856.2 K**
CRI **82.6**
R9 **82.6**
Radiant Flux **0.9047 Watts**
Chroma x / Chroma y **0.4496 / 0.4115**
Chroma u / Chroma v **0.2554 / 0.3508**
Chroma u' / Chroma v' **0.2554 / 0.5262**
Duv **0.00139**

Electrical Results

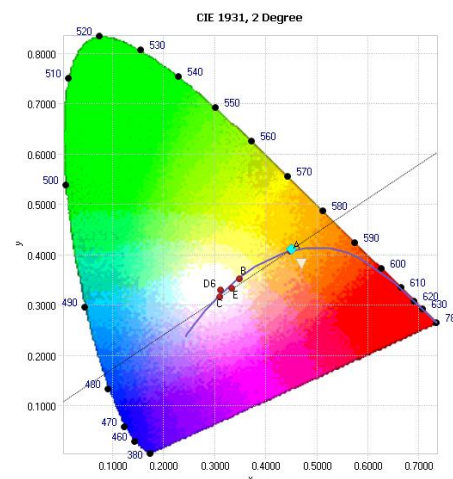
Input Power **4.31 Watts**
Input Voltage (DC) **6.10 Volts**
Input Current **0.700 Amps**
Power Factor **1.0**
THD% V/A **N/A**

Test Conditions

Date of Test **September 16, 2013**
Amb. Temp/Humidity **24.2°C/52%**
Stabilization Time **30 minutes**
Total Operating Time **34 minutes**
Orientation **Downward Facing**
Sphere **C**



Spectral Flux Graph



CIE 1931 Chromaticity Diagram

CSA is an accredited Test Laboratory (TL-430) to IESNA LM79-08 by IAS (International Accreditation Service)
National Voluntary Laboratory Accreditation Program (NVLAP)200732-0