

RESOURCE – PHOTOMETRICS

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



Light Efficiency:

53 Lumen/Watt

Output: 126 lm

Peak: 43.0 cd

Rg 104.7

Gamut index Rg

Light Quality:

CRI: 97.1

Power: 2.4 W

PF: 1.0

Rf 91.8

Fidelity index Rf

Color Temperature

2246 K

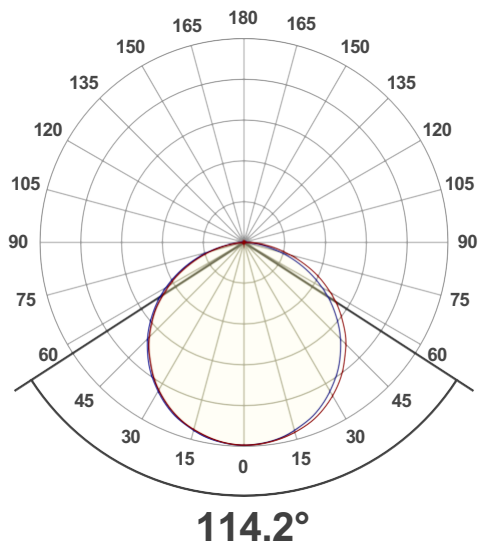
R9: 88.6

Duv: 0.0003

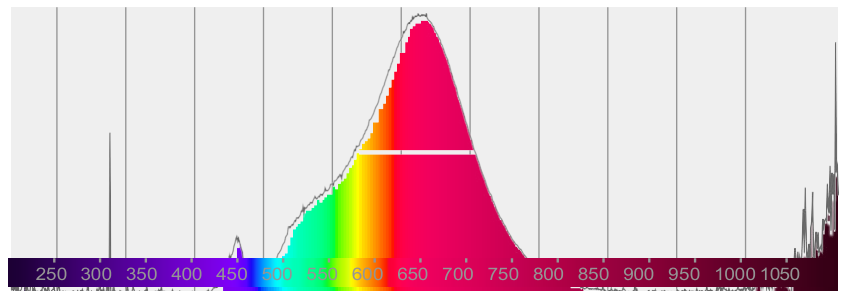
u': 0.287

v': 0.536

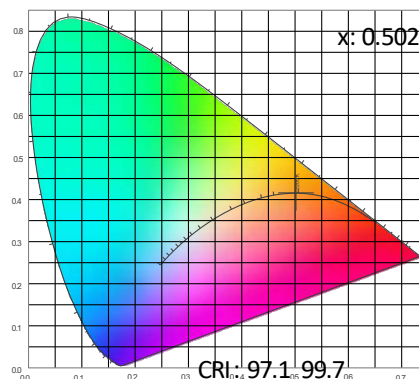
Beam Angle:



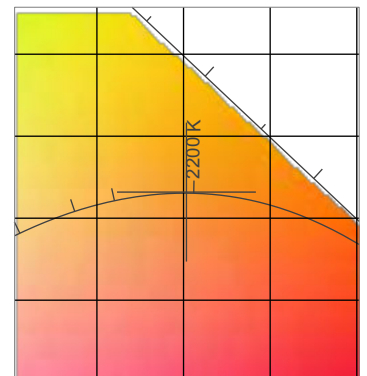
Spectra:



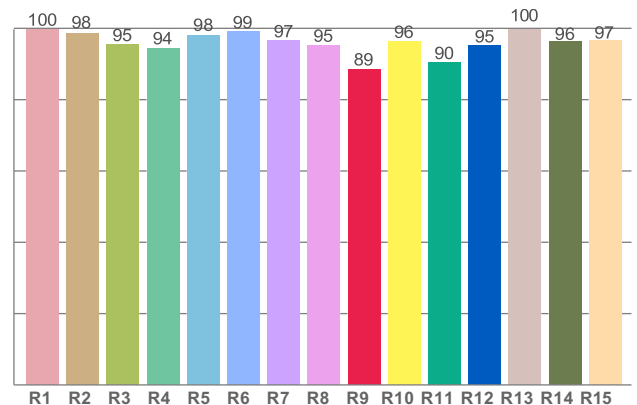
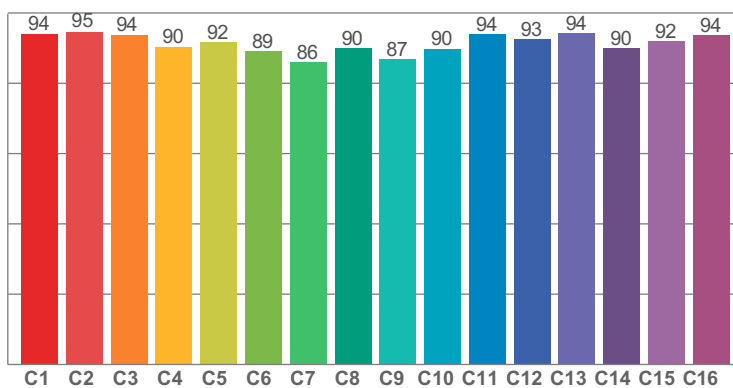
CIE 1931:



CIE 1931 Zoom:



TM30: 91.8



RESOURCE – PHOTOMETRICS

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

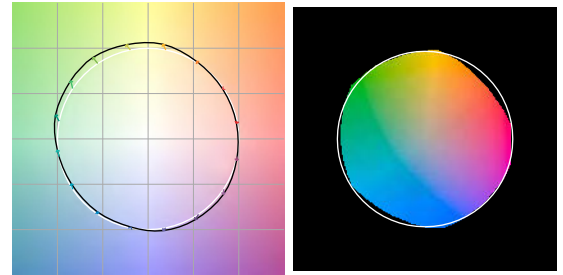


CRI R values, only R1-R8 are used to calculate final CRI value

Color Distortion

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

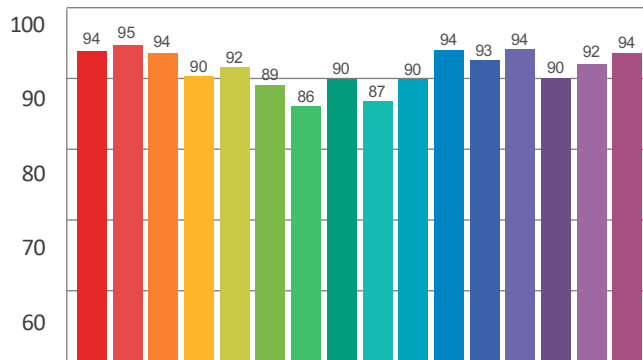
Color Vector



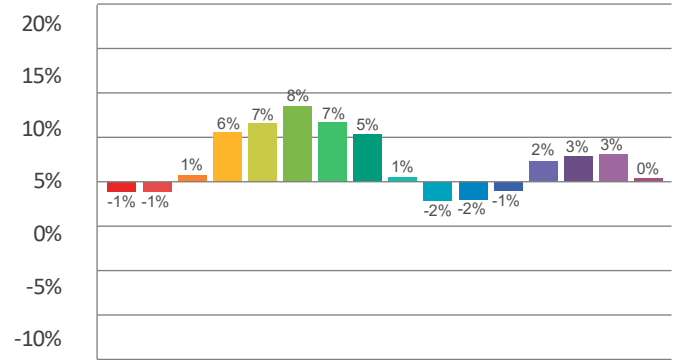
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
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

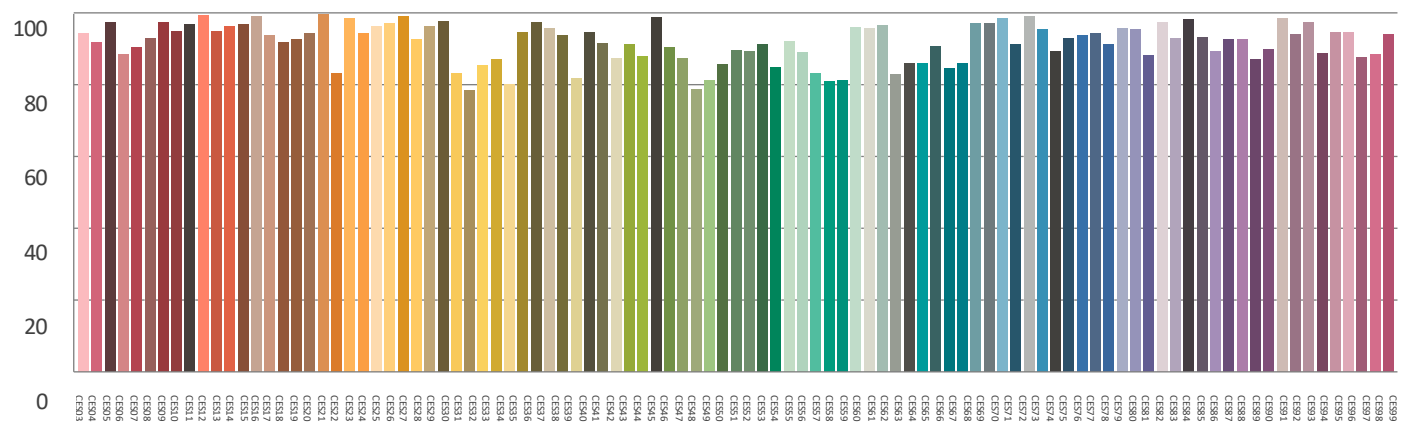
Rf by Hue



Chroma Shift by Hue



Color Evaluation Sample



RESOURCE – PHOTOMETRICS

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



Light Efficiency:

62 Lumen/Watt

Output: 150 lm

Peak: 51.2 cd

Rg 103.8

Gamut index Rg

Light Quality:

CRI: 96.9

Power: 2.4 W

PF: 1.0

Rf 94.4

Fidelity index Rf

Color Temperature

3066 K

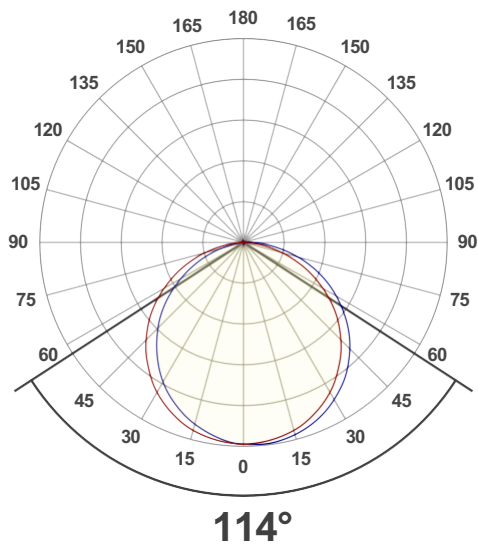
R9: 91.1

Duv: 0.0004

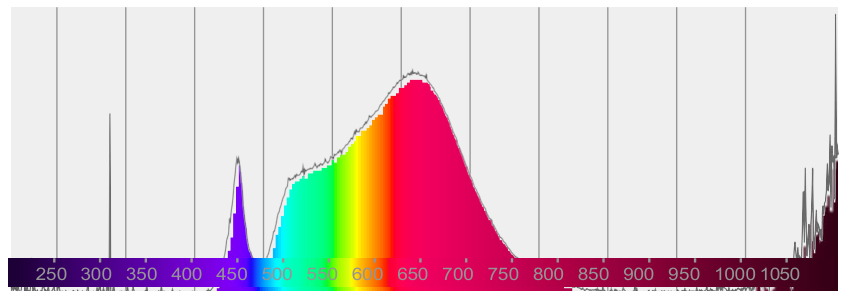
u': 0.248

v': 0.521

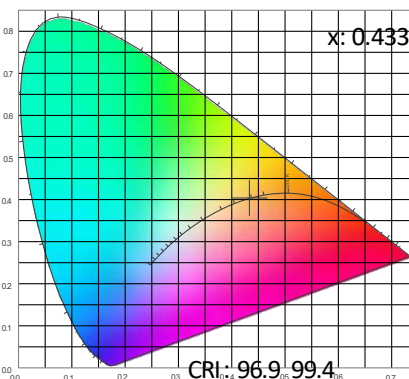
Beam Angle:



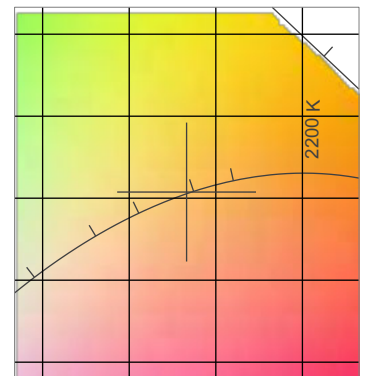
Spectra:



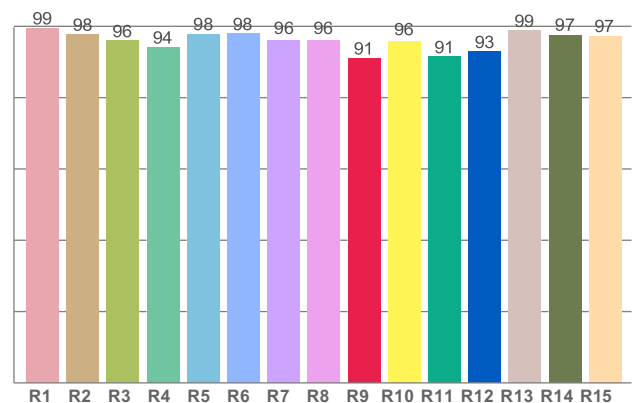
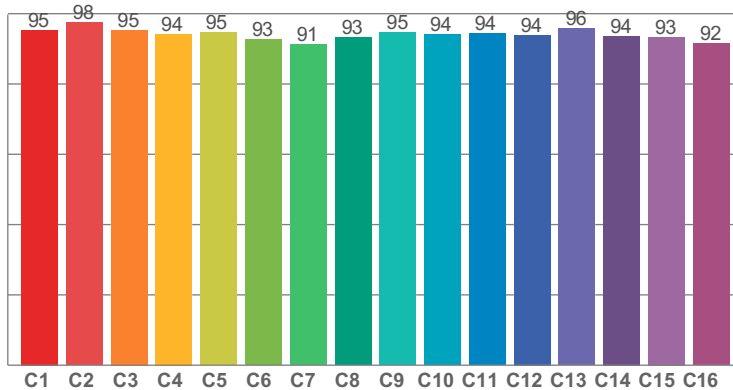
CIE 1931:



CIE 1931 Zoom:



TM30: 94.4



RESOURCE – PHOTOMETRICS

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

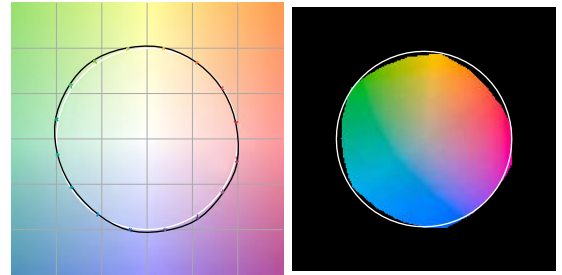


CRI R values, only R1-R8 are used to calculate final CRI value

Color Distortion

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

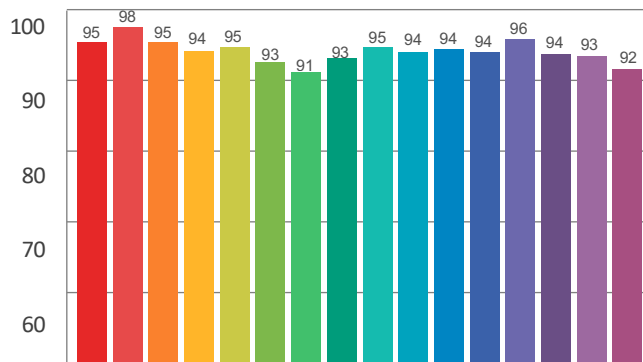
Color Vector



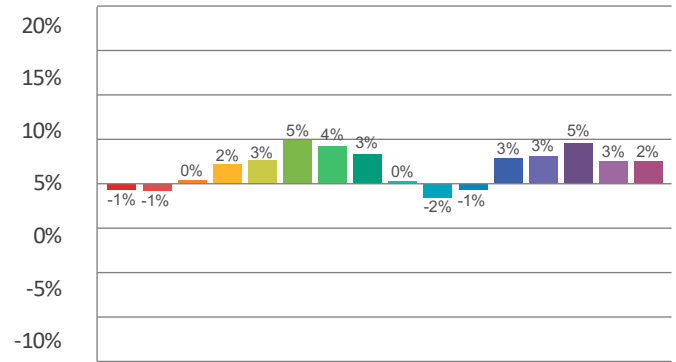
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
95.4	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

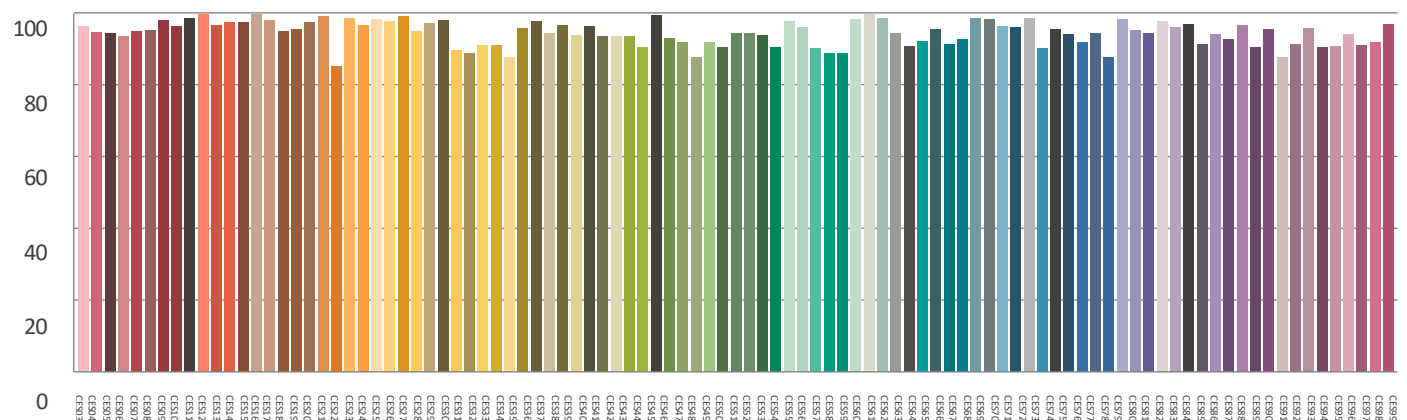
Rf by Hue



Chroma Shift by Hue



Color Evaluation Sample



RESOURCE – PHOTOMETRICS

SS_TWH_24v-4.4_DRY_24+35k



Light Efficiency:

63 Lumen/Watt

Light Quality:



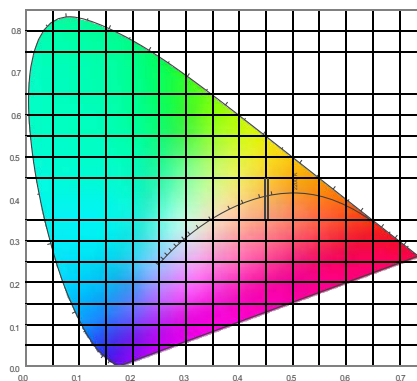
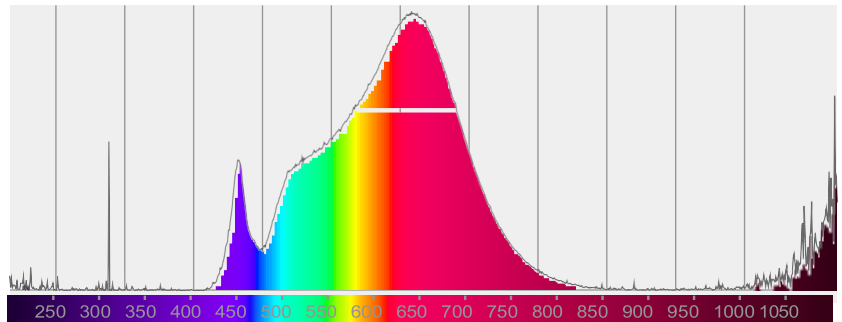
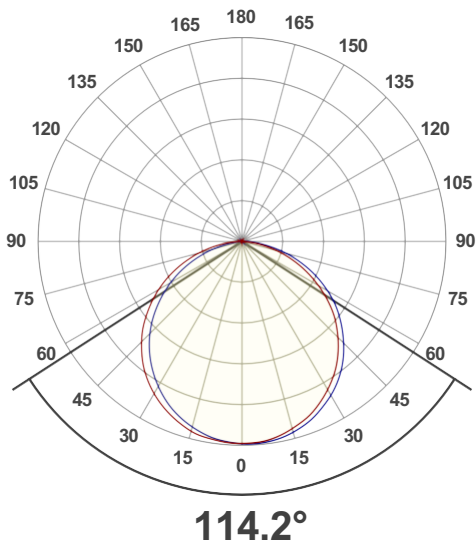
Color Temperature



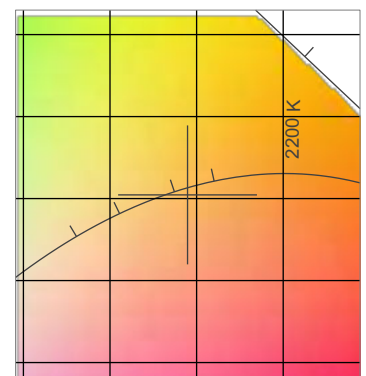
D : -

u' :

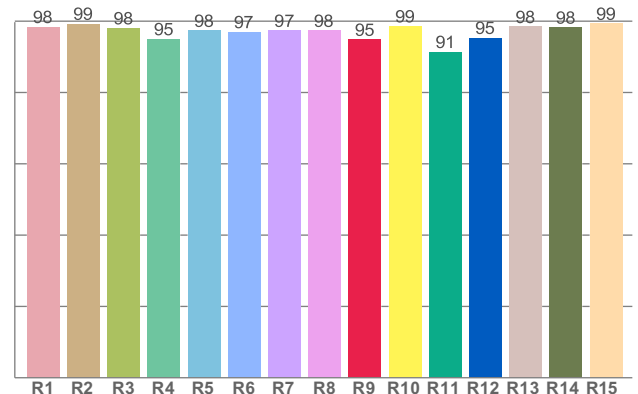
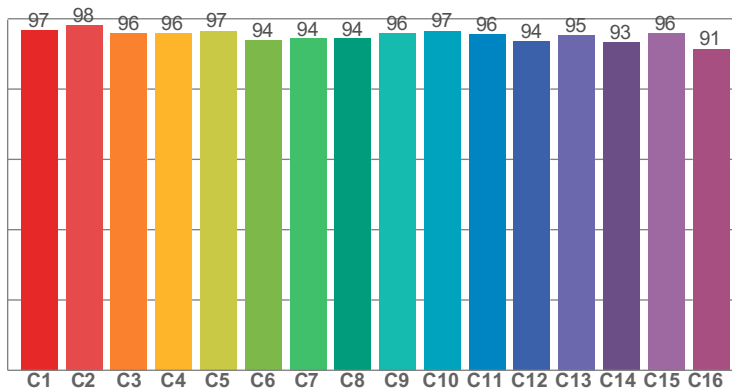
v' :



CIE 1931 Zoom:



CRI: 97.5 98.4



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PROJECT

FIXTURE

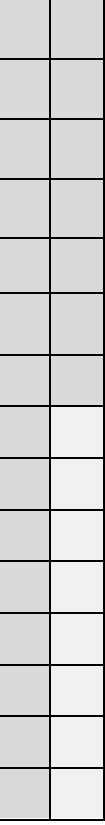
PHASE

DATE

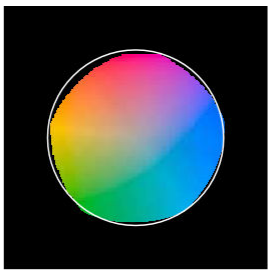
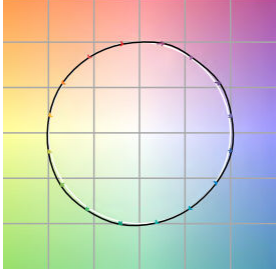
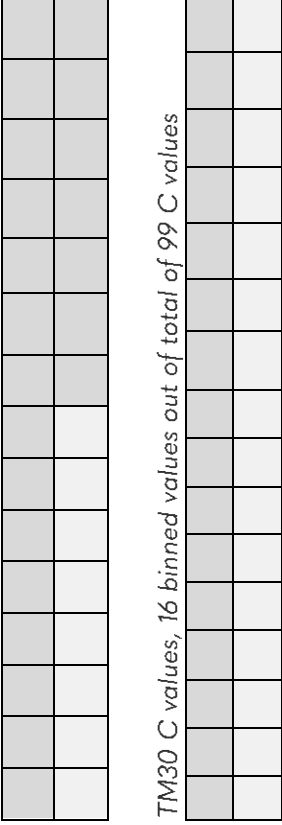
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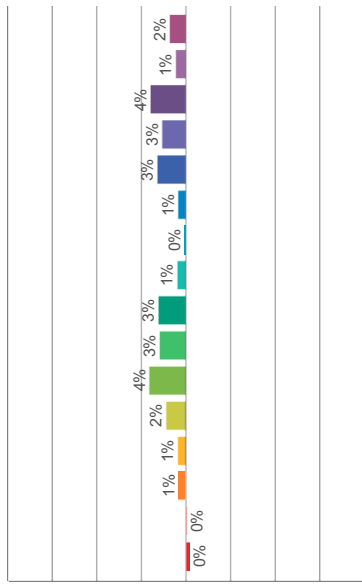
SS_TWH_24v-4.4_DRY_24+35k



Color Distortion



Country	Year	Percentage (%)
China	91	91
Russia	96	96
India	93	93
Brazil	95	95
South Africa	94	94
Mexico	96	96
U.K.	97	97
France	96	96
Germany	94	94
Italy	94	94
Spain	94	94
Japan	97	97
South Korea	96	96
Australia	96	96
Canada	98	98
U.S.	97	97



Category	Sub-category	Value	Color
C599	C599	100	Red
	C598	100	Red
	C597	100	Red
	C596	100	Red
	C595	100	Red
	C594	100	Red
	C593	100	Red
	C592	100	Red
	C591	100	Red
	C590	100	Red
C589	C589	100	Red
	C588	100	Red
	C587	100	Red
	C586	100	Red
	C585	100	Red
	C584	100	Red
	C583	100	Red
	C582	100	Red
	C581	100	Red
	C580	100	Red
C579	C579	100	Red
	C578	100	Red
	C577	100	Red
	C576	100	Red
	C575	100	Red
	C574	100	Red
	C573	100	Red
	C572	100	Red
	C571	100	Red
	C570	100	Red
C569	C569	100	Red
	C568	100	Red
	C567	100	Red
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C509	C509	100	Red
	C508	100	Red
	C507	100	Red
	C506	100	Red
	C505	100	Red
	C504	100	Red
	C503	100	Red
	C502	100	Red
	C501	100	Red

RESOURCE – PHOTOMETRICS

SS_TWH_24v-4.4_DRY_24k



Light Efficiency:

63 Lumen/Watt

Light Quality:



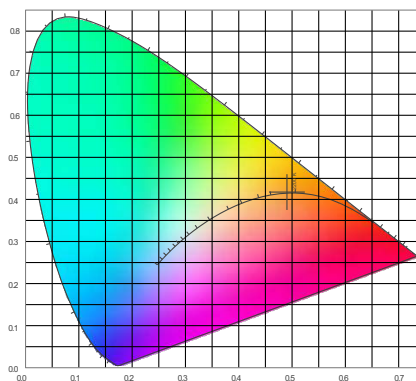
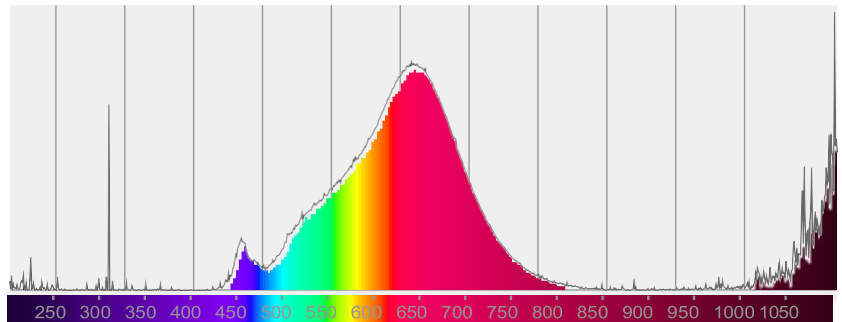
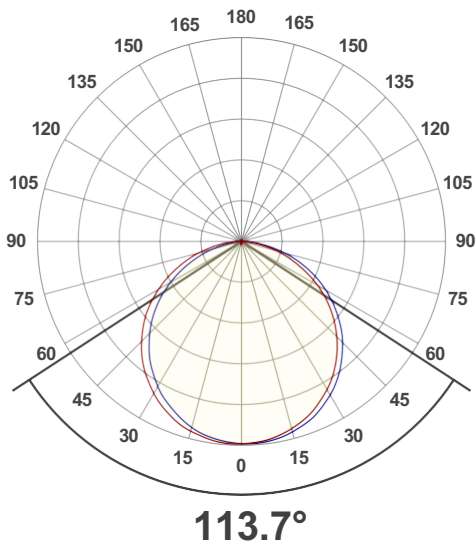
Color Temperature



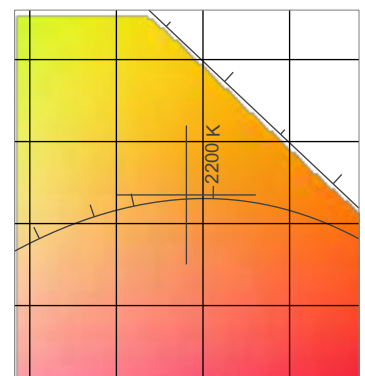
D :

u' :

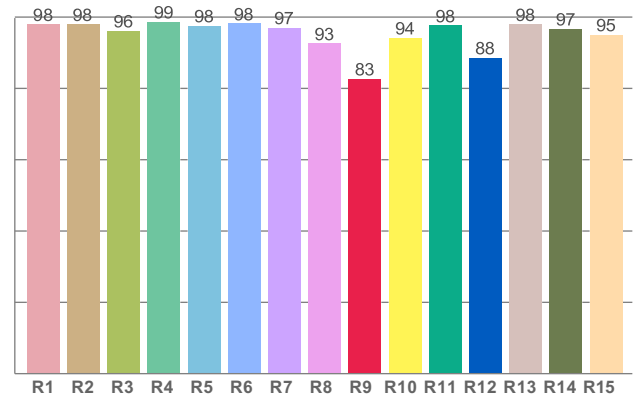
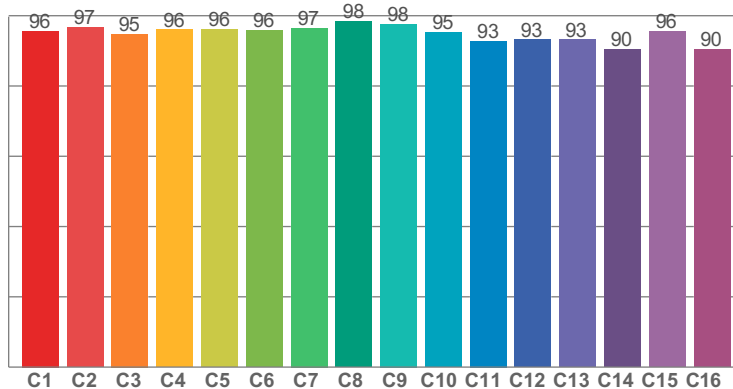
v' :



CIE 1931 Zoom:



CRI: 97.0 97.9



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PROJECT

FIXTURE

PHASE

DATE

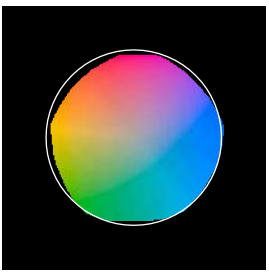
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SS_TWH_24v-4.4_DRY_24k

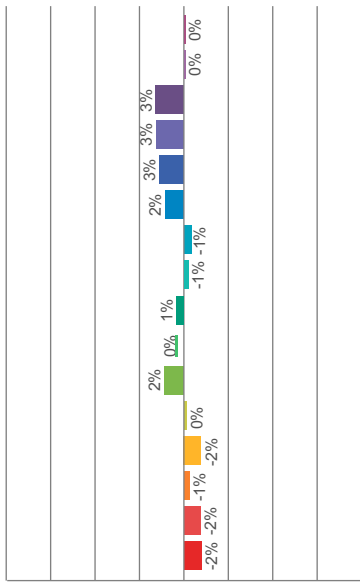


Color Distortion

[illegible][illegible]

A horizontal bar chart titled 'U.S. should take more action to protect the environment'. The y-axis lists age groups: 96, 97, 95, 96, 96, 96, 98, 95, 93, 93, 93, 90, 96, 90. The x-axis represents percentages from 0 to 100. The bars are color-coded by gender: red for men and purple for women. The data shows that across all age groups, a majority of respondents believe the U.S. should take more action to protect the environment, with women generally showing higher percentages than men in most age groups.

Age Group	Gender	Percentage (%)
96	Men	96
97	Men	97
95	Men	95
96	Men	96
96	Men	96
96	Men	96
98	Men	98
95	Men	95
93	Men	93
93	Men	93
93	Men	93
90	Men	90
96	Women	96
90	Women	90



Country	Year	Share of GDP
CES99	2000	0.0000
CES98	2000	0.0000
CES97	2000	0.0000
CES96	2000	0.0000
CES95	2000	0.0000
CES94	2000	0.0000
CES93	2000	0.0000
CES92	2000	0.0000
CES91	2000	0.0000
CES90	2000	0.0000
CES89	2000	0.0000
CES88	2000	0.0000
CES87	2000	0.0000
CES86	2000	0.0000
CES85	2000	0.0000
CES84	2000	0.0000
CES83	2000	0.0000
CES82	2000	0.0000
CES81	2000	0.0000
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CES78	2000	0.0000
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CES65	2000	0.0000
CES64	2000	0.0000
CES63	2000	0.0000
CES62	2000	0.0000
CES61	2000	0.0000
CES60	2000	0.0000
CES59	2000	0.0000
CES58	2000	0.0000
CES57	2000	0.0000
CES56	2000	0.0000
CES55	2000	0.0000
CES54	2000	0.0000
CES53	2000	0.0000
CES52	2000	0.0000
CES51	2000	0.0000
CES50	2000	0.0000
CES49	2000	0.0000
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CES46	2000	0.0000
CES45	2000	0.0000
CES44	2000	0.0000
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CES42	2000	0.0000
CES41	2000	0.0000
CES40	2000	0.0000
CES39	2000	0.0000
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CES31	2000	0.0000
CES30	2000	0.0000
CES29	2000	0.0000
CES28	2000	0.0000
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CES26	2000	0.0000
CES25	2000	0.0000
CES24	2000	0.0000
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CES22	2000	0.0000
CES21	2000	0.0000
CES20	2000	0.0000
CES19	2000	0.0000
CES18	2000	0.0000
CES17	2000	0.0000
CES16	2000	0.0000
CES15	2000	0.0000
CES14	2000	0.0000
CES13	2000	0.0000
CES12	2000	0.0000
CES11	2000	0.0000
CES10	2000	0.0000
CES09	2000	0.0000
CES08	2000	0.0000
CES07	2000	0.0000
CES06	2000	0.0000
CES05	2000	0.0000
CES04	2000	0.0000
CES03	2000	0.0000
CES02	2000	0.0000
CES01	2000	0.0000

RESOURCE – PHOTOMETRICS

SS_TWH_24v-4.4_DRY_35k



Light Efficiency:

65 Lumen/Watt

Light Quality:



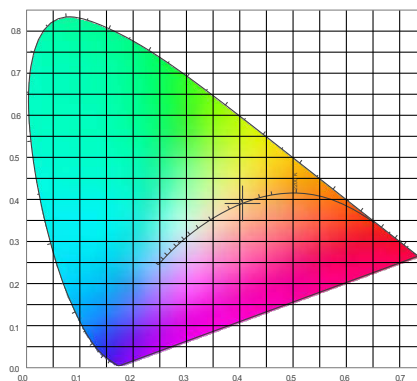
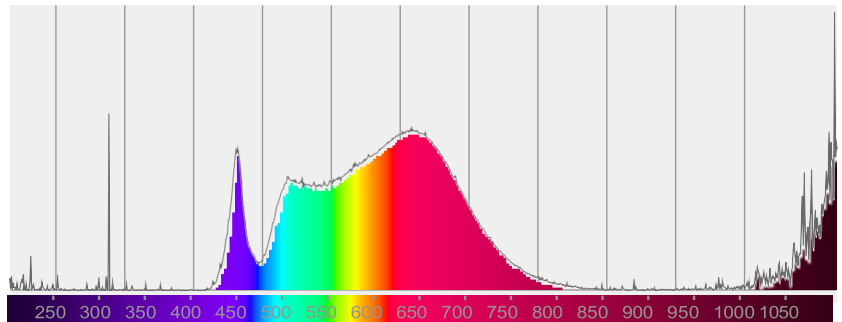
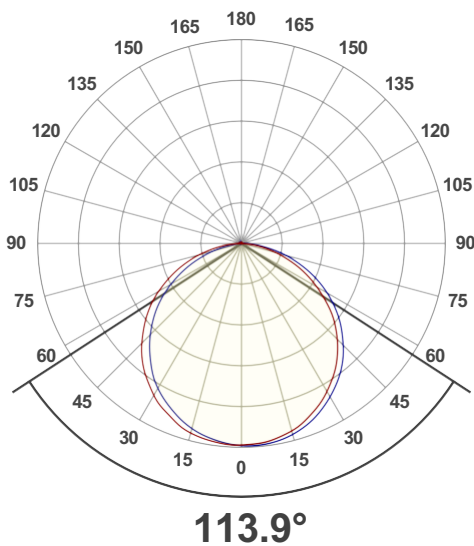
Color Temperature



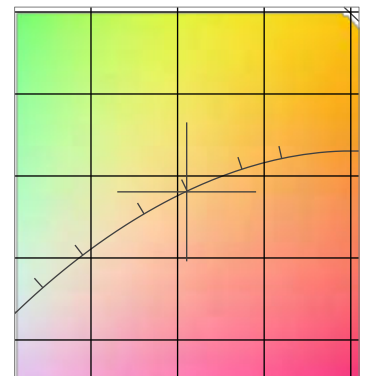
D : -

u' :

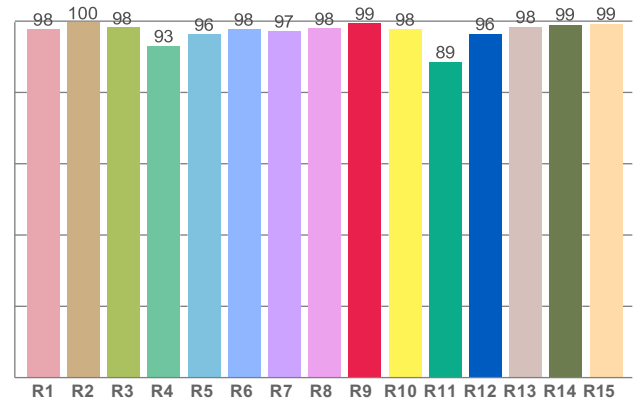
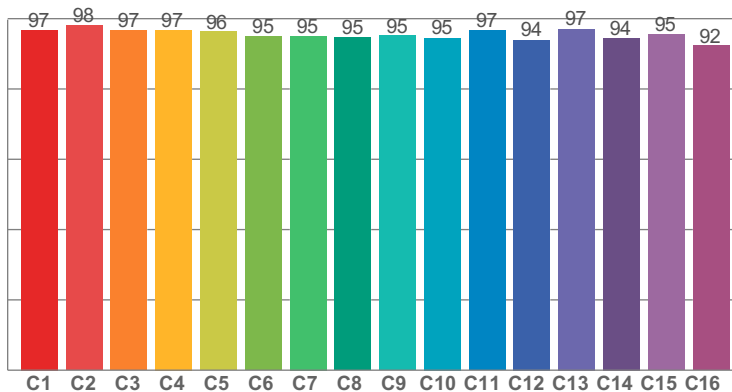
v' :



CIE 1931 Zoom:



CRI: 97.3 97.8



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PROJECT

FIXTURE

PHASE

DATE

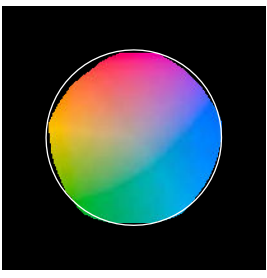
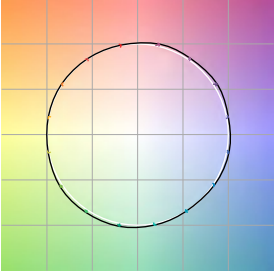
800.595.6302

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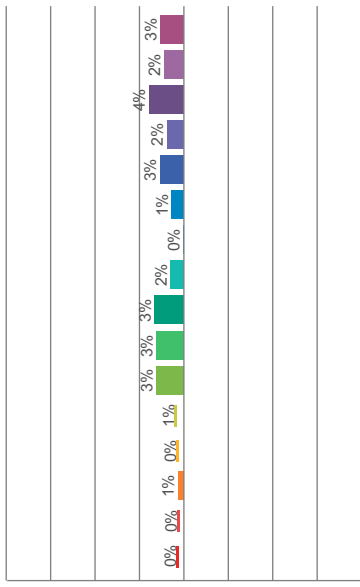
SS_TWH_24v-4.4_DRY_35k



Color Distortion

[illegible][illegible]

Age Group	Percentage of respondents who believe the U.S. is responsible for the 9/11 attacks
18-29	97
30-39	98
40-49	97
50-59	97
60-69	92
70+	95



CE	Publications
CE599	1
CE598	1
CE597	1
CE596	1
CE595	1
CE594	1
CE593	1
CE592	1
CE591	1
CE590	1
CE589	1
CE588	1
CE587	1
CE586	1
CE585	1
CE584	1
CE583	1
CE581	1
CE580	1
CE579	1
CE578	1
CE577	1
CE576	1
CE575	1
CE574	1
CE573	1
CE572	1
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