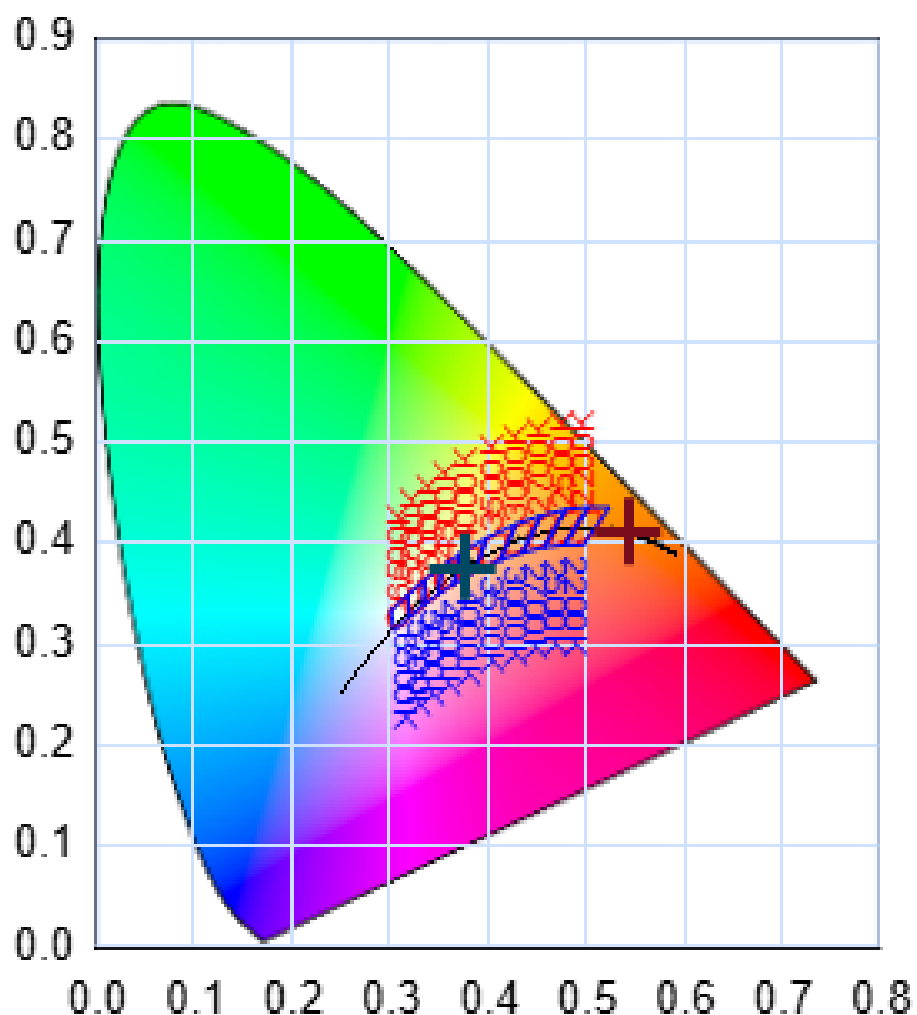


Integrating Sphere Test Report

Part Number: TW1840-CL-12-5m



Photometric Test Results

Total Radiant Flux* (Warm) (W): 0.233589315
 Total Radiant Flux* (Cool) (W): 0.328841974
 Total Luminous Flux* (Warm) (lm): 44.64826848
 Total Luminous Flux* (Cool) (lm): 91.38319212
 Color Temperature (Warm) (CCT K): 1846
 Color Temperature (Cool) (CCT K): 4111

CIE 1931 Tristimulus x (Warm): 0.54461766
 CIE 1931 Tristimulus x (Cool): 0.37617799
 CIE 1931 Tristimulus y (Warm): 0.41064239
 CIE 1931 Tristimulus y (Cool): 0.37574787
 CIE 1931 Tristimulus Y (Warm): 0.06537899
 CIE 1931 Tristimulus Y (Cool): 0.13378934
 CIE 1976 Chroma u' (Warm): 0.31856096
 CIE 1976 Chroma u' (Cool): 0.22270193
 CIE 1976 Chroma v' (Warm): 0.54043956
 CIE 1976 Chroma v' (Cool): 0.50050641

*Total radiant flux is per test length, listed on page 2, not a characteristic of the entire reel.

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Photometric Test Results cont. (White)

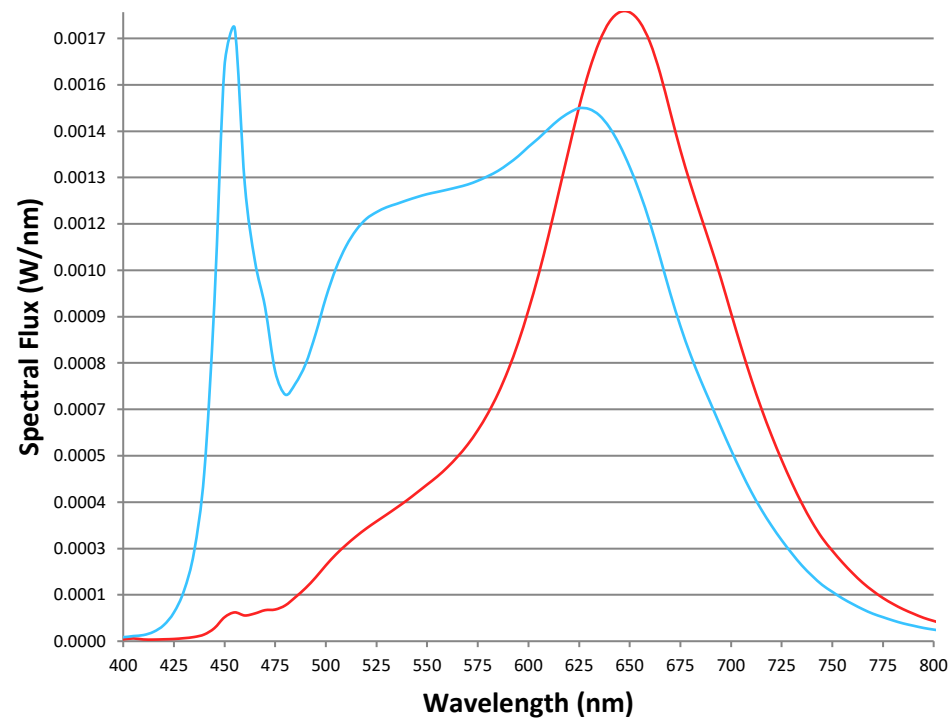
Duv (Warm): 0.00030648
Duv (Cool): 0.00080309
CQS (Warm): 75.6569
CQS (Cool): 95.2383
CRI (Warm): 93.279
CRI (Cool): 97.0985

R Values of Warm and Cool Diodes

R1 (Warm):	92.3079	R8 (Warm):	97.8974
R1 (Cool):	98.3112	R8 (Cool):	94.6892
R2 (Warm):	95.0303	R9 (Warm):	97.4012
R2 (Cool):	99.3257	R9 (Cool):	89.0068
R3 (Warm):	97.4306	R10 (Warm):	90.5711
R3 (Cool):	98.0588	R10 (Cool):	96.9811
R4 (Warm):	88.5278	R11 (Warm):	79.1292
R4 (Cool):	97.0587	R11 (Cool):	98.4864
R5 (Warm):	89.6992	R12 (Warm):	76.9798
R5 (Cool):	96.5233	R12 (Cool):	73.6362
R6 (Warm):	87.4262	R13 (Warm):	91.7444
R6 (Cool):	96.274	R13 (Cool):	99.1097
R7 (Warm):	97.9128	R14 (Warm):	96.6244
R7 (Cool):	96.5474	R14 (Cool):	98.3868

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Spectral Power Distribution



Spectral Response Characteristics

Peak Wavelength (Warm) (nm): 647.423
Peak Wavelength (Cool) (nm): 453.038
Center Wavelength (Warm) (nm): 649.753
Center Wavelength (Cool) (nm): 457.777
Full Width (Warm) (nm): 104.06
Full Width (Cool) (nm): 25.834
Centroid Wavelength (Warm) (nm): 640.652
Centroid Wavelength (Cool) (nm): 580.512

Voltage (V): 24

Date of Test: 5/8/24
Length of Test Sample: 150mm
Measurement Geometry: 2pi

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