

# RESOURCE – PHOTOMETRICS

1 foot TWH 3.0W/FT Dry 22/30K Both channels

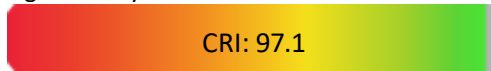


Light Efficiency:



Output: 196 lm

Light Quality:



Peak: 67.1 cd

Power: 3.3 W

PF: 1.0

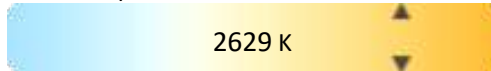
R9: 94.0

Duv: -0.0008

u': 0.266

v': 0.528

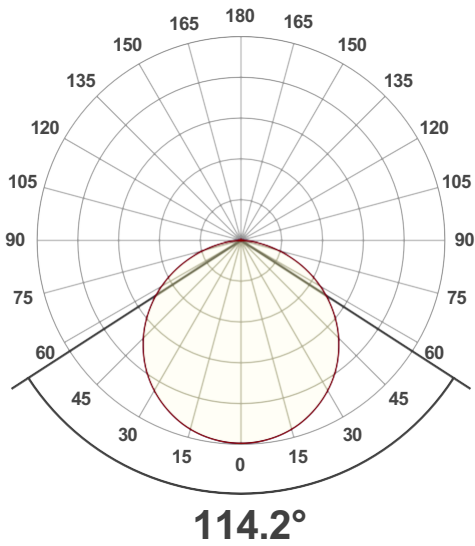
Color Temperature



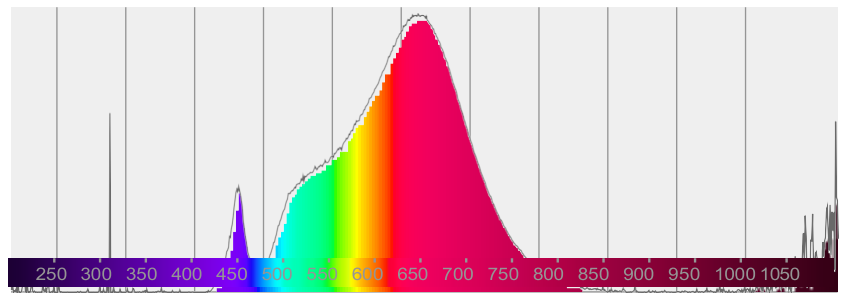
Rg 104.9  
Gamut index Rg

Rf 93.5  
Fidelity index Rf

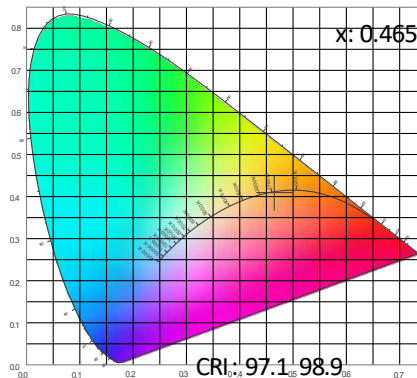
Beam Angle:



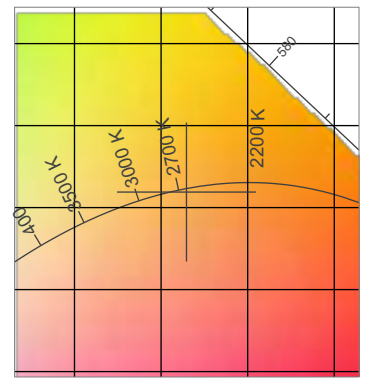
Spectra:



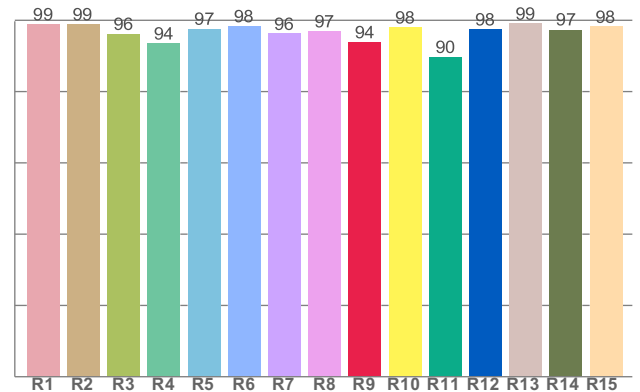
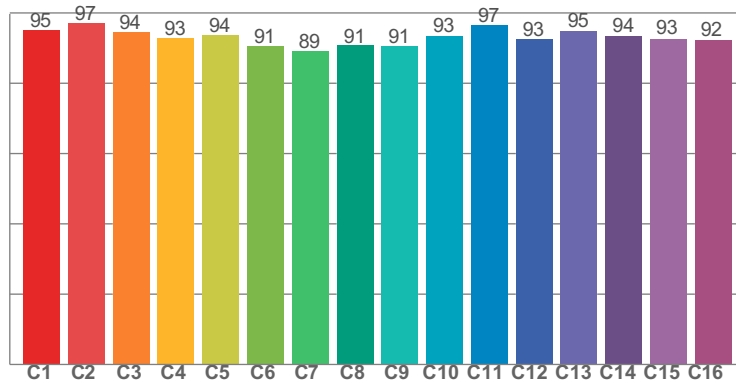
CIE 1931:



CIE 1931 Zoom:



TM30: 93.5



Nova Flex retains the right to modify the design of our products at any time as part of the company's continual product improvement program

# RESOURCE – PHOTOMETRICS

1 foot TWH 3.0W/FT Dry 22/30K Both channels

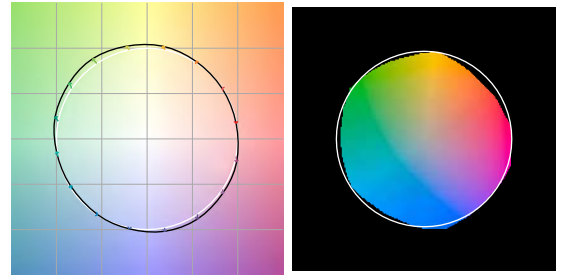


CRI R values, only R1-R8 are used to calculate final CRI value

Color Distortion

Color Vector

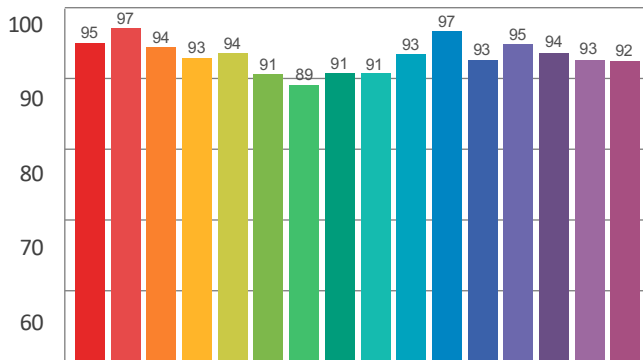
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
98.9	98.9	96.2	93.5	97.4	98.4	96.4	96.9	94.0	98.1	89.8	97.6	99.2	97.2	98.3



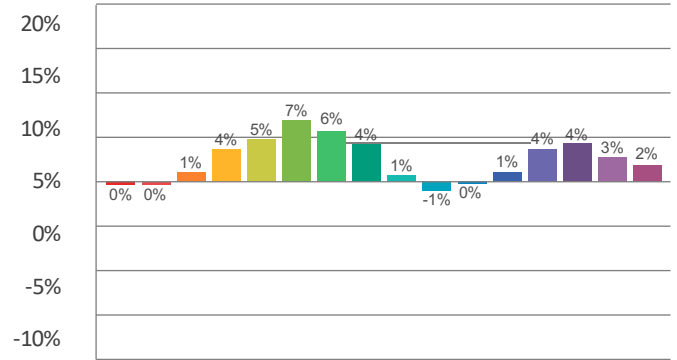
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
95.1	97.1	94.5	92.8	93.6	90.7	89.1	90.8	90.7	93.5	96.7	92.7	94.9	93.6	92.7	92.4

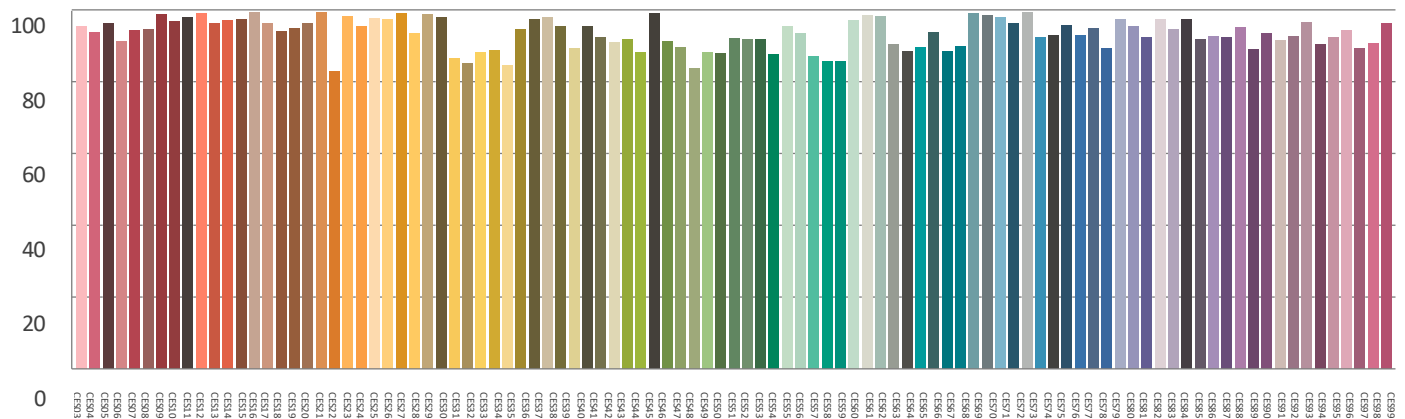
Rf by Hue



Chroma Shift by Hue



Color Evaluation Sample



# RESOURCE – PHOTOMETRICS

1 foot TWH 3.0W/FT Dry 22/30K 22K only



Light Efficiency:



Output: 89.8 lm

Light Quality:

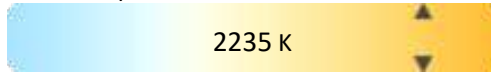


Peak: 30.9 cd

Power: 1.7 W

PF: 1.0

Color Temperature



R9: 89.5

Duv: 0.0003

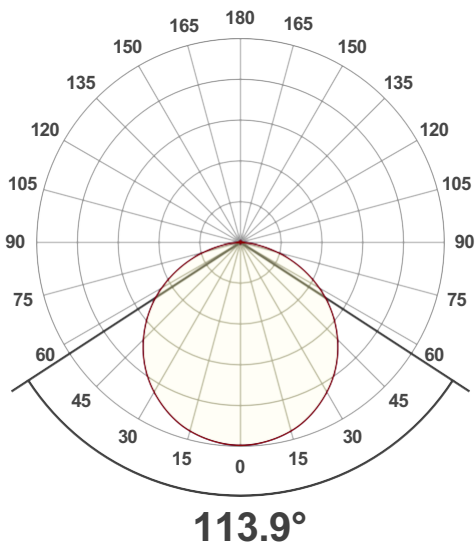
u': 0.288

v': 0.536

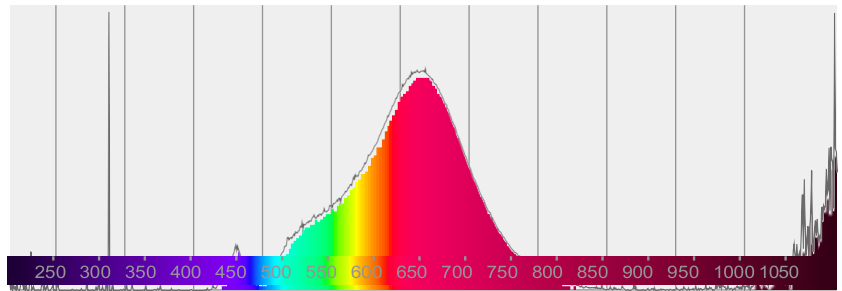
Rg 104.7  
Gamut index Rg

Rf 92.1  
Fidelity index Rf

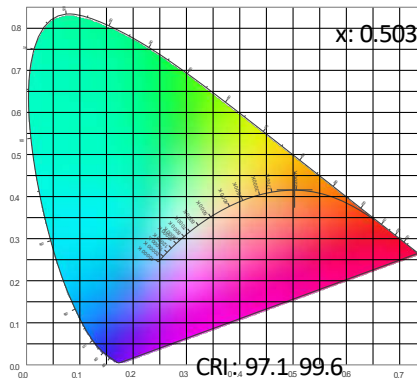
Beam Angle:



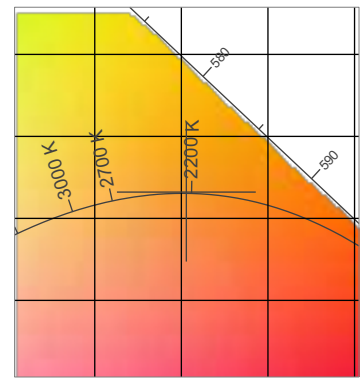
Spectra:



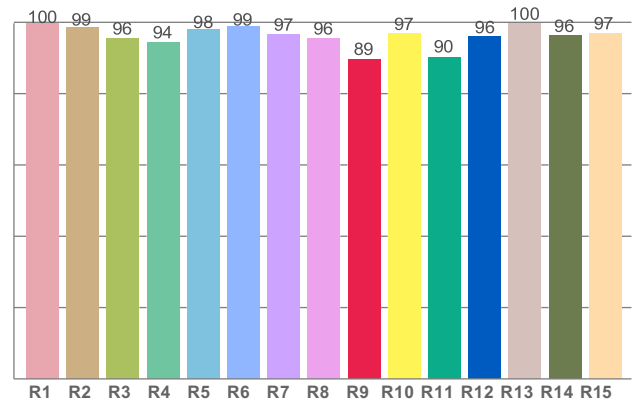
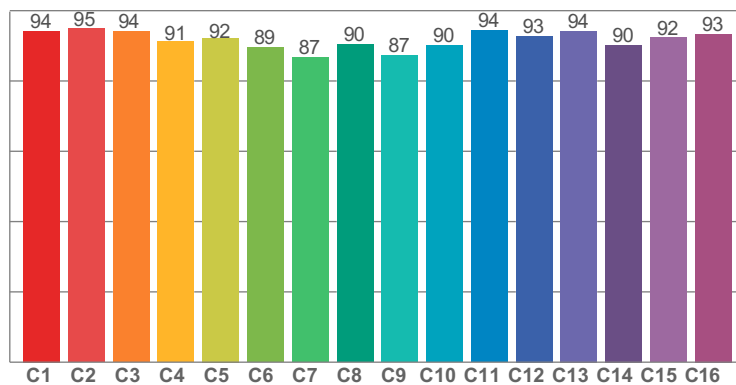
CIE 1931:



CIE 1931 Zoom:



TM30: 92.1



# RESOURCE – PHOTOMETRICS

1 foot TWH 3.0W/FT Dry 22/30K 22K only

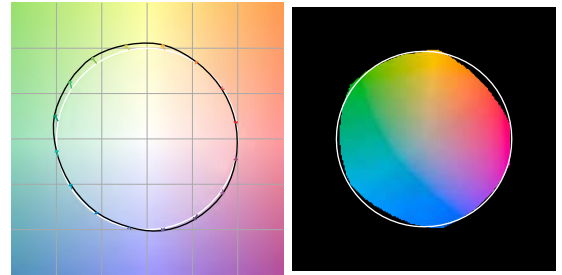


CRI R values, only R1-R8 are used to calculate final CRI value

Color Distortion

Color Vector

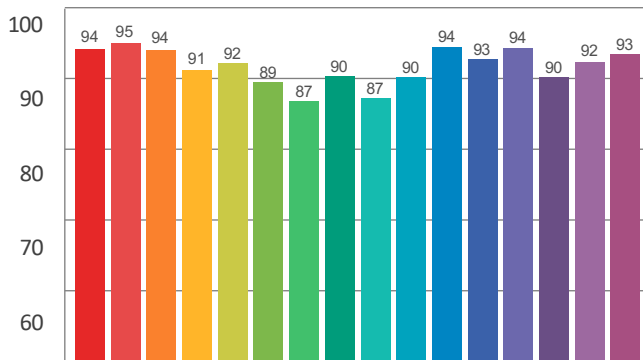
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
99.6	98.6	95.5	94.4	97.9	98.8	96.7	95.6	89.5	96.8	90.1	96.0	99.7	96.4	97.0



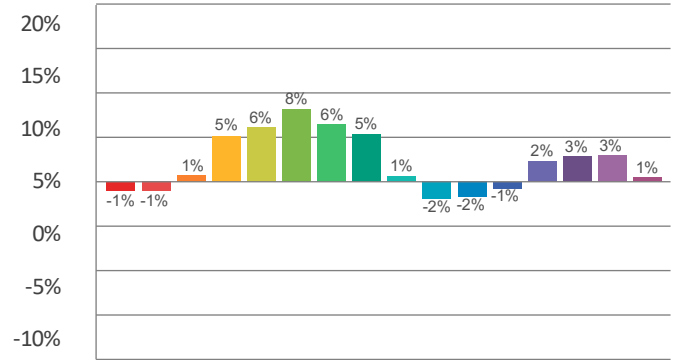
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
94.2	95.0	94.0	91.2	92.2	89.5	86.8	90.4	87.2	90.2	94.4	92.8	94.3	90.2	92.3	93.4

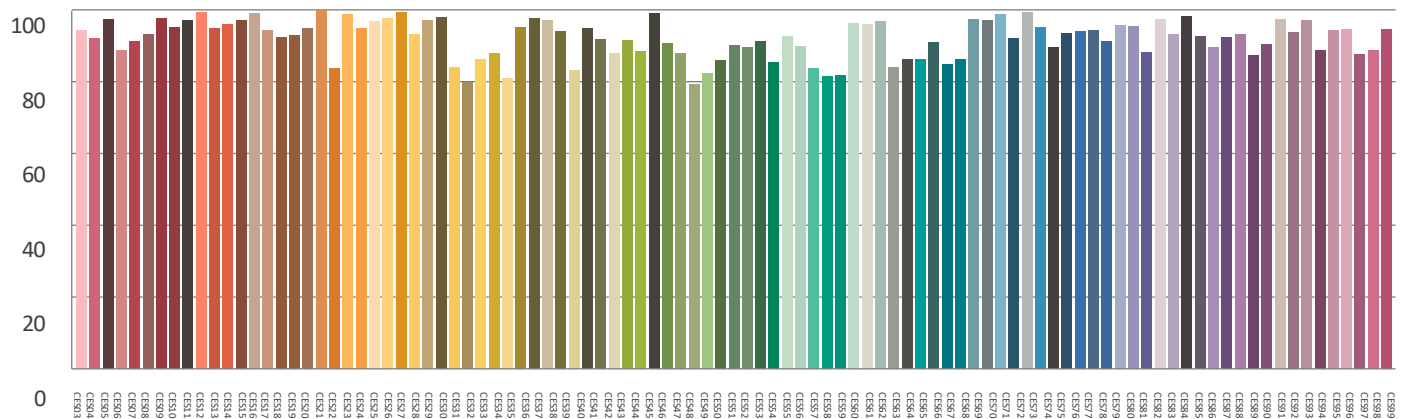
Rf by Hue



Chroma Shift by Hue



Color Evaluation Sample





# RESOURCE – PHOTOMETRICS

1 foot TWH 3.0W/FT Dry 22/30K 30K only

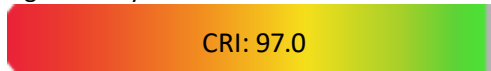


Light Efficiency:



Output: 108 lm

Light Quality:



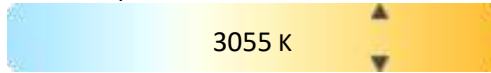
Peak: 36.9 cd

Power: 1.7 W

PF: 1.0

<b>Rg 103.7</b>
Gamut index Rg

Color Temperature



R9: 92.0

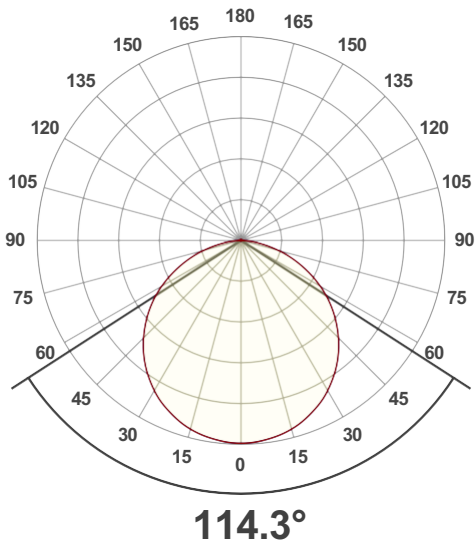
Duv: 0.0007

u': 0.249

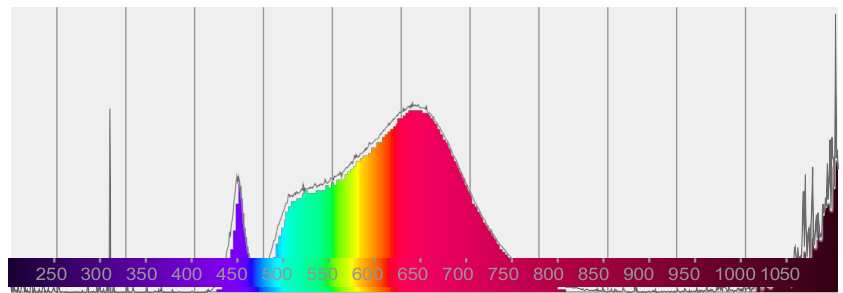
v': 0.521

<b>Rf 94.6</b>
Fidelity index Rf

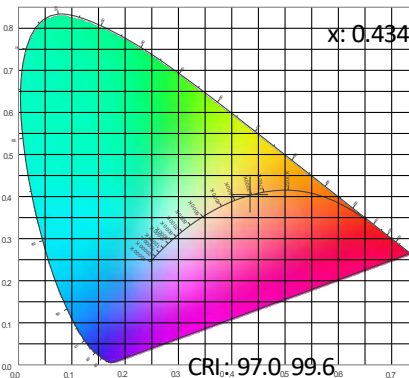
Beam Angle:



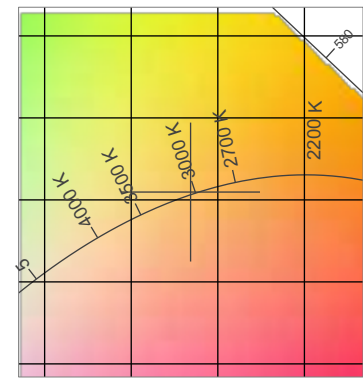
Spectra:



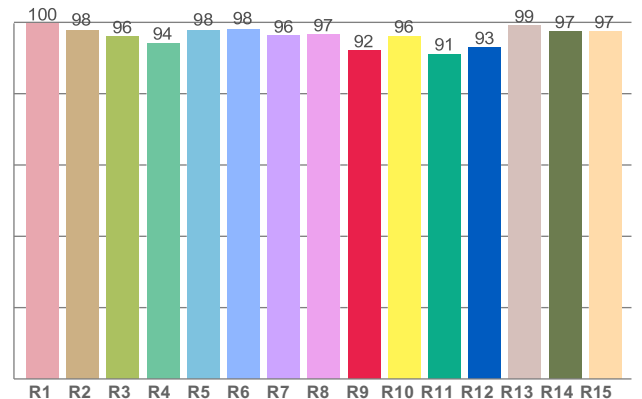
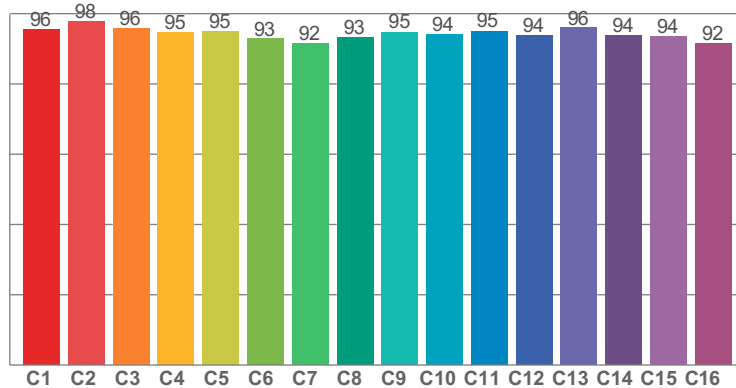
CIE 1931:



CIE 1931 Zoom:



TM30: 94.6



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# RESOURCE – PHOTOMETRICS

1 foot TWH 3.0W/FT Dry 22/30K 30K only

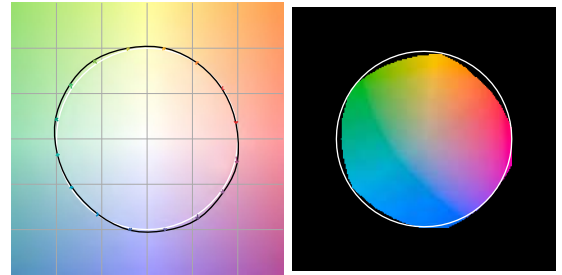


CRI R values, only R1-R8 are used to calculate final CRI value

## Color Distortion

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
99.6	97.8	96.0	94.1	97.9	98.1	96.2	96.6	92.0	96.1	91.1	93.0	99.1	97.5	97.3

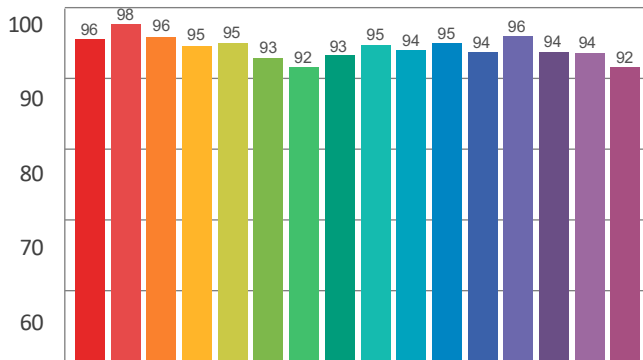
## Color Vector



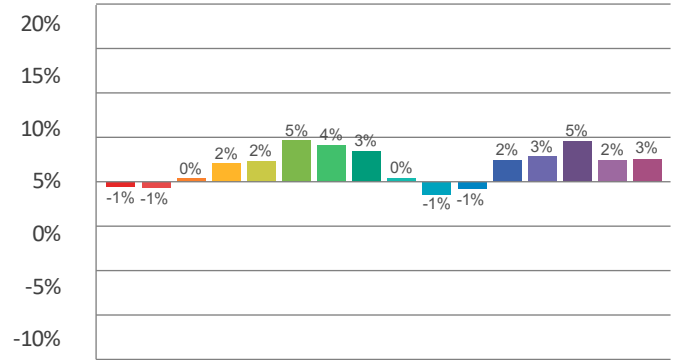
## TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
95.5	97.7	95.9	94.6	94.9	92.9	91.6	93.3	94.7	94.1	95.0	93.7	96.0	93.7	93.6	91.6

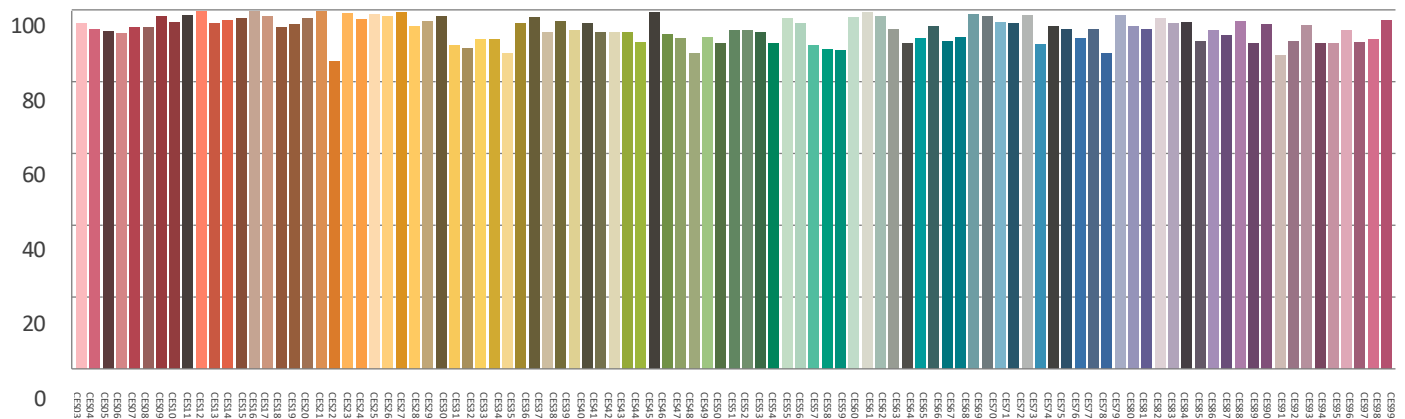
## Rf by Hue



## Chroma Shift by Hue



## Color Evaluation Sample



# RESOURCE – PHOTOMETRICS

SS\_TW\_H\_24v-3.0\_DRY\_24+35k

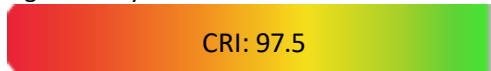


Light Efficiency:



Output: 216 lm

Light Quality:



Peak: 73.7 cd

Power: 3.3 W

PF: 1.0

R9: 96.3

Duv: -0.0015

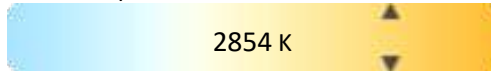
u': 0.257

v': 0.522

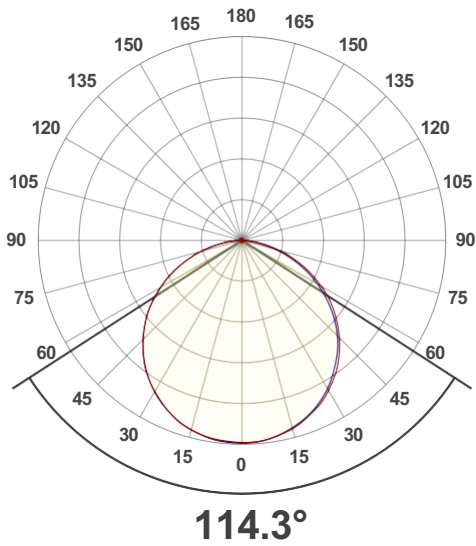
Rg 103.4  
Gamut index Rg

Rf 95.7  
Fidelity index Rf

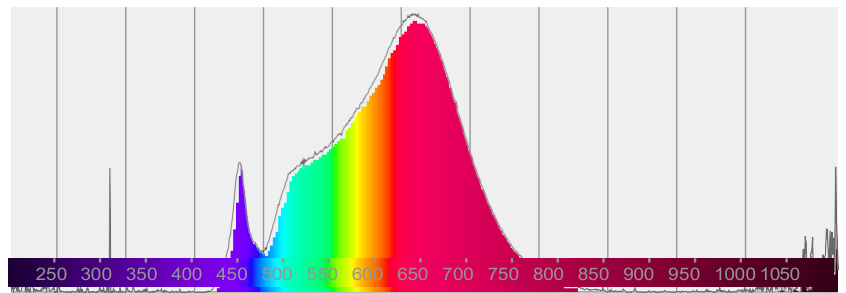
Color Temperature



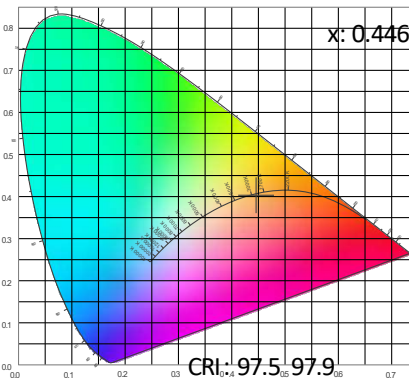
Beam Angle:



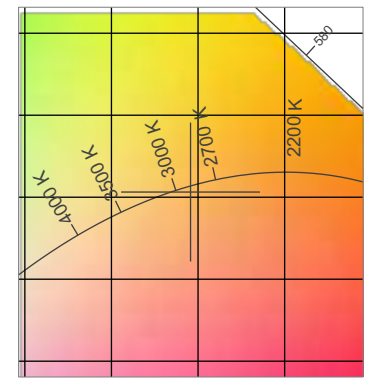
Spectra:



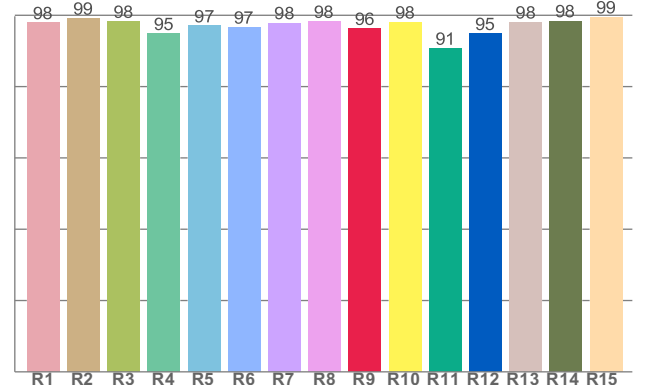
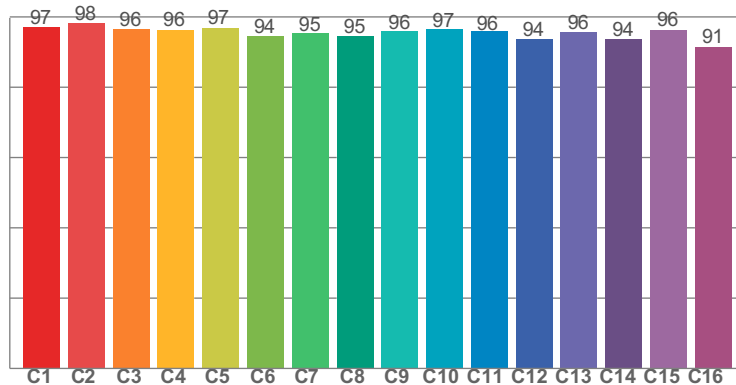
CIE 1931:



CIE 1931 Zoom:



TM30: 95.7



# RESOURCE – PHOTOMETRICS

SS\_TWH\_24v-3.0\_DRY\_24+35k

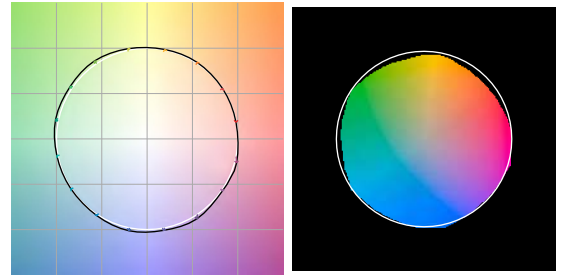


CRI R values, only R1-R8 are used to calculate final CRI value

## Color Distortion

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
97.9	99.1	98.2	94.8	97.1	96.6	97.8	98.2	96.3	98.0	90.7	94.9	98.0	98.4	99.5

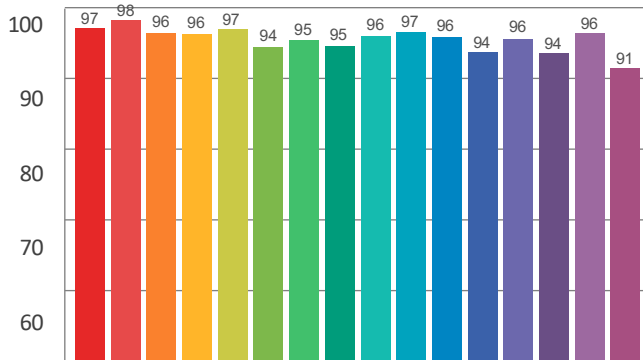
## Color Vector



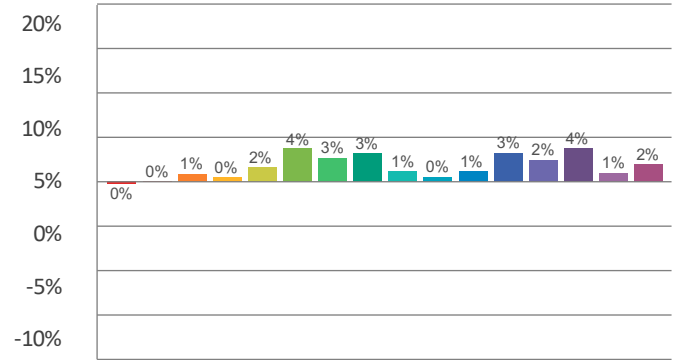
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
97.1	98.3	96.4	96.3	96.9	94.4	95.4	94.5	96.0	96.5	95.9	93.7	95.6	93.6	96.4	91.5

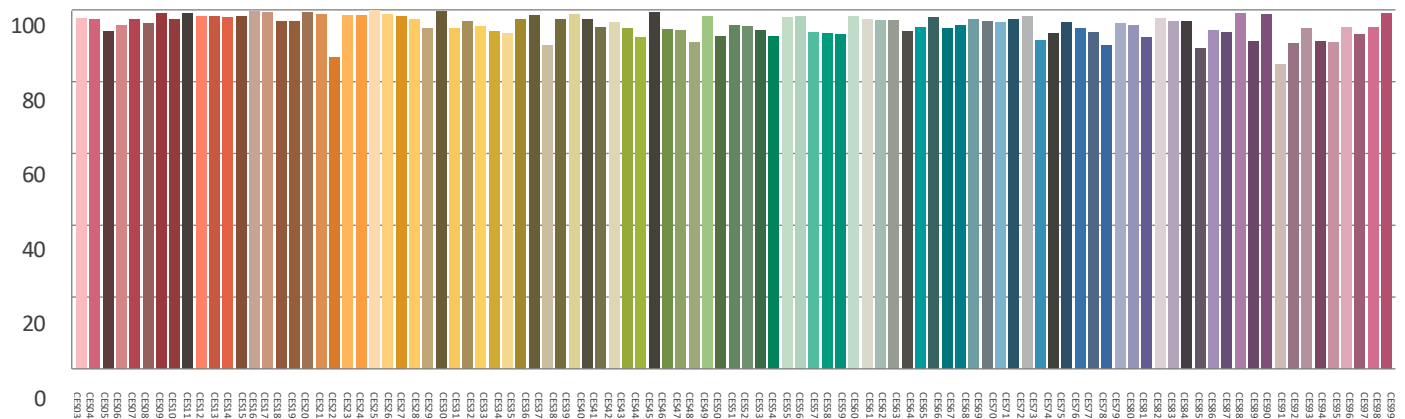
## Rf by Hue



## Chroma Shift by Hue



## Color Evaluation Sample



# RESOURCE – PHOTOMETRICS

SS\_TWH\_24v-3.0\_DRY\_24k



Light Efficiency:



Light Quality:



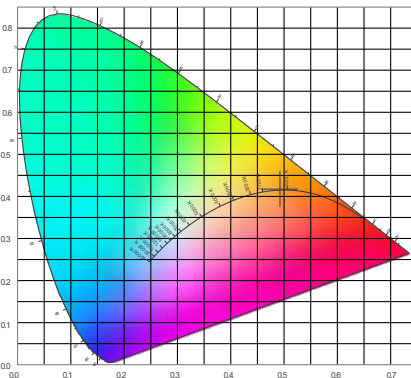
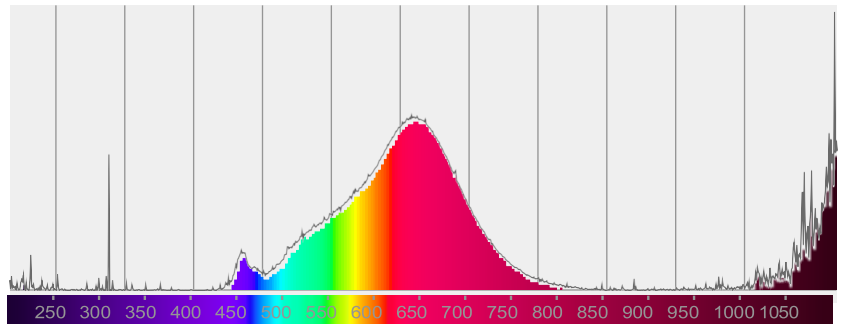
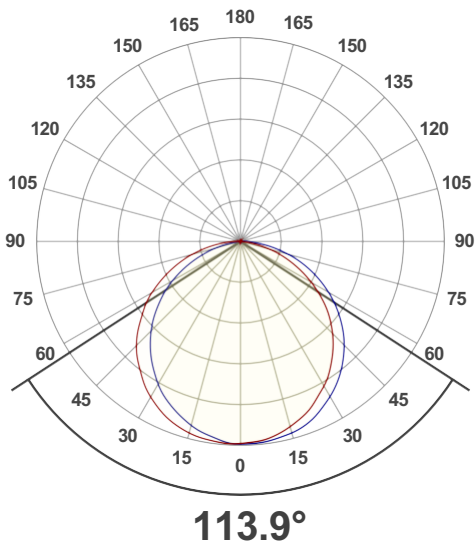
Color Temperature



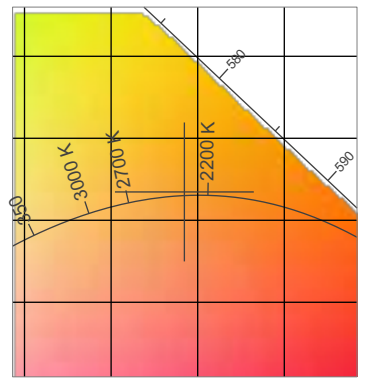
D :

u' :

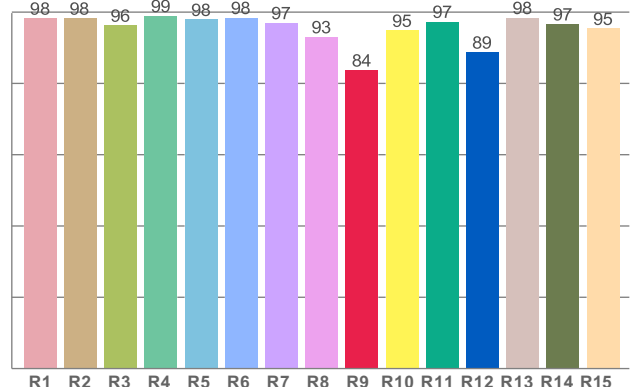
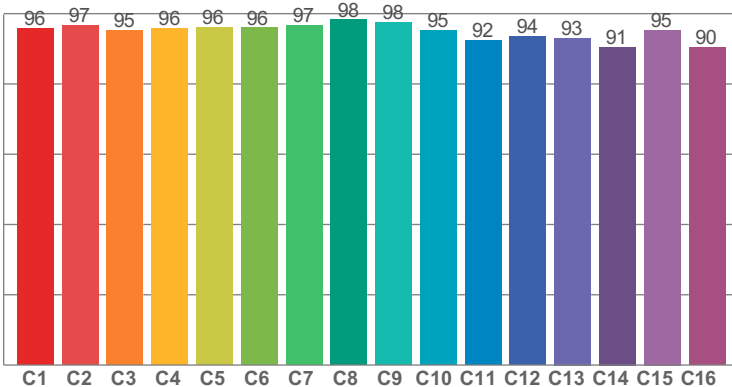
v' :



CIE 1931 Zoom:



CRI: 97.3 98.3



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PROJECT

FIXTURE

PHASE

DATE

800.595.6302

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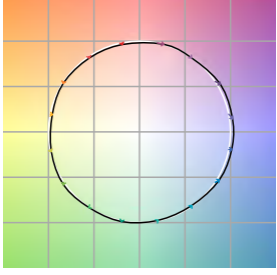
# RESOURCE – PHOTOMETRICS

SS\_TWH\_24v-3.0\_DRY\_24k



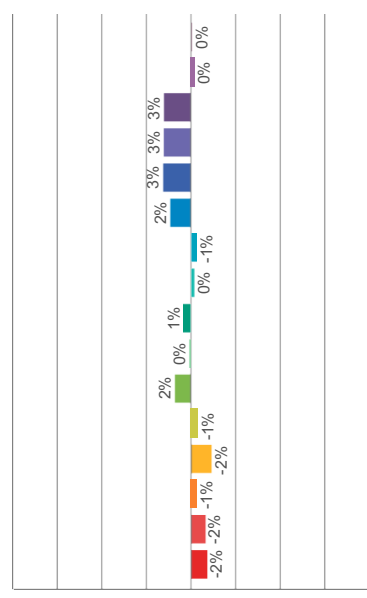
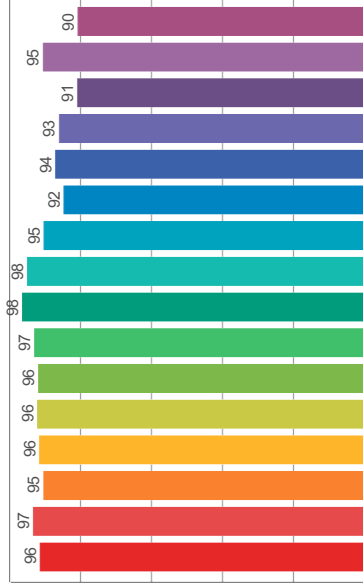
CRI R values, only R1-R8 are used to calculate final CRI value

Color Distortion

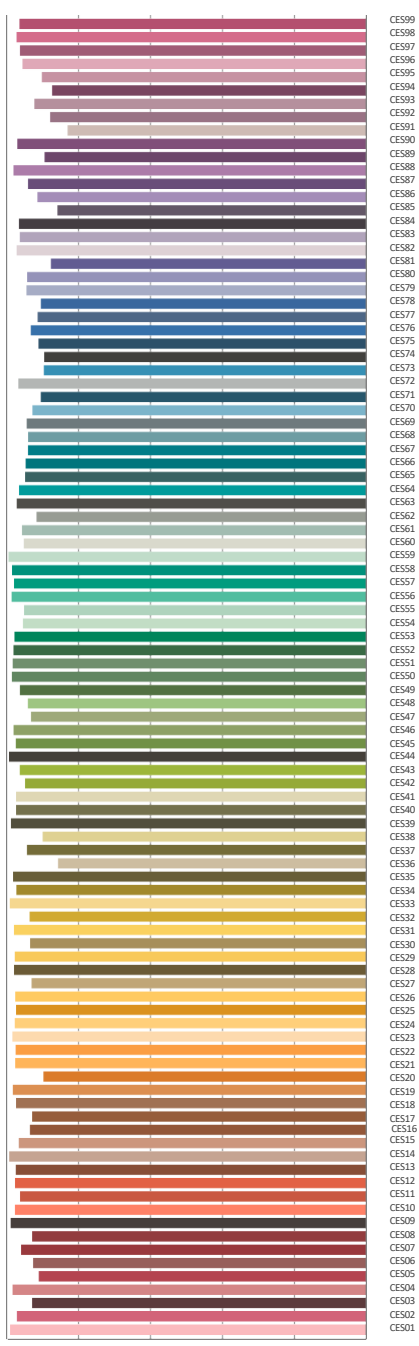



TM30 C values, 16 binned values out of total of 99 C values


Chroma Shift by Hue



Color Evaluation Sample



# RESOURCE – PHOTOMETRICS

SS\_TWH\_24v-3.0\_DRY\_24k



Light Efficiency:



Light Quality:



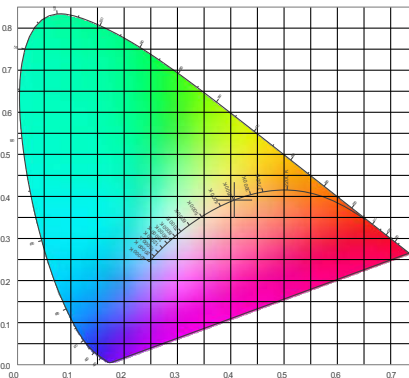
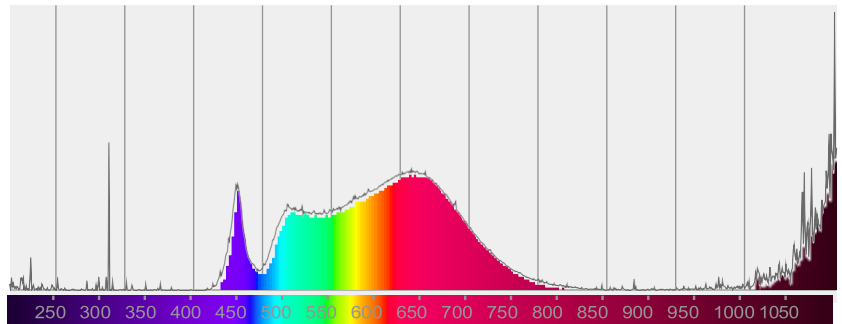
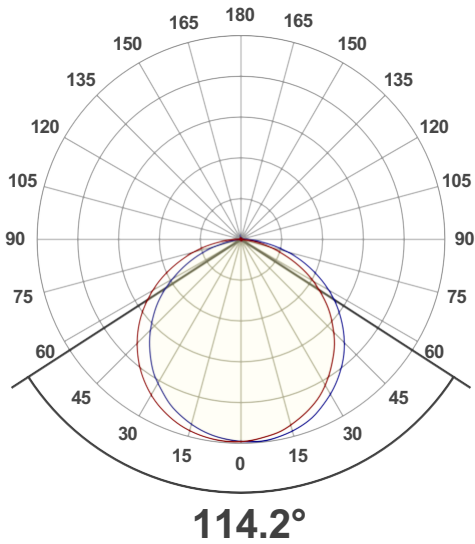
Color Temperature



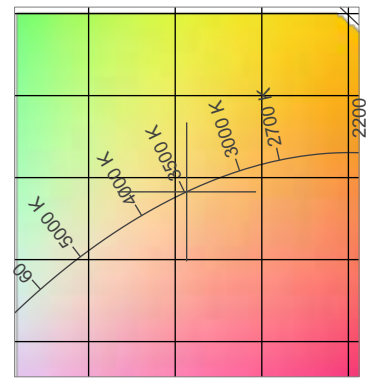
D : -

u':

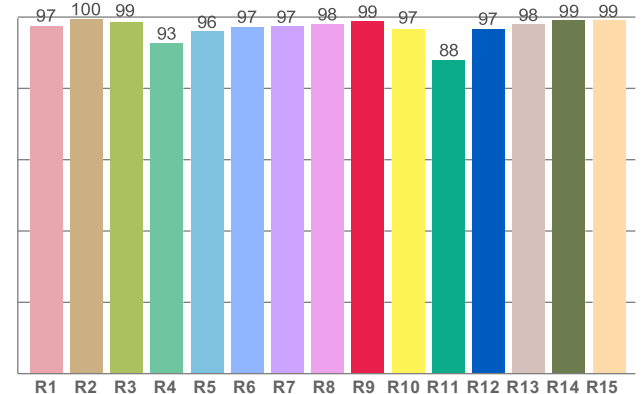
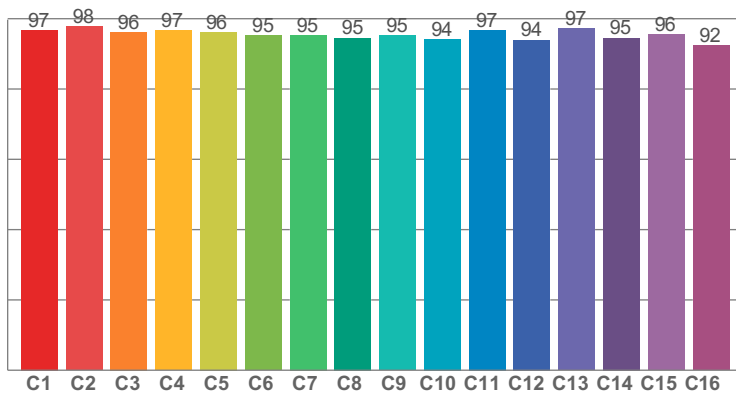
v':



CIE 1931 Zoom:



CRI: 97.1 97.4



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PROJECT

FIXTURE

PHASE

DATE

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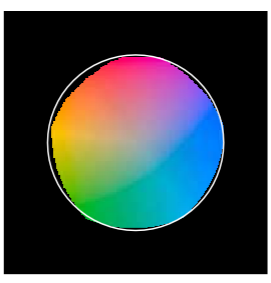
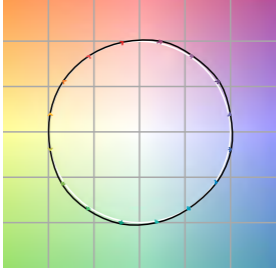
# RESOURCE – PHOTOMETRICS

SS\_TWH\_24v-3.0\_DRY\_24k



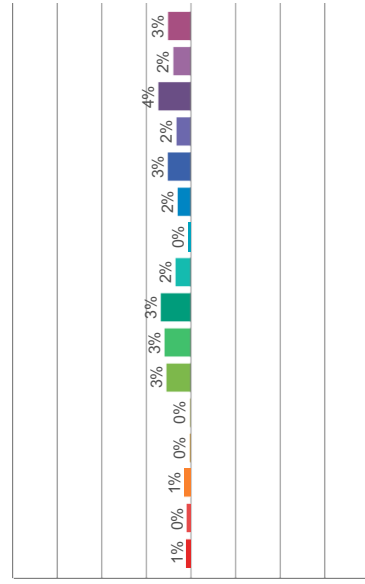
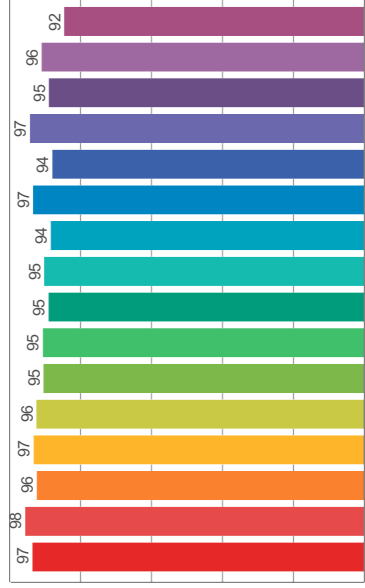
CRI R values, only R1-R8 are used to calculate final CRI value

Color Distortion

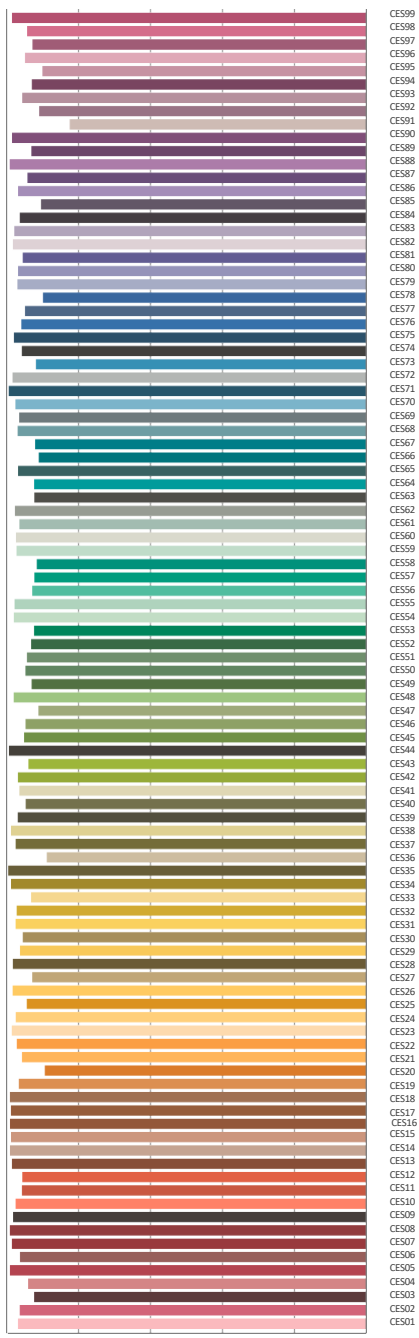



TM30 C values, 16 binned values out of total of 99 C values


Chroma Shift by Hue



Color Evaluation Sample





# RESOURCE – PHOTOMETRICS

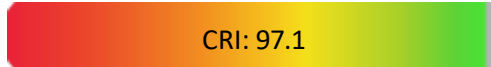


Light Efficiency:



Output: 272 lm

Light Quality:

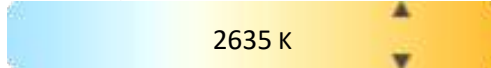


Peak: 93.1 cd

Power: 4.8 W

PF: 1.0

Color Temperature



R9: 92.4

Duv: -0.0011

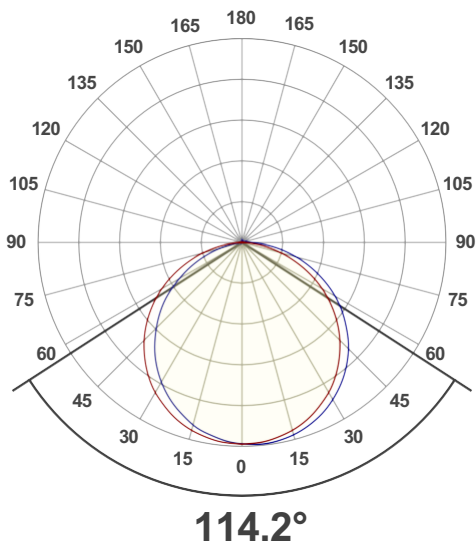
u': 0.266

v': 0.527

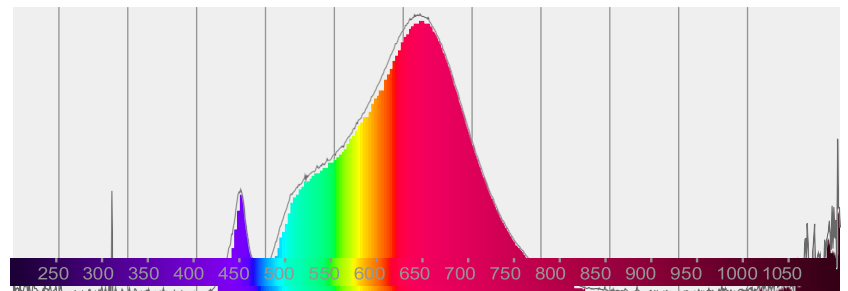
<b>Rg 105.0</b>
Gamut index Rg

<b>Rf 93.2</b>
Fidelity index Rf

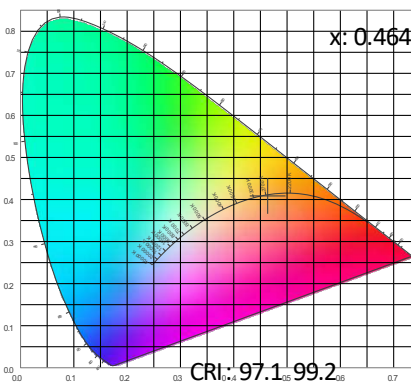
Beam Angle:



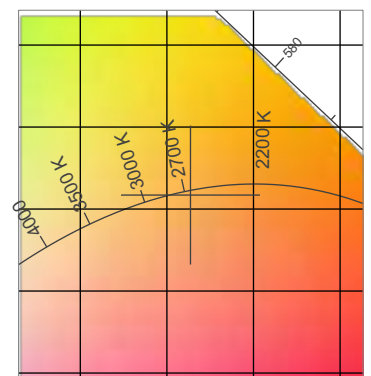
Spectra:



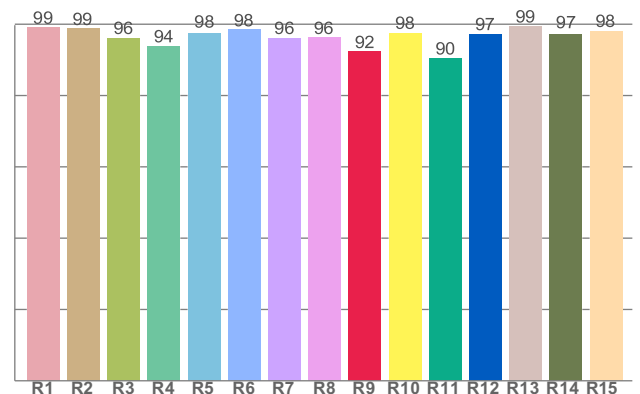
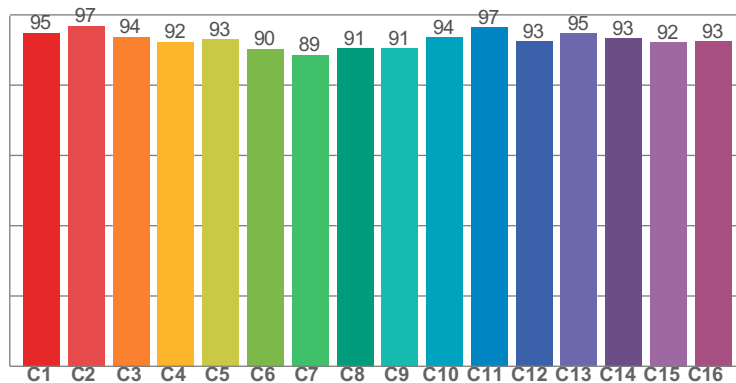
CIE 1931:



CIE 1931 Zoom:



TM30: 93.2



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# RESOURCE – PHOTOMETRICS

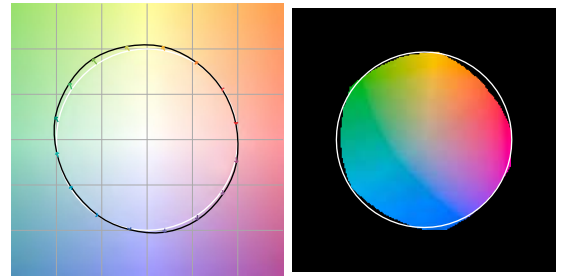


CRI R values, only R1-R8 are used to calculate final CRI value

Color Distortion

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
99.2	98.8	96.2	93.8	97.6	98.5	96.2	96.3	92.4	97.6	90.4	97.2	99.4	97.1	98.0

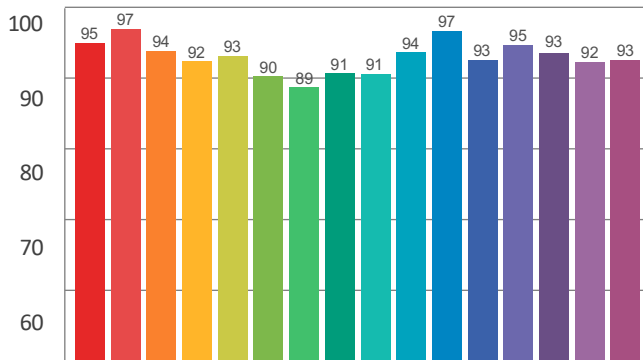
Color Vector



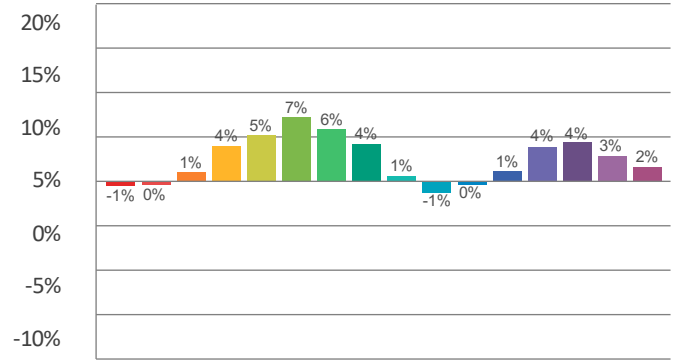
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
94.9	96.9	93.7	92.3	93.1	90.3	88.6	90.6	90.6	93.6	96.5	92.5	94.7	93.5	92.2	92.5

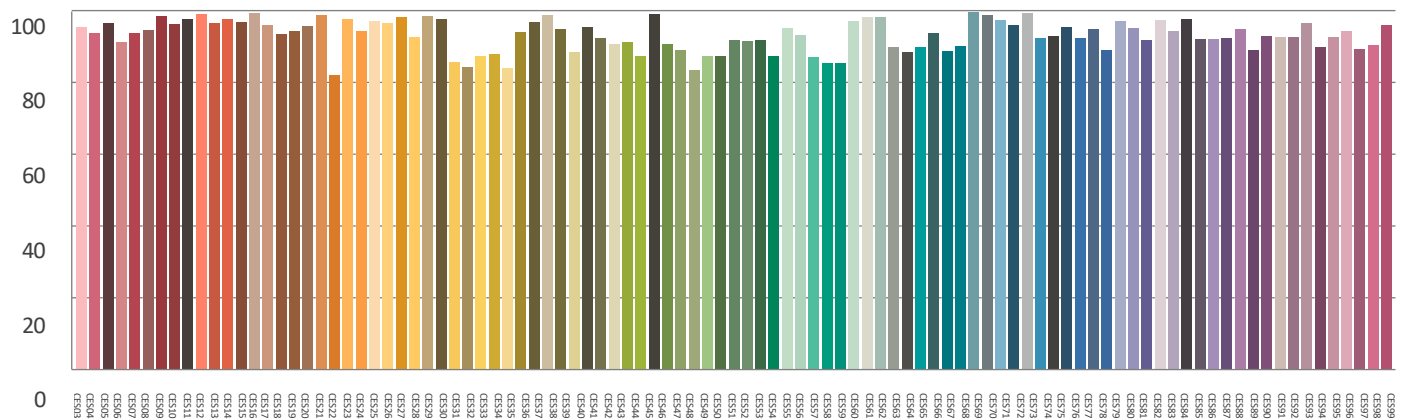
Rf by Hue



Chroma Shift by Hue



Color Evaluation Sample



# RESOURCE – PHOTOMETRICS

1 foot TWH 4.4W/FT Dry 22/30K 22K only

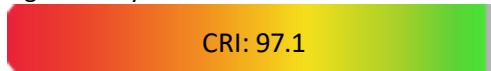


Light Efficiency:



Output: 126 lm

Light Quality:



Peak: 43.0 cd

Power: 2.4 W

PF: 1.0

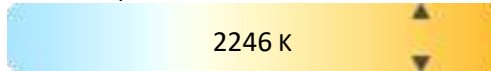
R9: 88.6

Duv: 0.0003

u': 0.287

v': 0.536

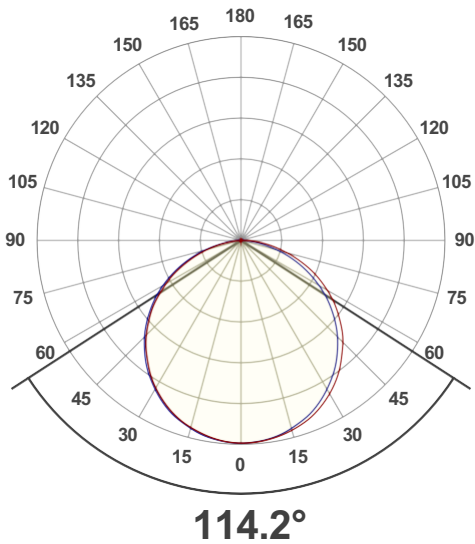
Color Temperature



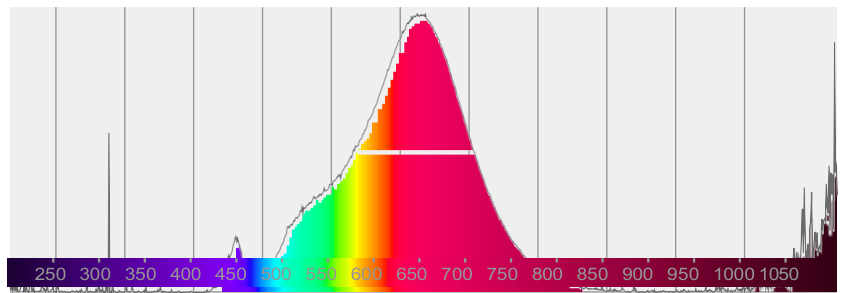
Rg 104.7  
Gamut index Rg

Rf 91.8  
Fidelity index Rf

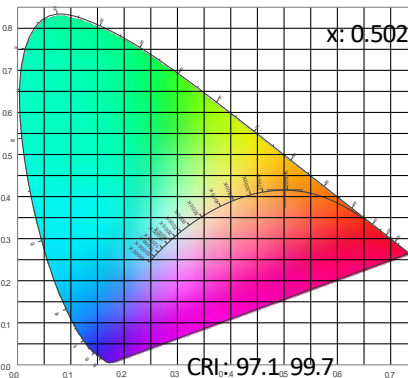
Beam Angle:



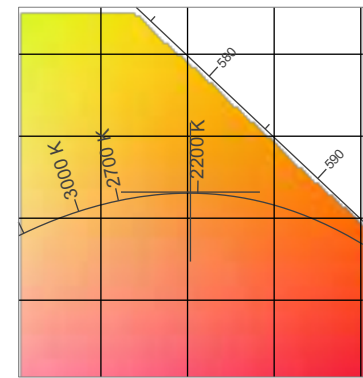
Spectra:



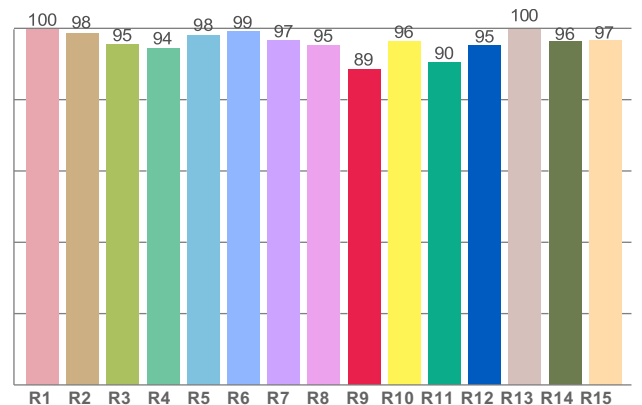
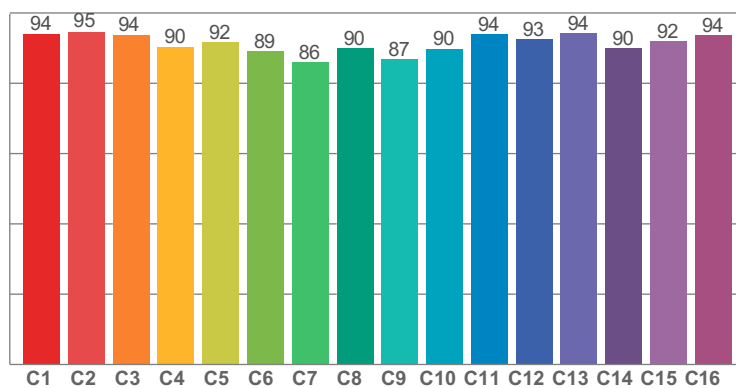
CIE 1931:



CIE 1931 Zoom:



TM30: 91.8



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# RESOURCE – PHOTOMETRICS

1 foot TWH 4.4W/FT Dry 22/30K 22K only

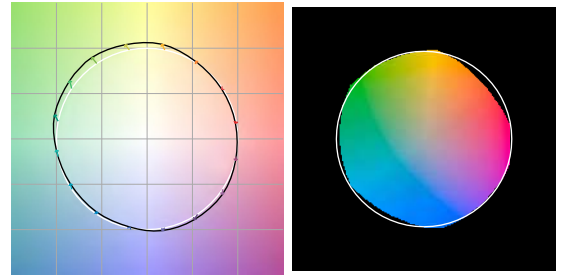


CRI R values, only R1-R8 are used to calculate final CRI value

Color Distortion

Color Vector

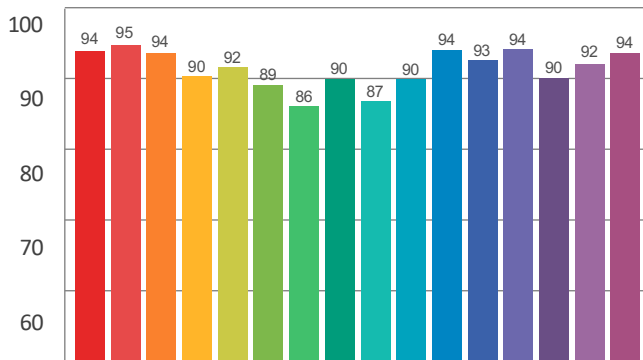
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
99.7	98.5	95.4	94.5	97.9	99.0	96.5	95.1	88.6	96.4	90.4	95.1	99.7	96.3	96.7



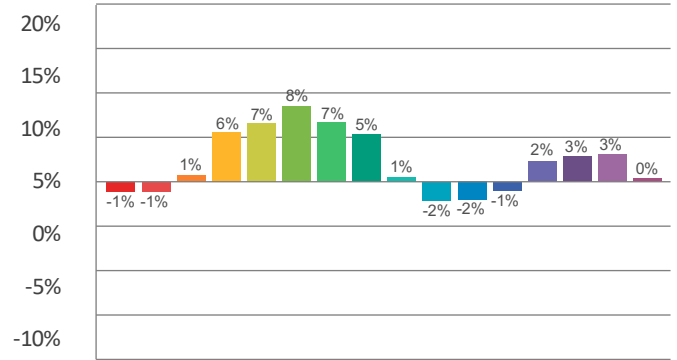
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
93.9	94.7	93.6	90.4	91.7	89.1	86.2	90.0	86.8	89.9	94.1	92.6	94.2	90.1	92.1	93.6

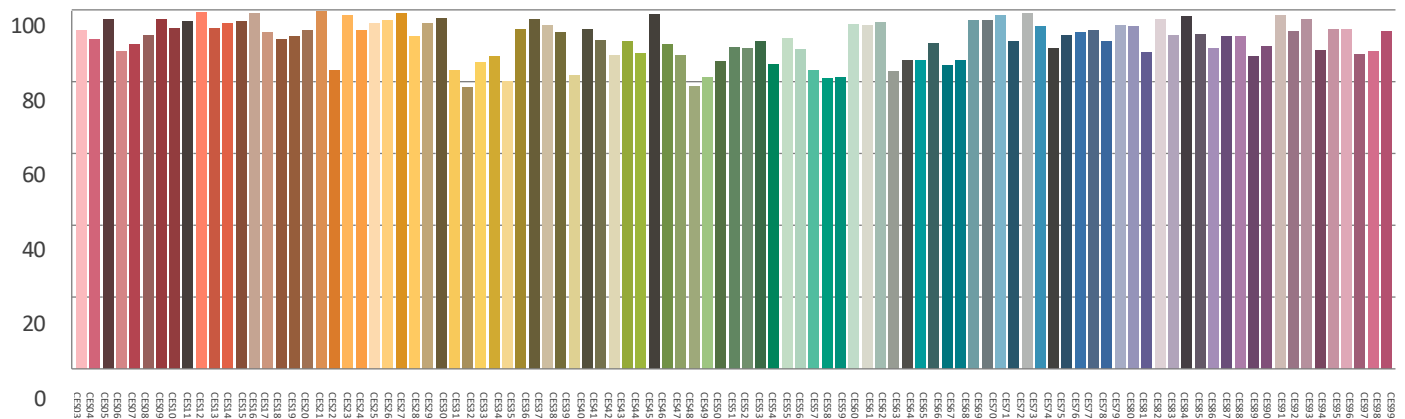
Rf by Hue



Chroma Shift by Hue



Color Evaluation Sample



# RESOURCE – PHOTOMETRICS

1 foot TWH 4.4W/FT Dry 22/30K 30K only

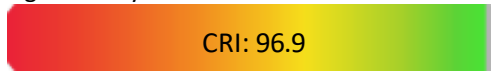


Light Efficiency:



Output: 150 lm

Light Quality:



Peak: 51.2 cd

Power: 2.4 W

PF: 1.0

R9: 91.1

Duv: 0.0004

u': 0.248

v': 0.521

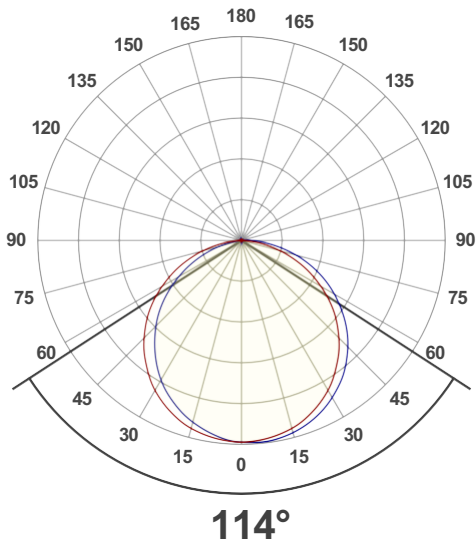
Color Temperature



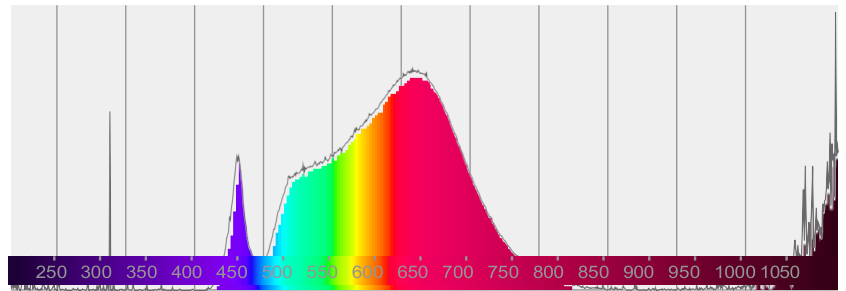
Rg 103.8  
Gamut index Rg

Rf 94.4  
Fidelity index Rf

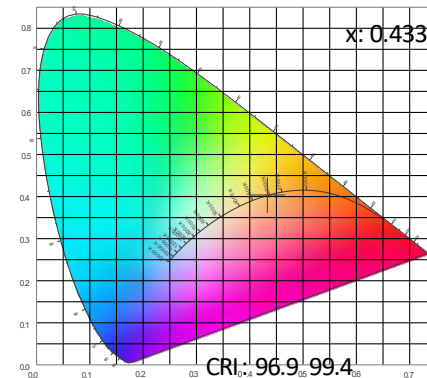
Beam Angle:



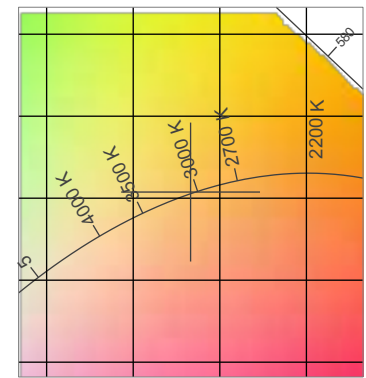
Spectra:



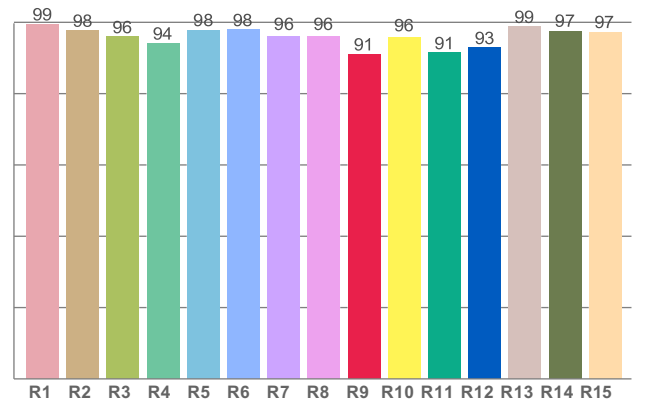
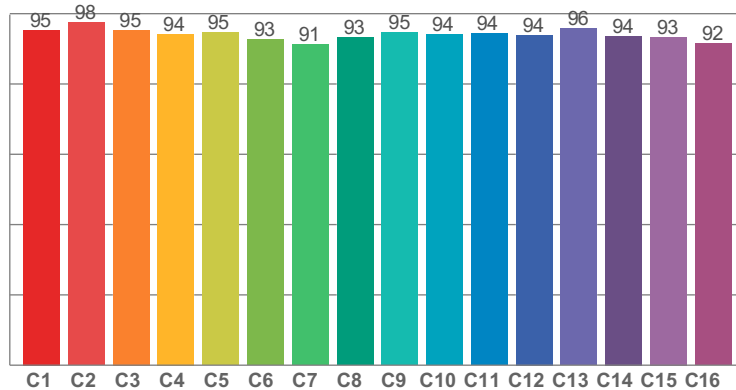
CIE 1931:



CIE 1931 Zoom:



TM30: 94.4



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# RESOURCE – PHOTOMETRICS

1 foot TWH 4.4W/FT Dry 22/30K 30K only

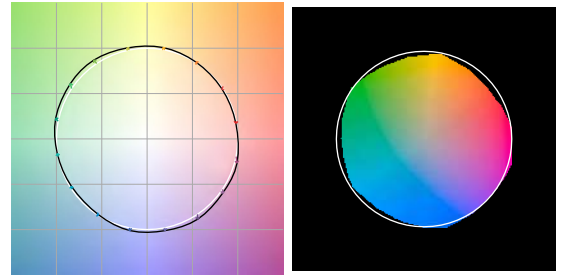


CRI R values, only R1-R8 are used to calculate final CRI value

Color Distortion

Color Vector

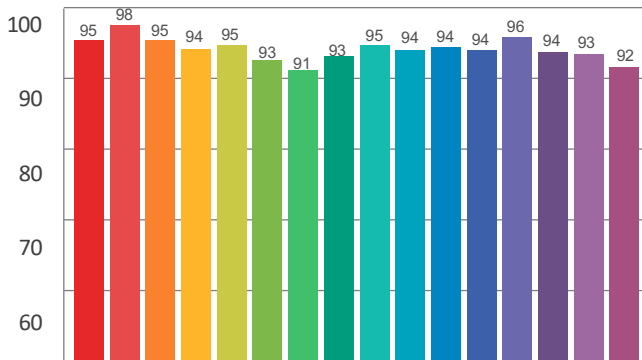
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
99.4	97.7	95.9	94.2	97.8	97.9	96.0	96.2	91.1	95.7	91.5	92.9	98.9	97.4	97.1



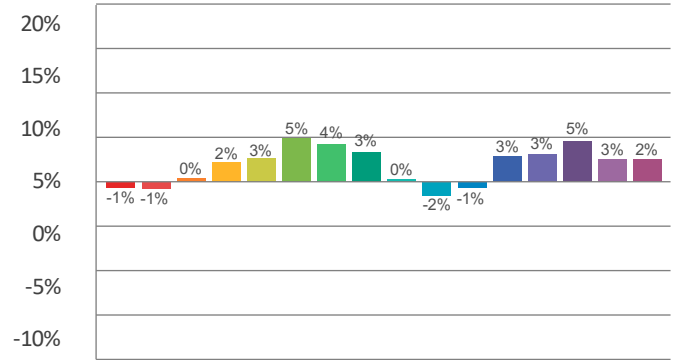
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
95.4	97.5	95.3	94.2	94.7	92.6	91.2	93.2	94.7	94.0	94.4	93.9	95.8	93.7	93.4	91.6

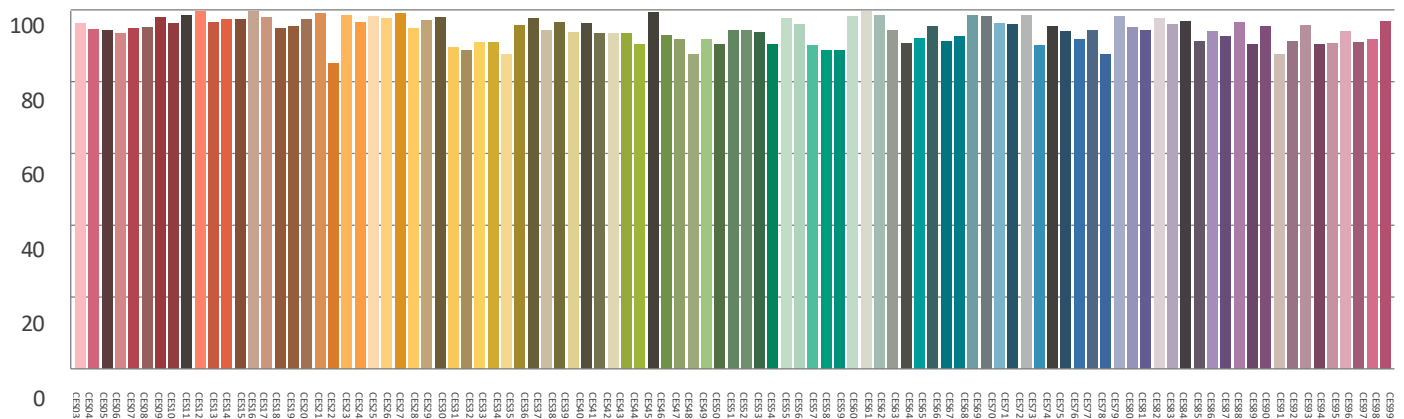
Rf by Hue



Chroma Shift by Hue



Color Evaluation Sample



# RESOURCE – PHOTOMETRICS

SS\_TWH\_24v-4.4\_DRY\_24+35k



Light Efficiency:



Light Quality:



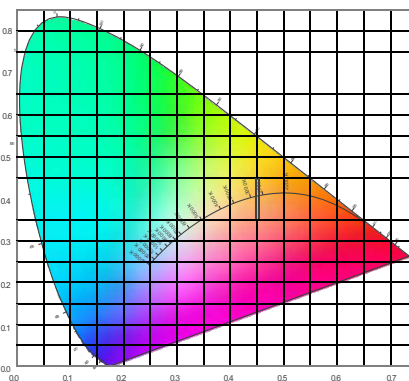
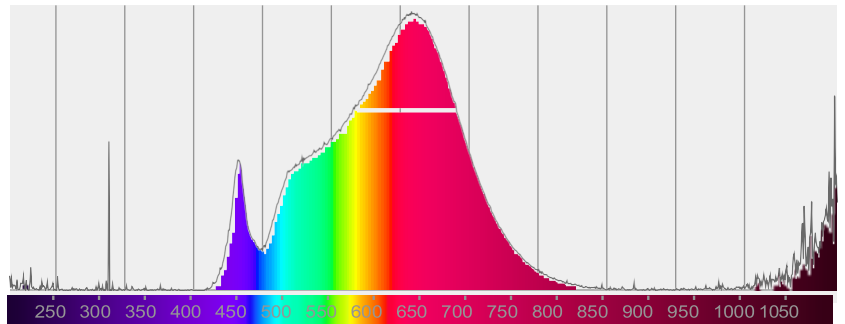
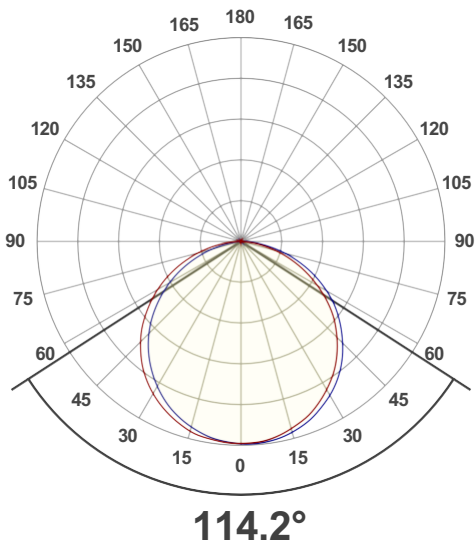
Color Temperature



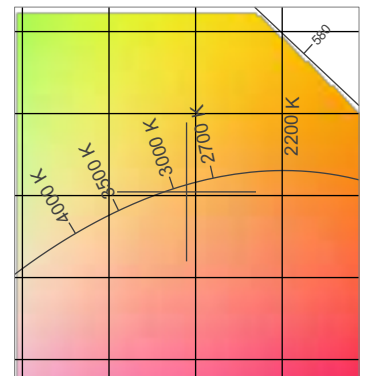
D : -

u':

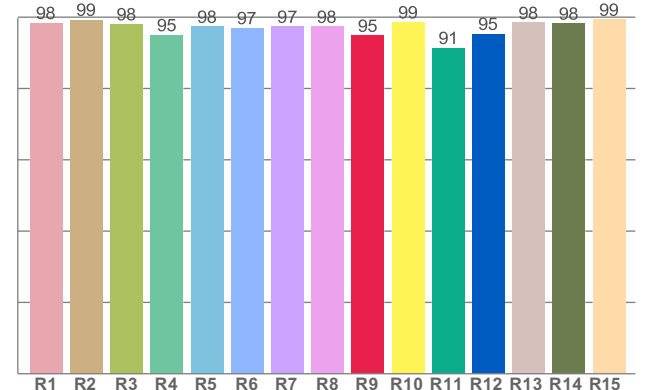
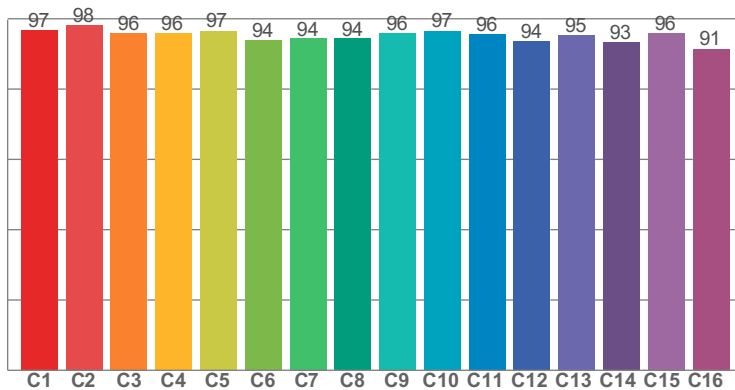
v':



CIE 1931 Zoom:



CRI: 97.5 98.4



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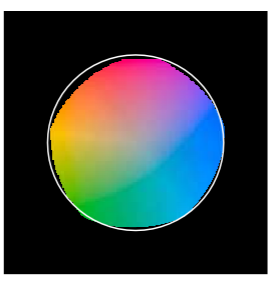
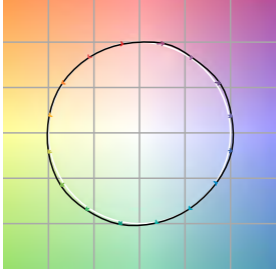
# RESOURCE – PHOTOMETRICS

SS\_TWH\_24v-4.4\_DRY\_24+35k



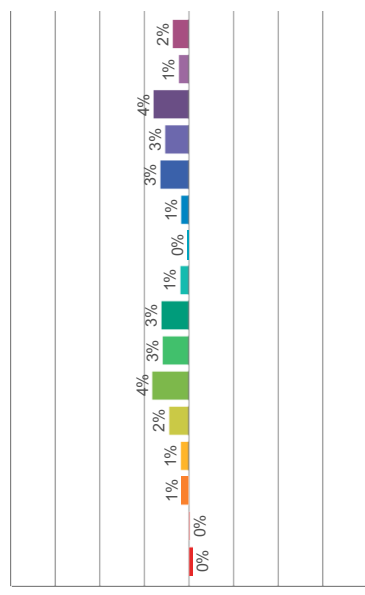
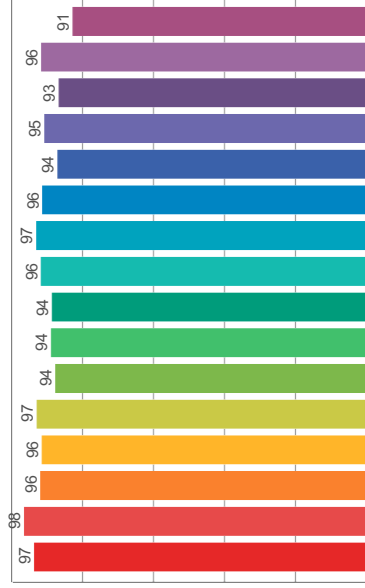
CRI R values, only R1-R8 are used to calculate final CRI value

Color Distortion

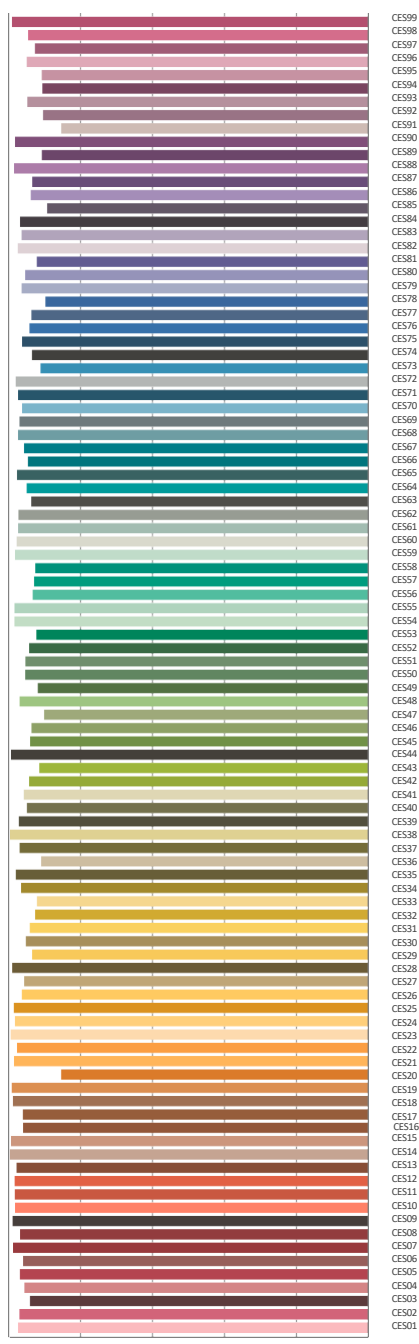



TM30 C values, 16 binned values out of total of 99 C values


Chroma Shift by Hue



Color Evaluation Sample





# RESOURCE – PHOTOMETRICS

SS\_TWH\_24v-4.4\_DRY\_24k



Light Efficiency:



Light Quality:



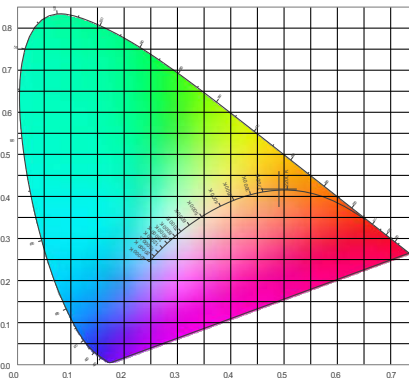
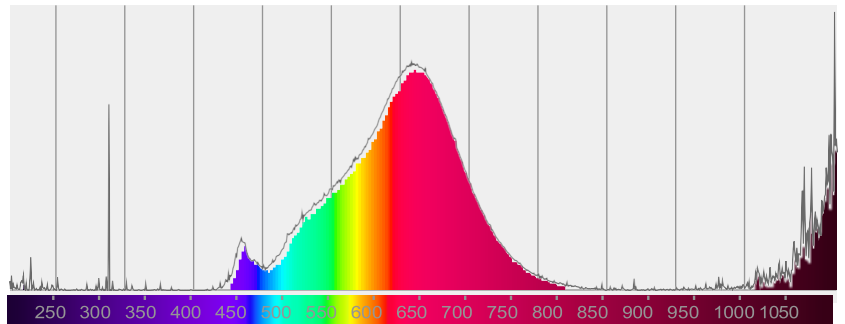
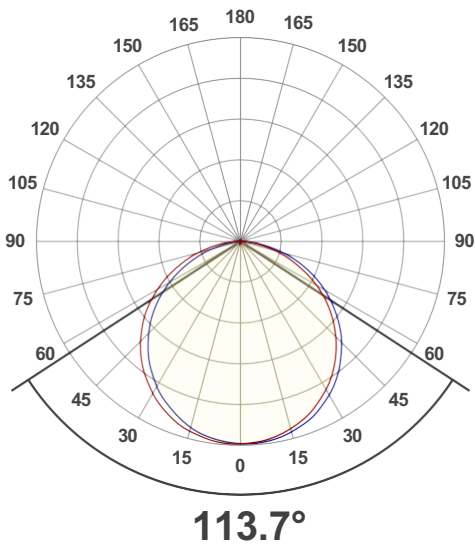
Color Temperature



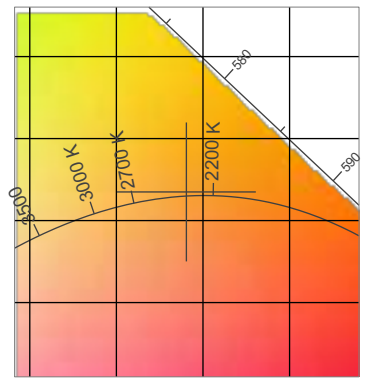
D :

u' :

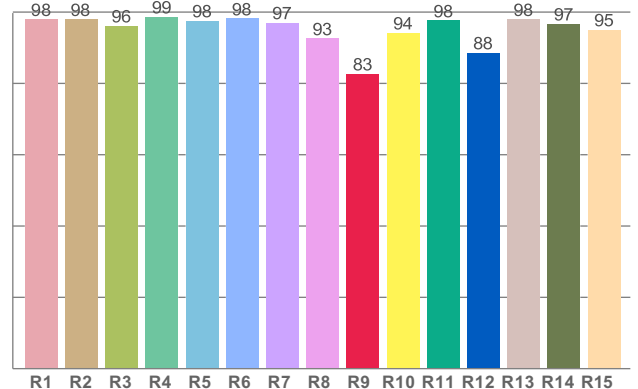
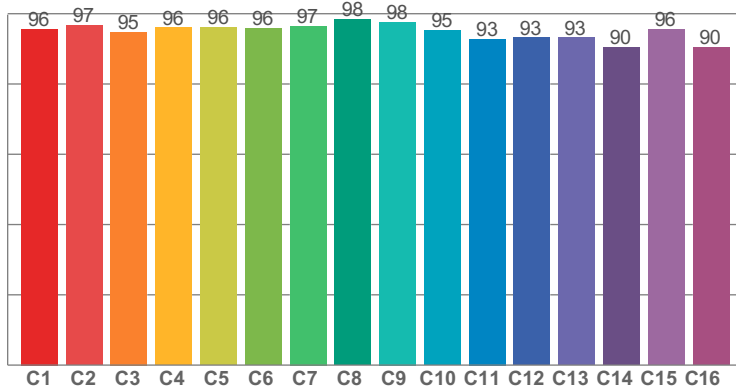
v' :



CIE 1931 Zoom:



CRI: 97.0 97.9



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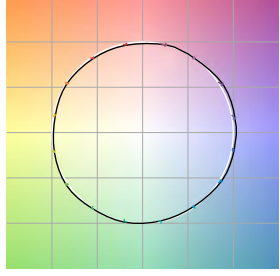
# RESOURCE – PHOTOMETRICS

SS\_TWH\_24v-4.4\_DRY\_24k



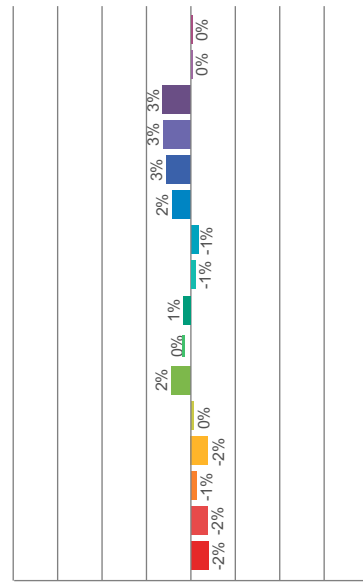
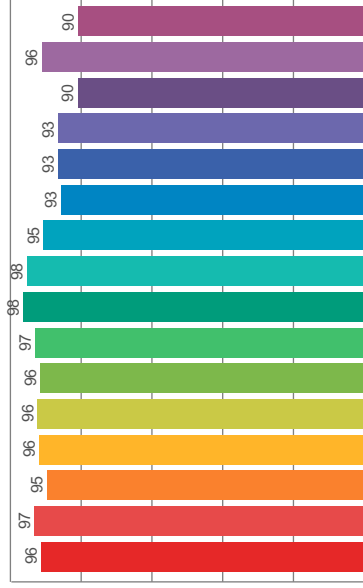
CRI R values, only R1-R8 are used to calculate final CRI value

Color Distortion

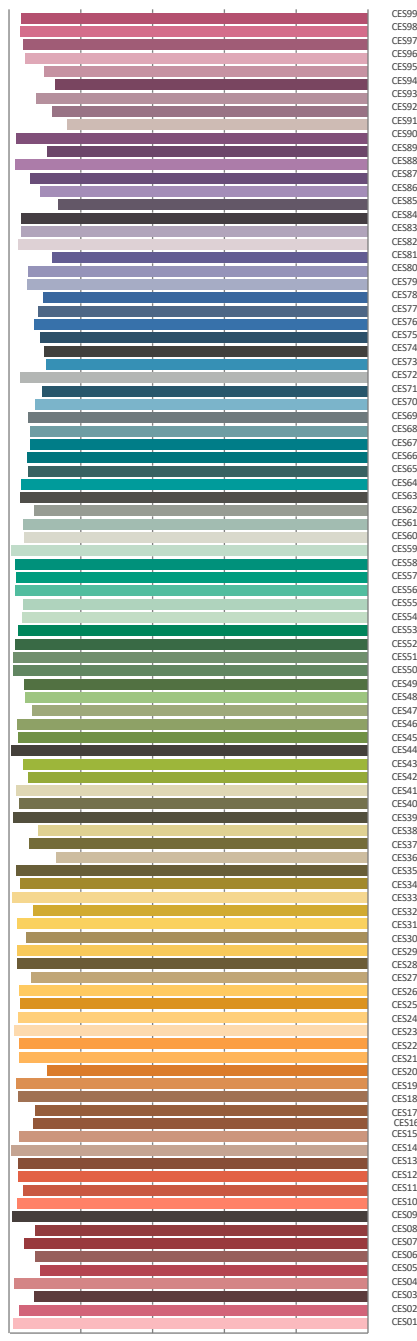



TM30 C values, 16 binned values out of total of 99 C values


Chroma Shift by Hue



Color Evaluation Sample



# RESOURCE – PHOTOMETRICS

SS\_TWH\_24v-4.4\_DRY\_35k



Light Efficiency:



Light Quality:



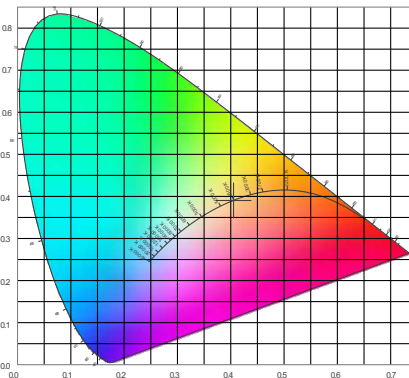
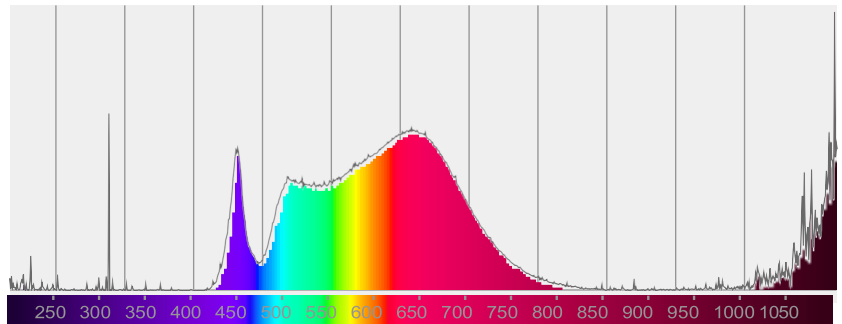
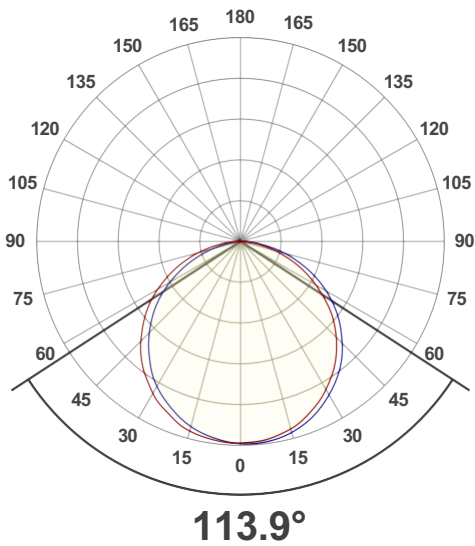
Color Temperature



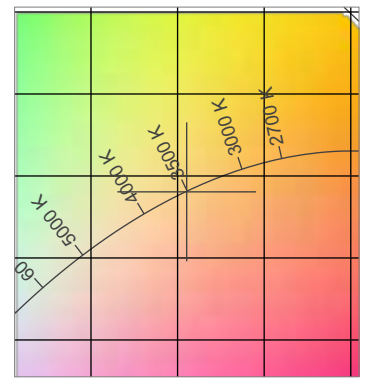
D : -

u':

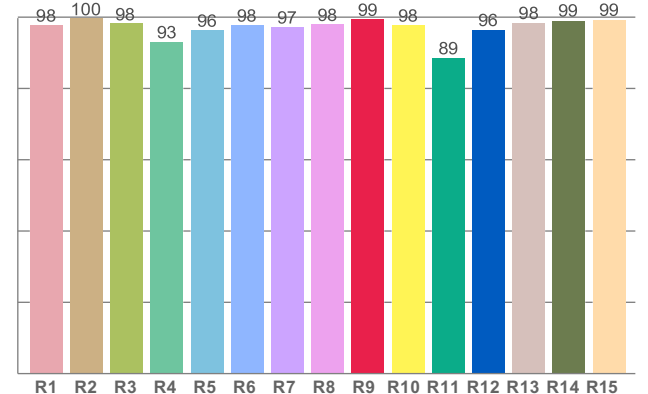
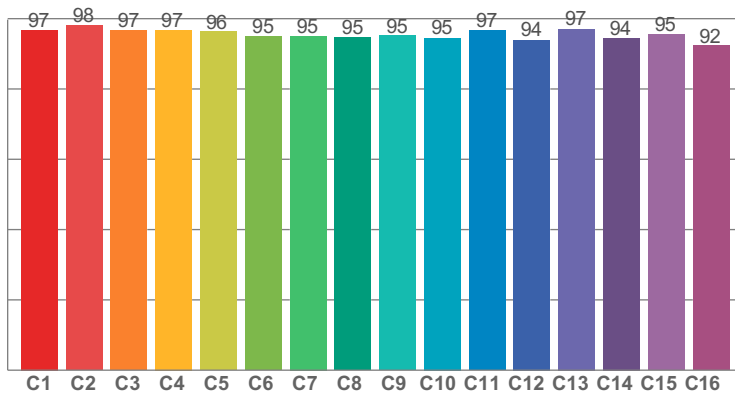
v':



CIE 1931 Zoom:



CRI: 97.3 97.8



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# RESOURCE – PHOTOMETRICS

SS\_TWH\_24v-6.0w\_DRY\_22+30k



Light Efficiency:



Light Quality:



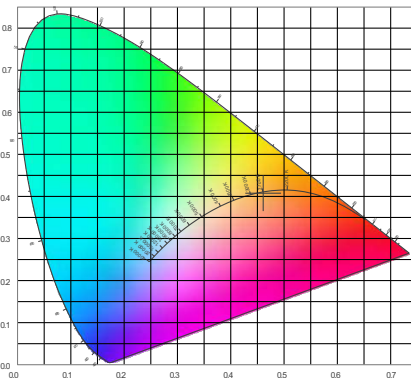
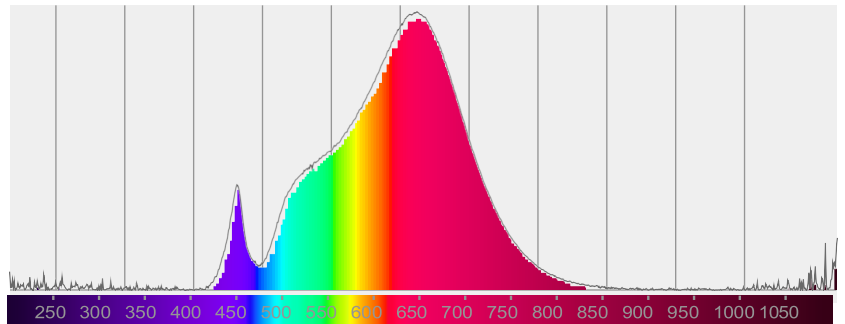
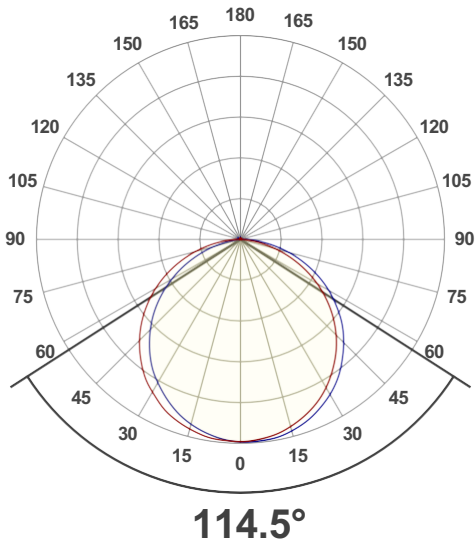
Color Temperature



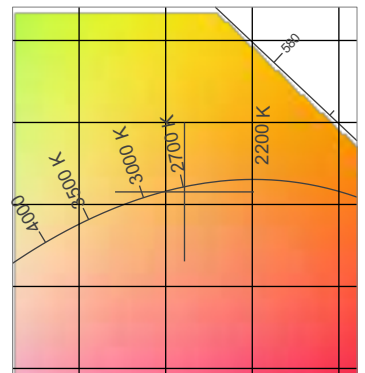
D : -

u':

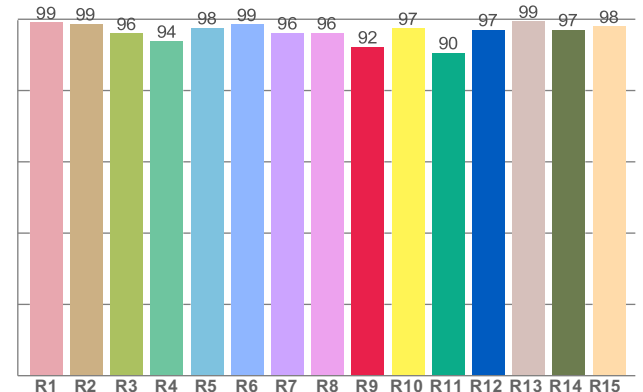
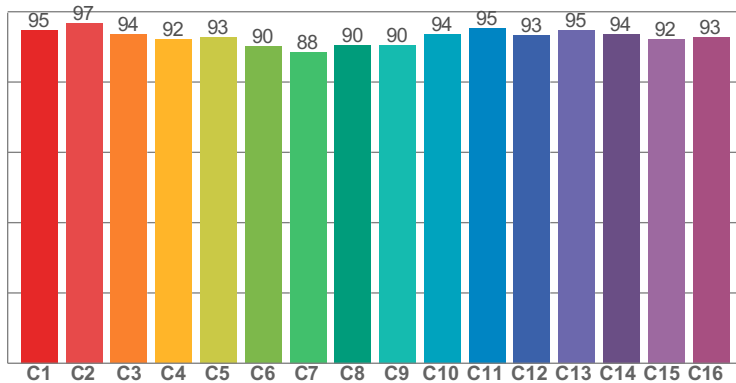
v':



CIE 1931 Zoom:



CRI: 97.0 99.2



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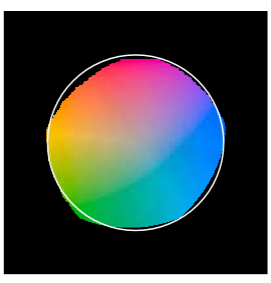
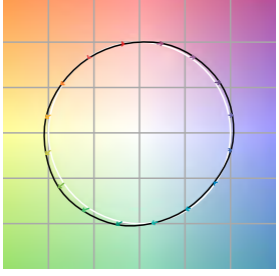
# RESOURCE – PHOTOMETRICS

SS\_TWH\_24v-6.0w\_DRY\_22+30k



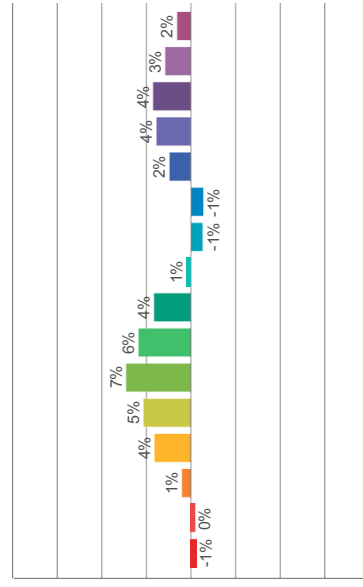
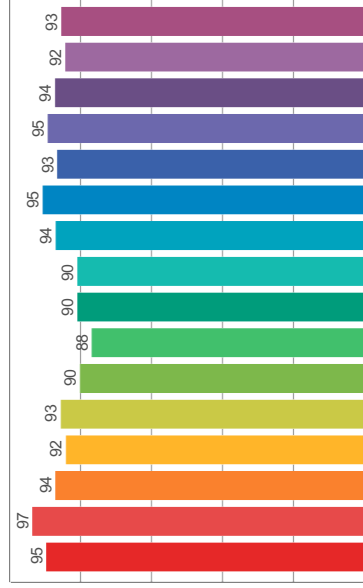
CRI R values, only R1-R8 are used to calculate final CRI value

Color Distortion

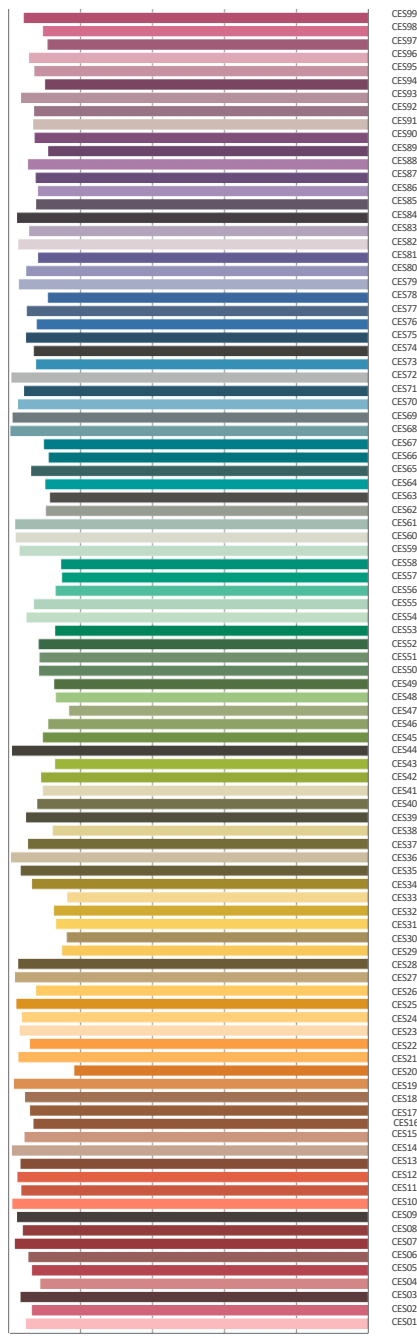



TM30 C values, 16 binned values out of total of 99 C values


Chroma Shift by Hue



Color Evaluation Sample



# RESOURCE – PHOTOMETRICS

SS\_TWH\_24v-6.0\_DRY\_22k



Light Efficiency:



Light Quality:



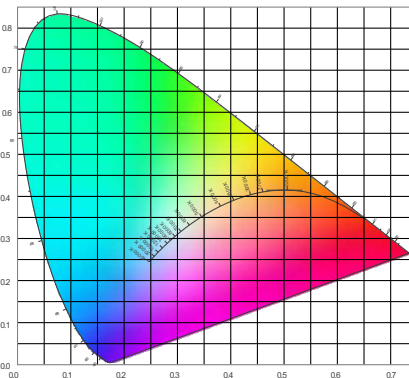
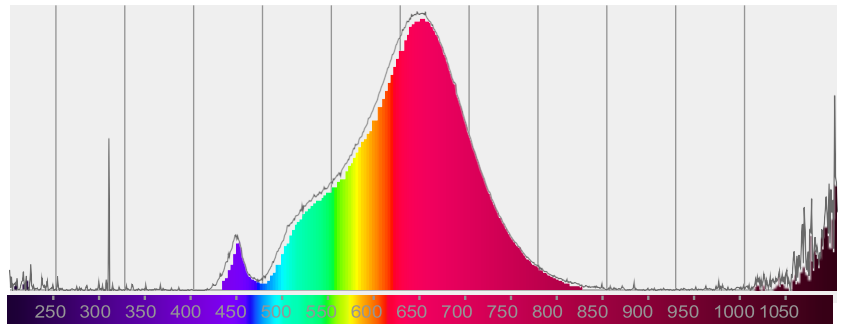
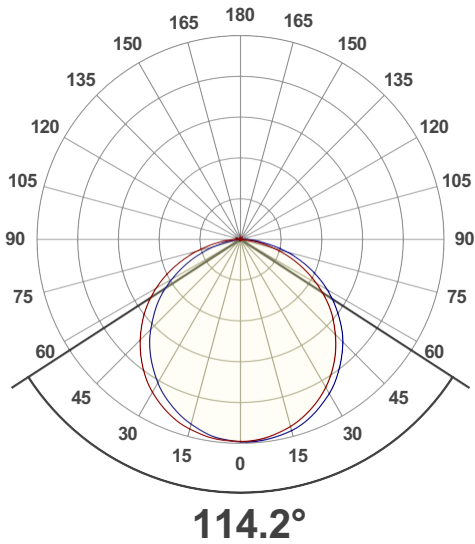
Color Temperature



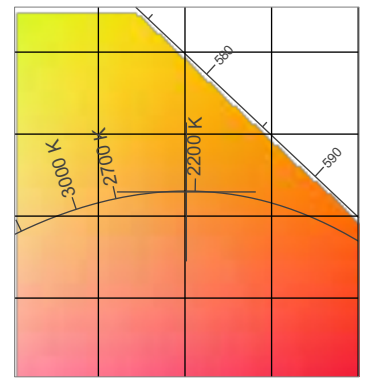
D : -

u':

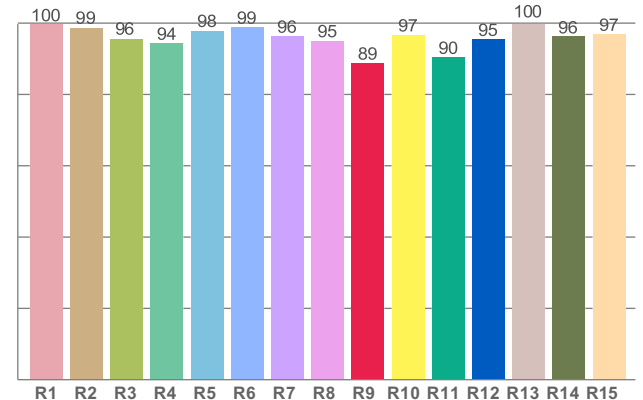
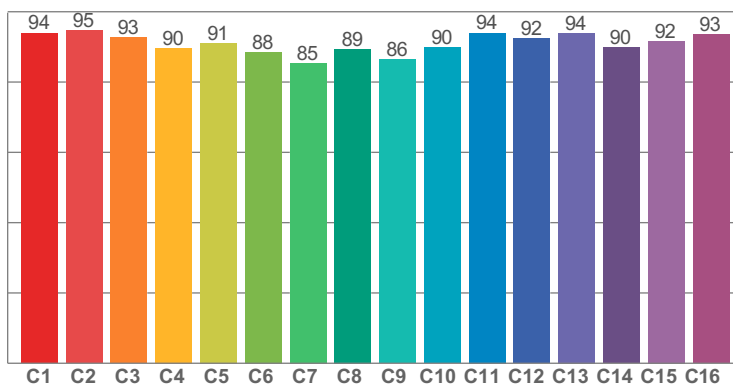
v':



CIE 1931 Zoom:



CRI: 97.0 99.6



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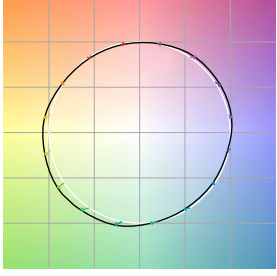
# RESOURCE – PHOTOMETRICS

SS\_TWH\_24v-6.0\_DRY\_22k



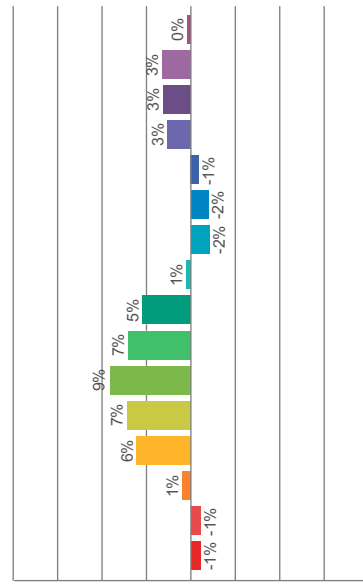
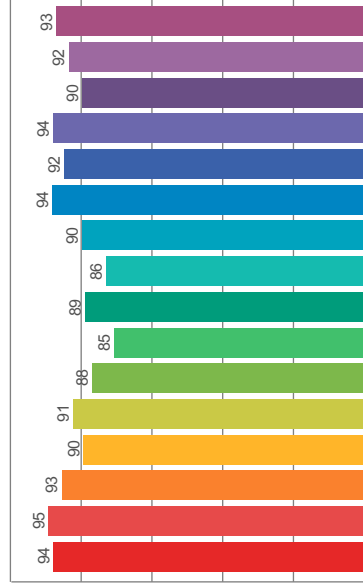
CRI R values, only R1-R8 are used to calculate final CRI value

Color Distortion

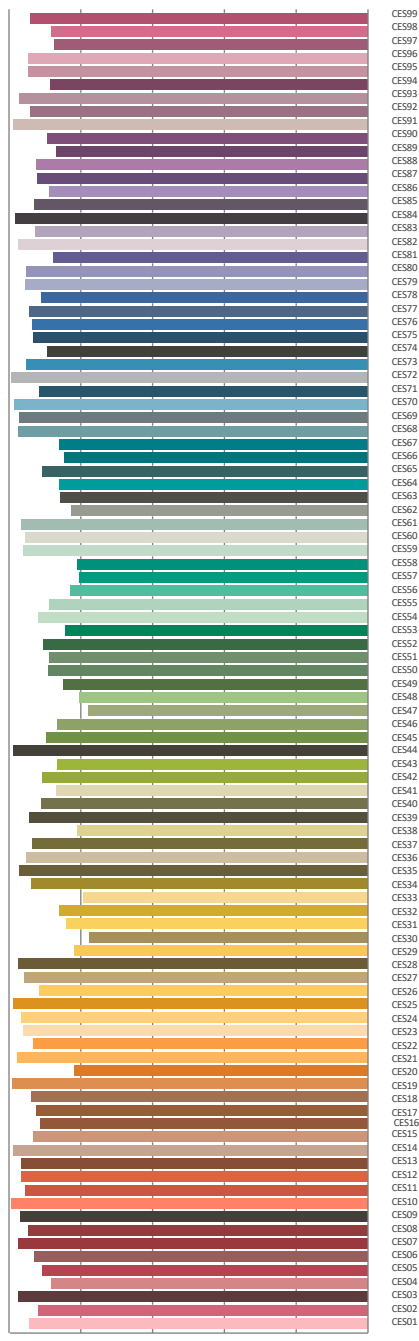



TM30 C values, 16 binned values out of total of 99 C values


Chroma Shift by Hue



Color Evaluation Sample





# RESOURCE – PHOTOMETRICS

SS\_TWH\_24v-6.0\_DRY\_30k



Light Efficiency:



Light Quality:



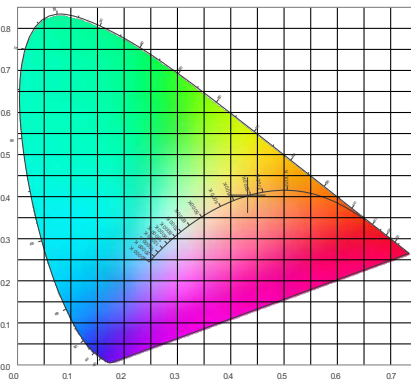
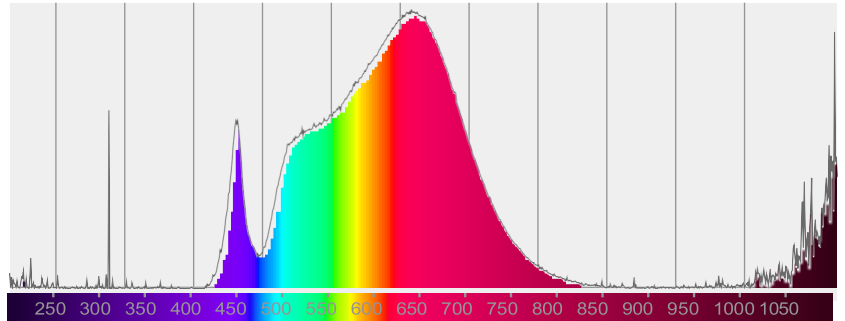
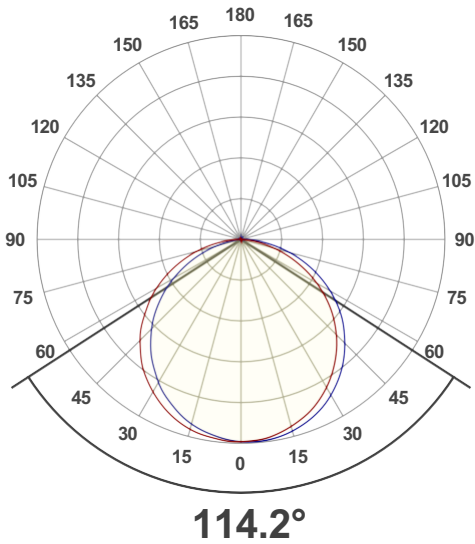
Color Temperature



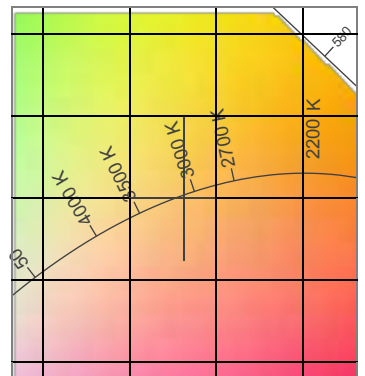
D :

u' :

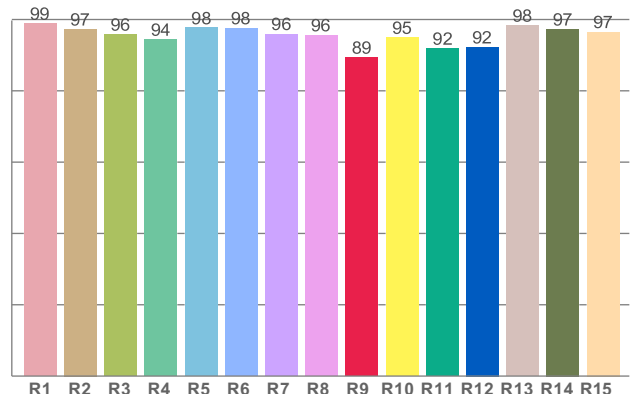
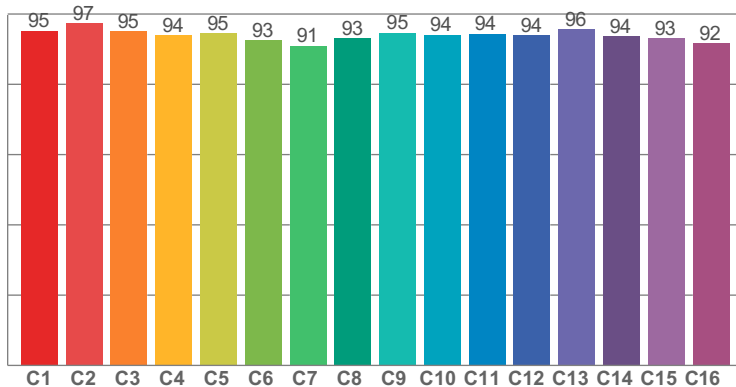
v' :



CIE 1931 Zoom:



CRI: 96.6 99.0



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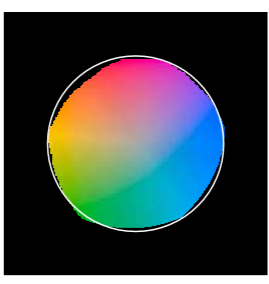
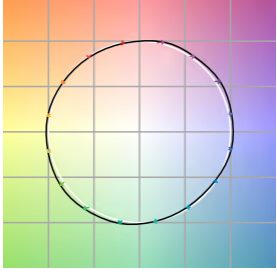
# RESOURCE – PHOTOMETRICS

SS\_TWH\_24v-6.0\_DRY\_30k



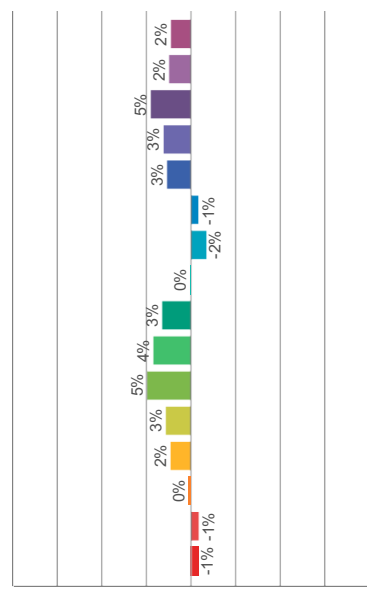
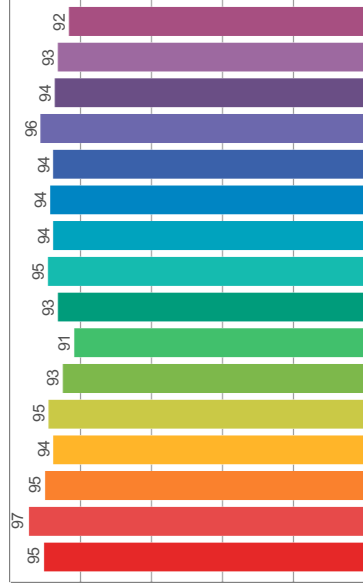
CRI R values, only R1-R8 are used to calculate final CRI value

Color Distortion

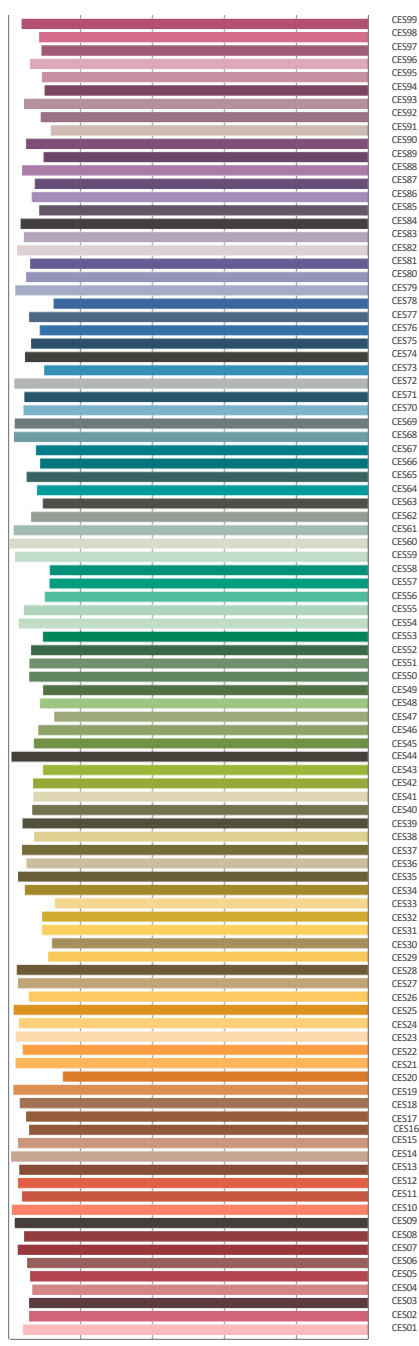



TM30 C values, 16 binned values out of total of 99 C values


Chroma Shift by Hue



Color Evaluation Sample



# RESOURCE – PHOTOMETRICS

SS\_TWH\_24v\_6.0\_DRY\_24+35k



Light Efficiency:



Light Quality:



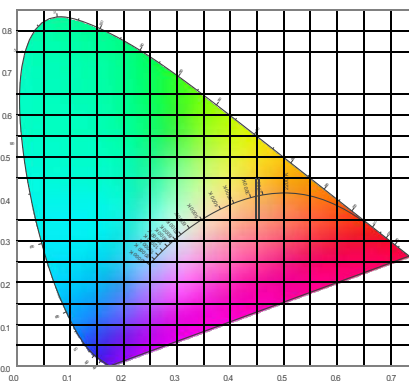
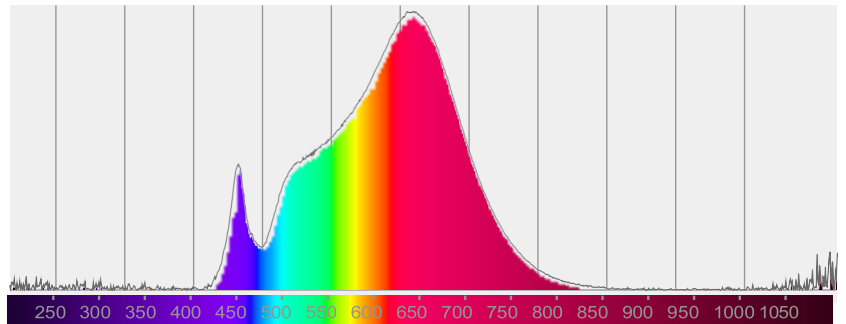
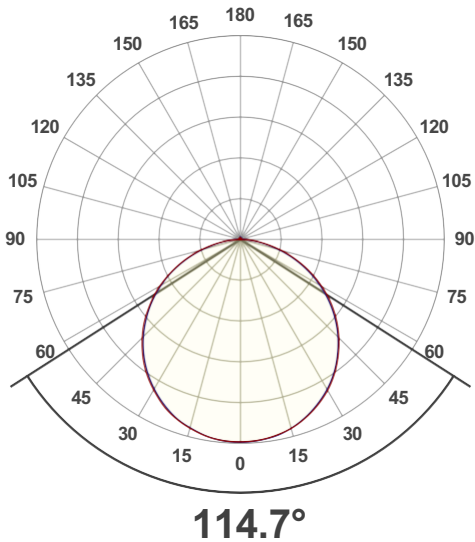
Color Temperature



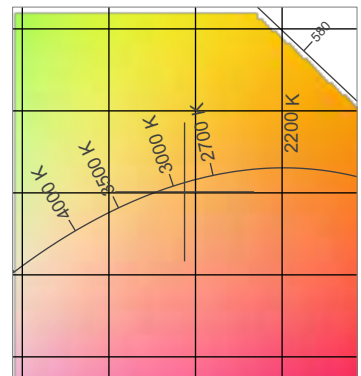
D : -

u':

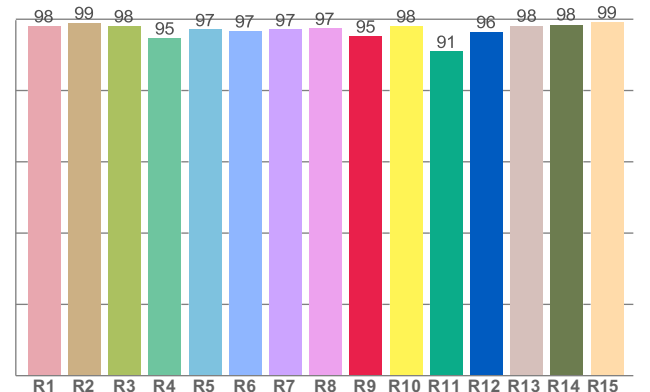
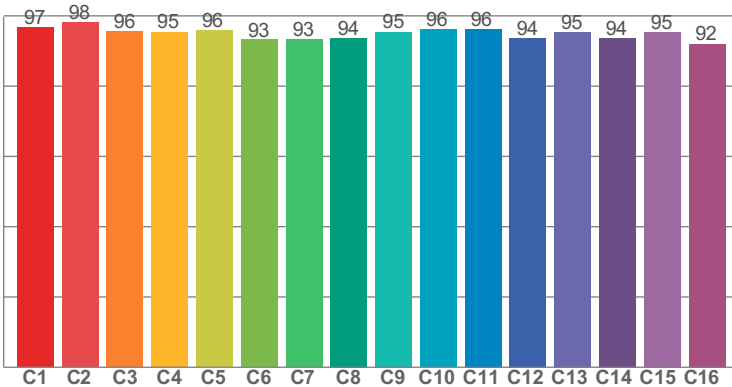
v':



CIE 1931 Zoom:



CRI: 97.3 98.0



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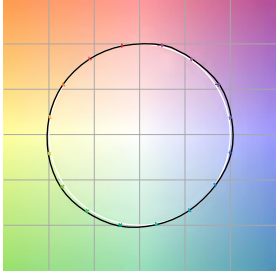
# RESOURCE – PHOTOMETRICS

SS\_TWH\_24v\_6.0\_DRY\_24+35k



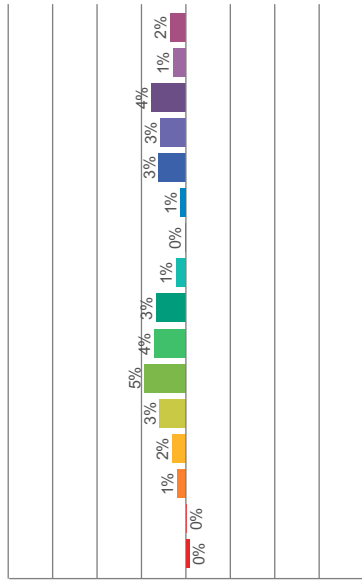
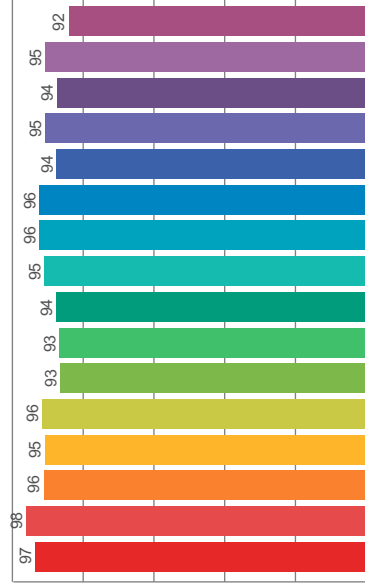
CRI R values, only R1-R8 are used to calculate final CRI value

Color Distortion

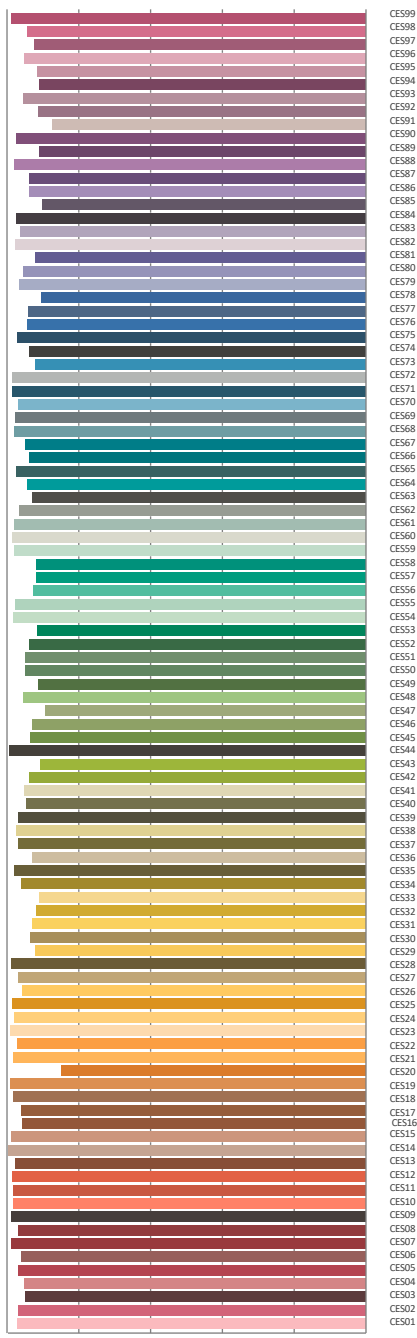



TM30 C values, 16 binned values out of total of 99 C values


Chroma Shift by Hue



Color Evaluation Sample



# RESOURCE – PHOTOMETRICS

SS\_TWH\_24v-6.0\_DRY\_24k



Light Efficiency:



Light Quality:



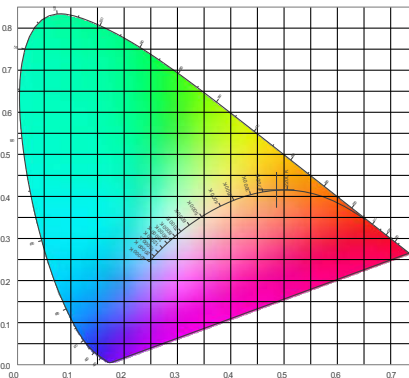
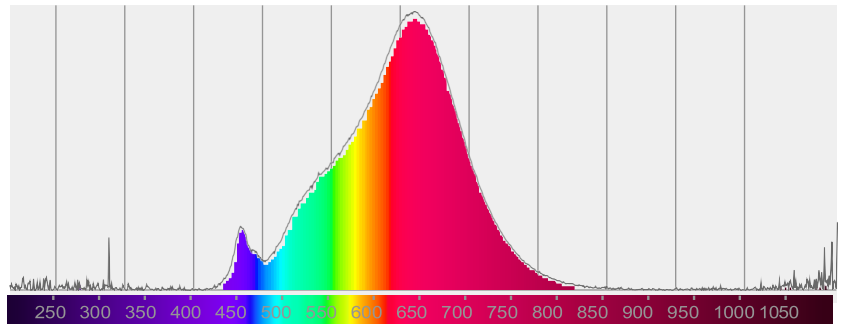
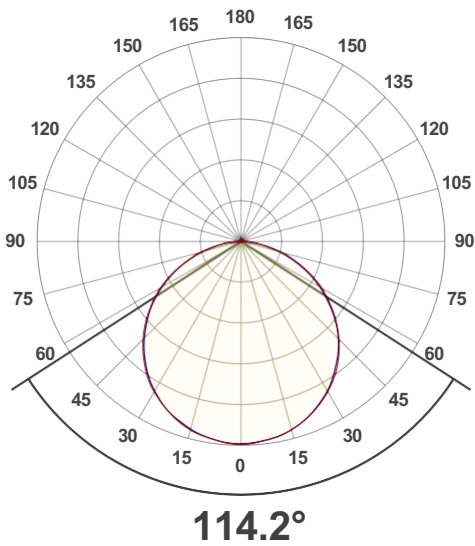
Color Temperature



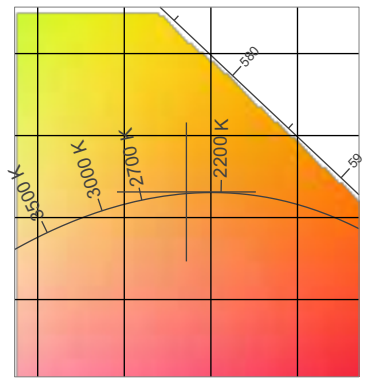
$D$  :

$u'$ :

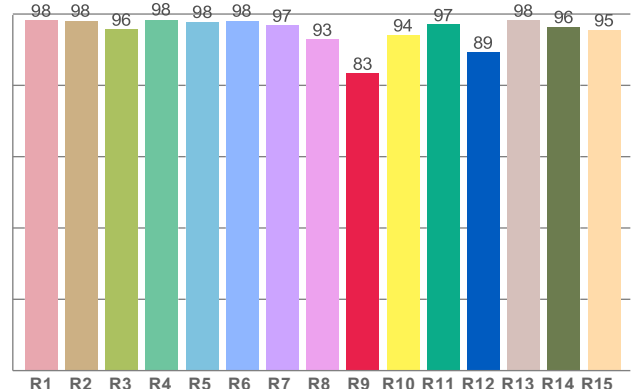
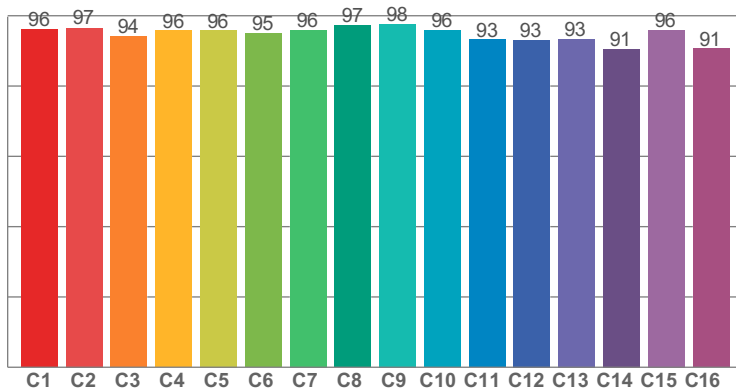
$v'$ :



CIE 1931 Zoom:



CRI: 97.0 98.2



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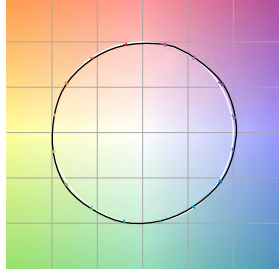
# RESOURCE – PHOTOMETRICS

SS\_TWH\_24v-6.0\_DRY\_24k



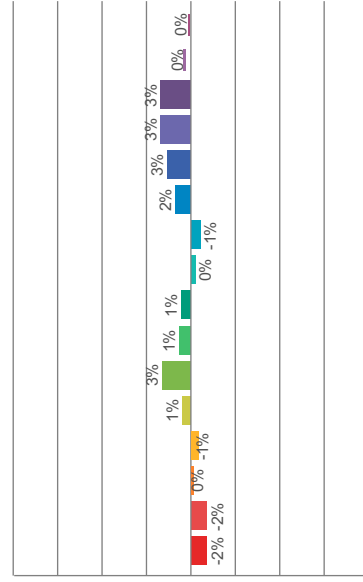
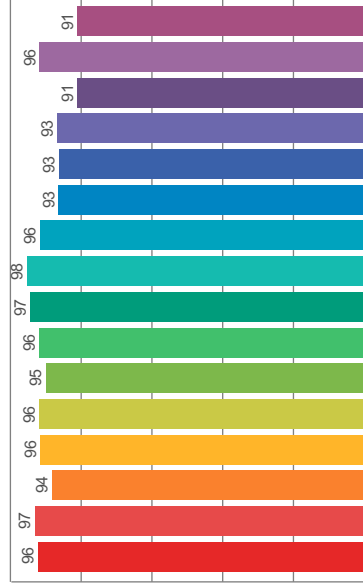
CRI R values, only R1-R8 are used to calculate final CRI value

Color Distortion

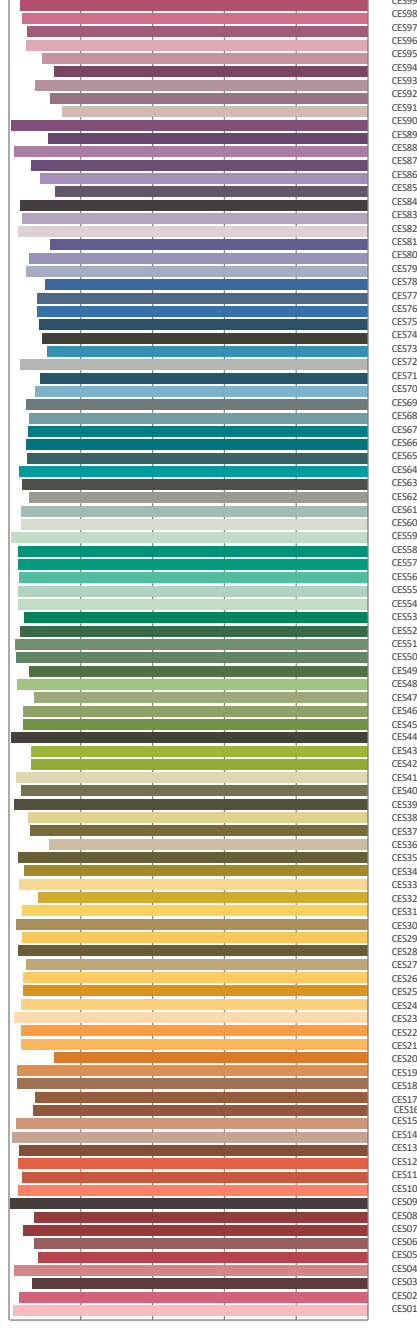



TM30 C values, 16 binned values out of total of 99 C values


Chroma Shift by Hue



Color Evaluation Sample



# RESOURCE – PHOTOMETRICS

SS\_TWH\_24v-6.0\_DRY\_35k



Light Efficiency:



Light Quality:



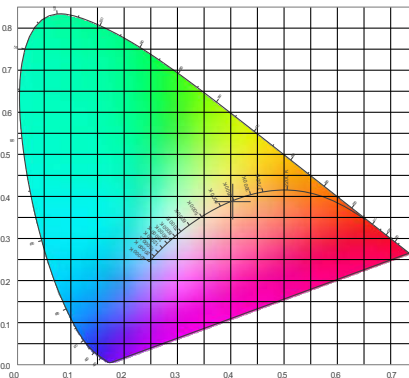
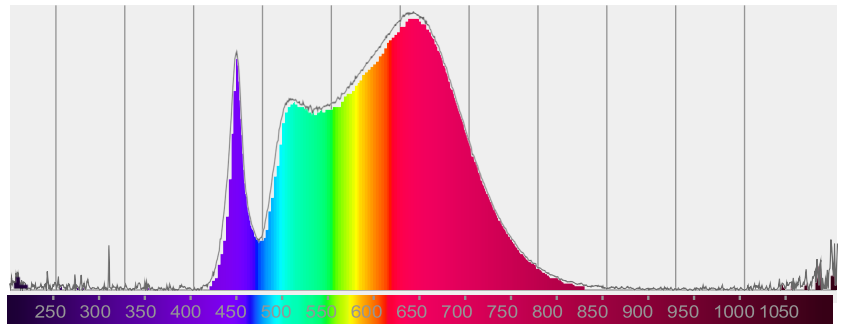
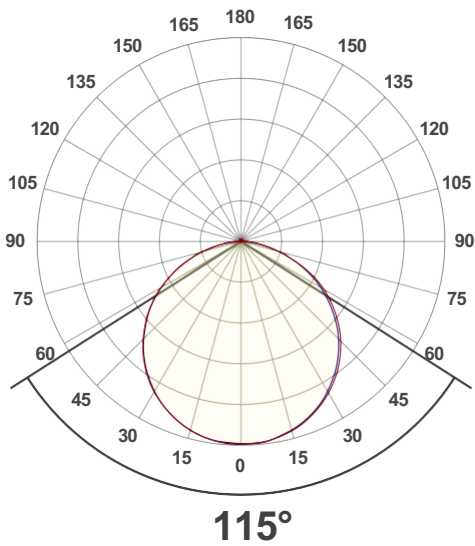
Color Temperature



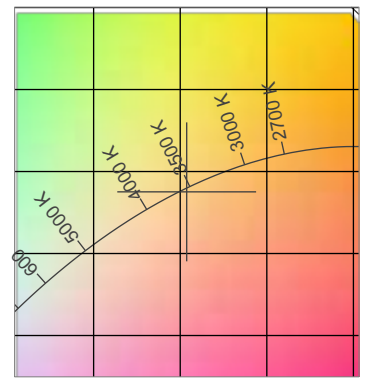
D : -

u':

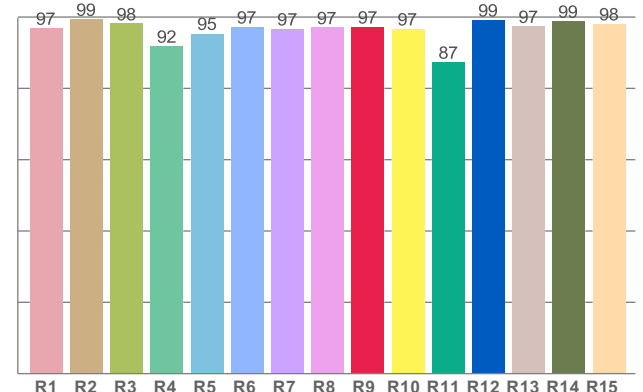
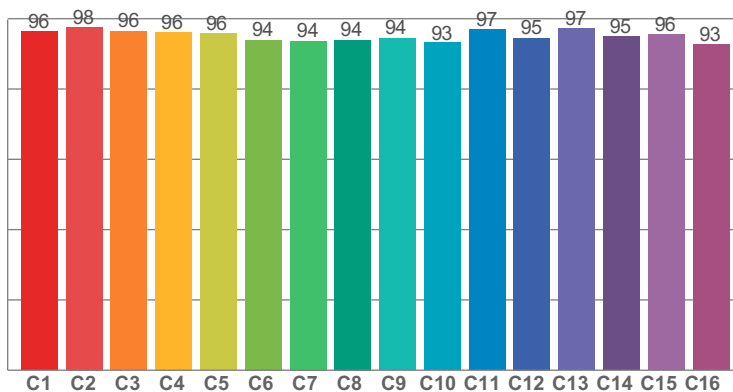
v':



CIE 1931 Zoom:



CRI: 96.5 96.8



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