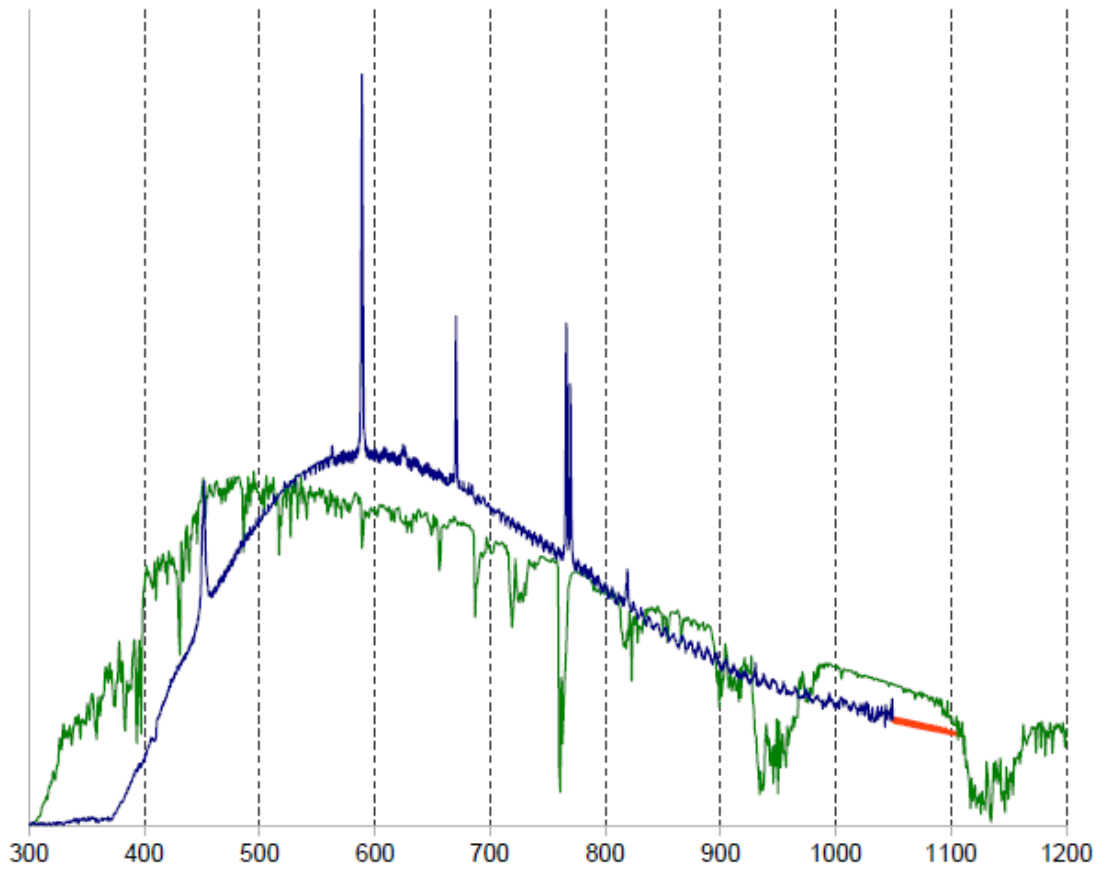




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# Bulb M21 at 800W

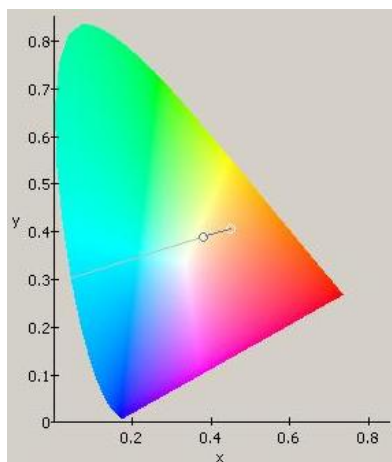


— Normalized measured spectrum — AM 1.5 Spectral irradiance normalized (400-1100nm)  
 — Polynomial extrapolation

Wavelength range	AM1.5 ratio	Spectrum ratio	Mismatch	Class
400-500 nm	18.4	11.0	0.60	C
500-600 nm	19.91	21.1	1.06	A
600-700 nm	18.36	21.5	1.17	A
700-800 nm	14.92	17.9	1.20	A
800-900 nm	12.46	12.6	1.01	A
900-1100 nm	15.94	16.1	1.01	A

Class A	Class B	Class C
0.75	0.60	0.40
1.25	1.40	2.00

## Lighting characteristics



**Color temperature = 4100 K**

**Color Render Index = 93.5 [-]**

**Colors coordinate: x = 0.379 y = 0.390**

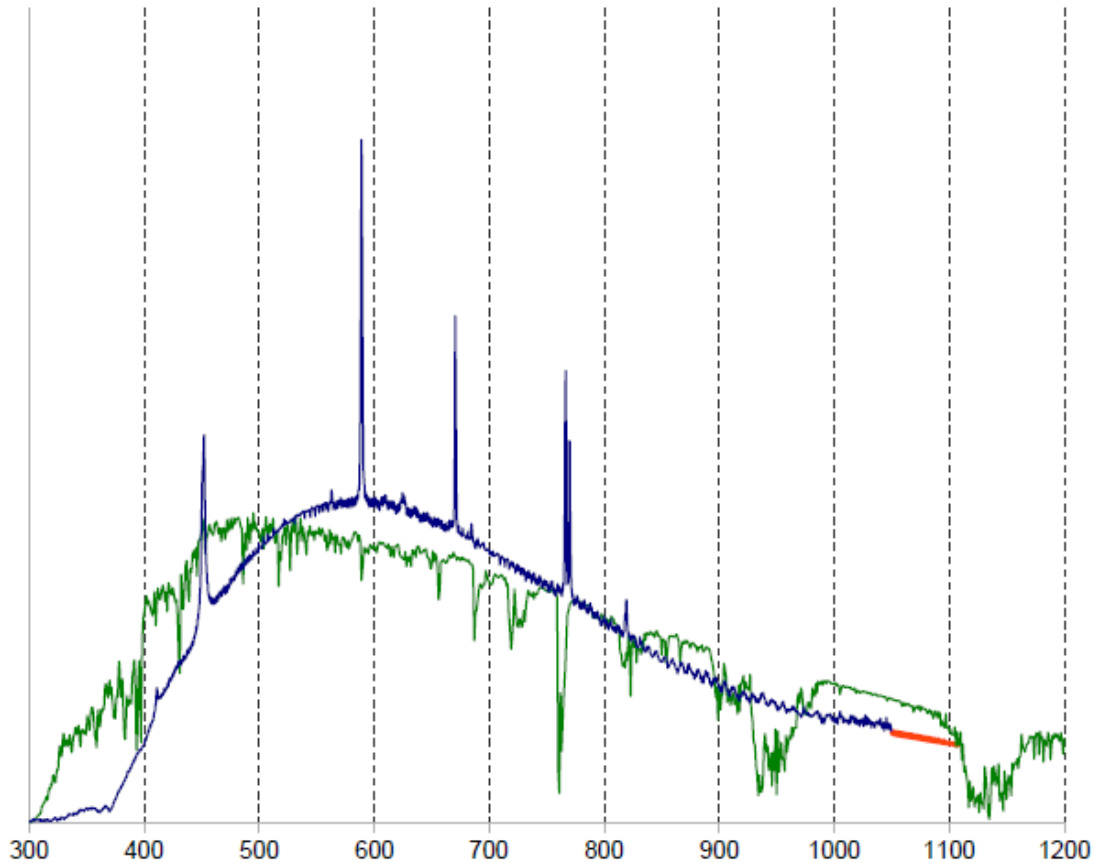
**Reference Cell Isc: 14 [mA]**

- This information is indicative, following the manufacturing batch, the parameters may change slightly.
- Reference Cell Isc measurement it's performed at 50cm with a reproducible setup. Use this value for compare the relative energetic performance between the bulbs.



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# Bulb M21 at 1000W

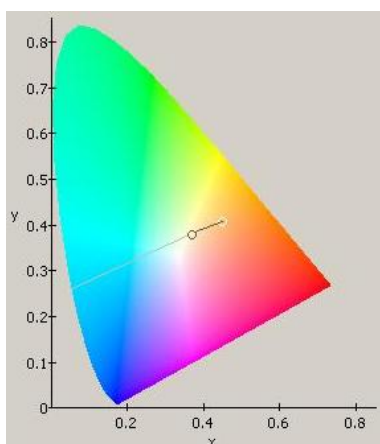


— Normalized measured spectrum — AM 1.5 Spectral irradiance normalized (400-1100nm)  
 — Polynomial extrapolation

Wavelength range	AM1.5 ratio	Spectrum ratio	Mismatch	Class
400-500 nm	18.4	12.4	0.67	B
500-600 nm	19.91	21.2	1.06	A
600-700 nm	18.36	21.2	1.15	A
700-800 nm	14.92	17.4	1.17	A
800-900 nm	12.46	12.2	0.98	A
900-1100 nm	15.94	15.7	0.98	A

Class A	Class B	Class C
0.75	0.60	0.40
1.25	1.40	2.00

## Lighting characteristics



**Color temperature = 4300 K**

**Color Render Index = 94.5 [-]**

**Colors coordinate: x = 0.369 y = 0.378**

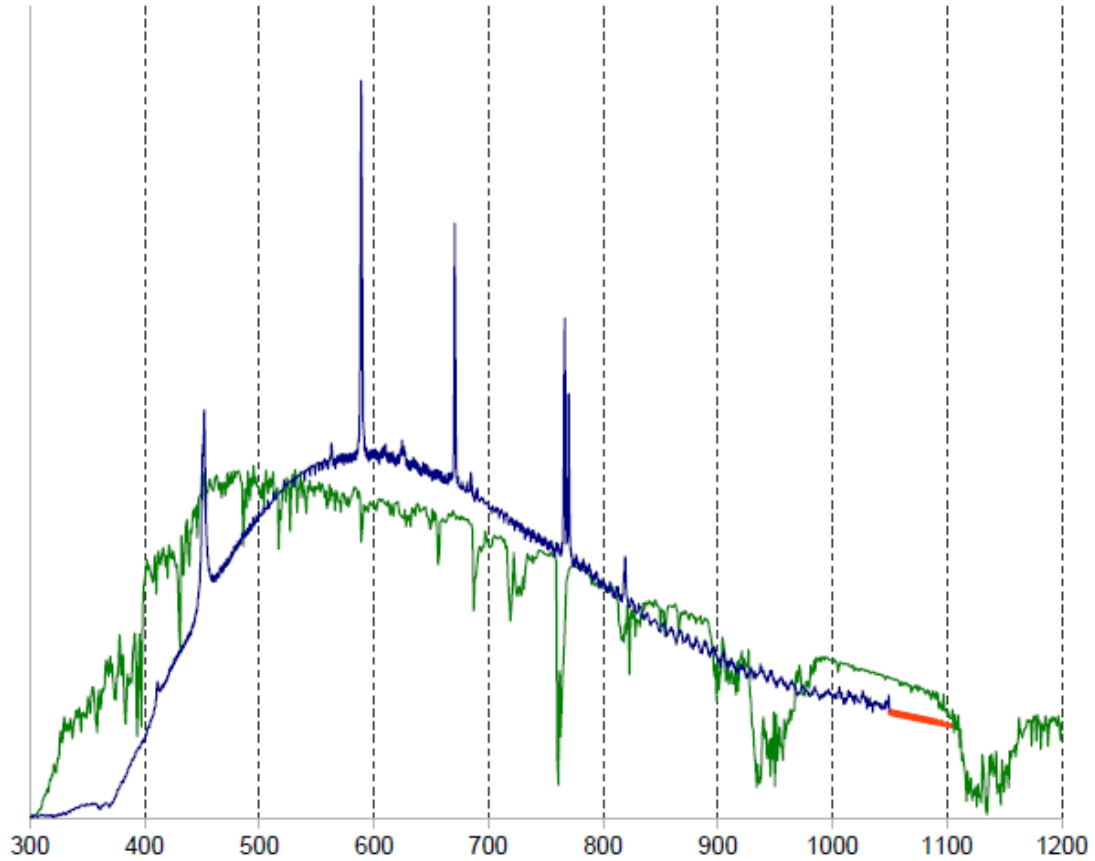
**Reference Cell Isc: 16.1 [mA]**

- This information is indicative, following the manufacturing batch, the parameters may change slightly.
- Reference Cell Isc measurement it's performed at 50cm with a reproducible setup. Use this value for compare the relative energetic performance between the bulbs.



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# Bulb M21 at 1300W

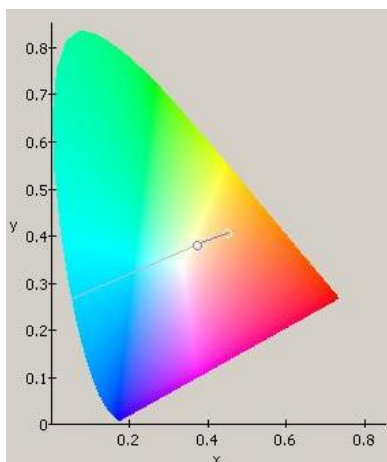


— Normalized measured spectrum — AM 1.5 Spectral irradiance normalized (400-1100nm)  
 — Polynomial extrapolation

Wavelength range	AM1.5 ratio	Spectrum ratio	Mismatch	Class
400-500 nm	18.4	11.6	0.63	B
500-600 nm	19.91	20.8	1.04	A
600-700 nm	18.36	21.2	1.16	A
700-800 nm	14.92	17.7	1.18	A
800-900 nm	12.46	12.6	1.01	A
900-1100 nm	15.94	16.2	1.01	A

Class A	Class B	Class C
0.75	0.60	0.40
1.25	1.40	2.00

## Lighting characteristics



**Color temperature = 4200 K**

**Color Render Index = 94.5 [-]**

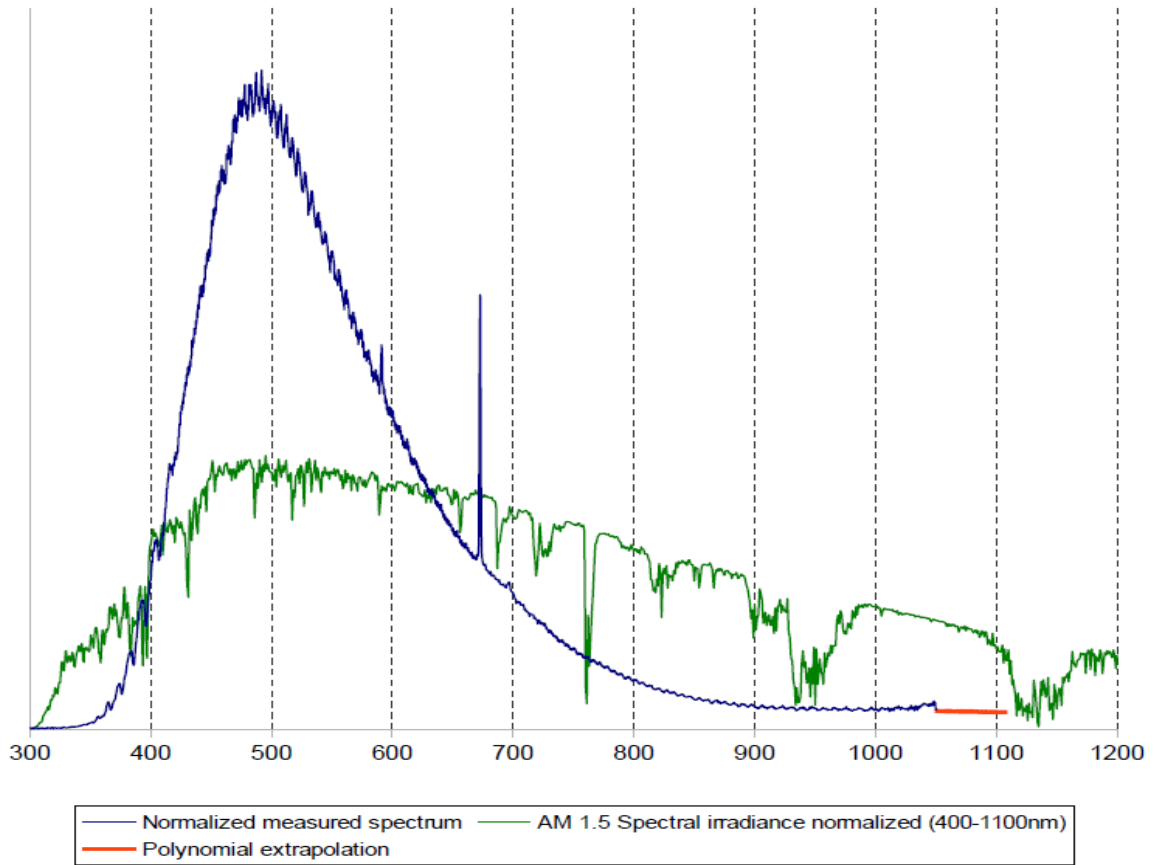
**Colors coordinate: x = 0.374 y = 0.381**

**Reference Cell Isc: 22 [mA]**

- This information is indicative, following the manufacturing batch, the parameters may change slightly.
- Reference Cell Isc measurement it's performed at 50cm with a reproducible setup. Use this value for compare the relative energetic performance between the bulbs.



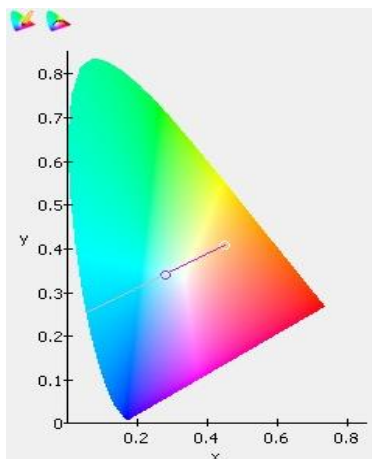
# Bulb M22 at 1000W



Wavelength range	AM1.5 ratio	Spectrum ratio	Mismatch	Class
400-500 nm	18.4	31.5	1.71	C
500-600 nm	19.91	37.7	1.89	C
600-700 nm	18.36	17.5	0.95	A
700-800 nm	14.92	7.2	0.48	C
800-900 nm	12.46	2.8	0.22	-
900-1100 nm	15.94	3.4	0.21	-

Class A	Class B	Class C
0.75	0.60	0.40
1.25	1.40	2.00

## Lighting characteristics



Color temperature = 8240 K

Color Render Index = 82.5 [-]

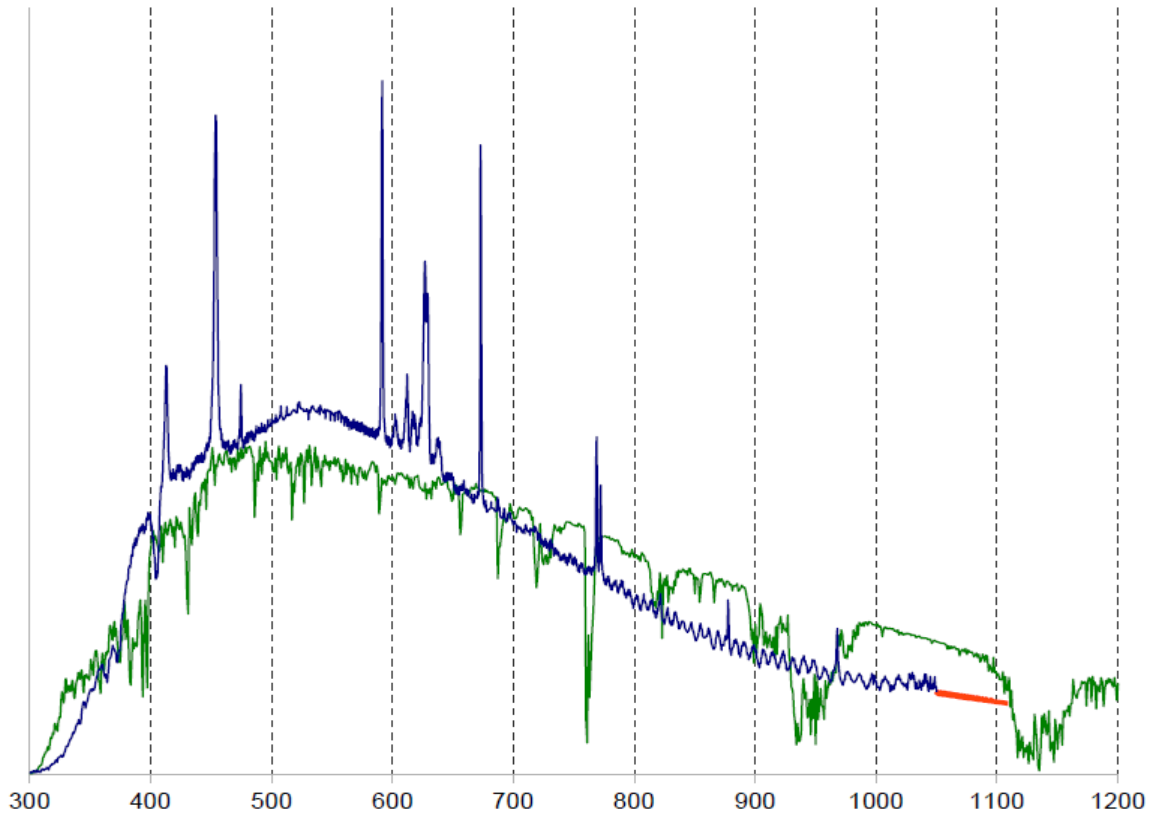
Colors coordinate:  $x = 0.279$   $y = 0.342$

Reference Cell Isc: 15.3 [mA]

- This information is indicative, following the manufacturing batch, the parameters may change slightly.
- Reference Cell Isc measurement it's performed at 50cm with a reproducible setup. Use this value for compare the relative energetic performance between the bulbs.



# Bulb M34 at 1000W

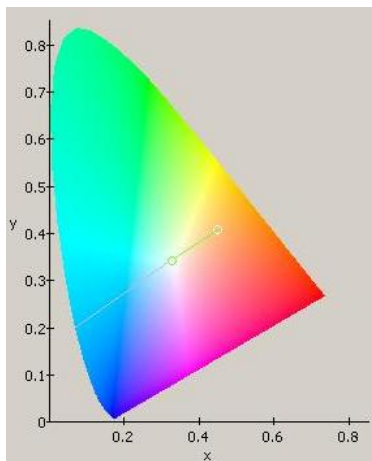


— Normalized measured spectrum — AM 1.5 Spectral irradiance normalized (400-1100nm)  
 — Polynomial extrapolation

Wavelength range	AM1.5 ratio	Spectrum ratio	Mismatch	Class
400-500 nm	18.4	20.0	1.08	A
500-600 nm	19.91	22.6	1.14	A
600-700 nm	18.36	20.3	1.10	A
700-800 nm	14.92	14.4	0.97	A
800-900 nm	12.46	9.8	0.79	A
900-1100 nm	15.94	12.9	0.81	A

Class A	Class B	Class C
0.75	0.60	0.40
1.25	1.40	2.00

## Lighting characteristics



**Color temperature = 5750 K**

**Color Render Index = 98.5 [-]**

**Colors coordinate: x = 0.327 y = 0.338**

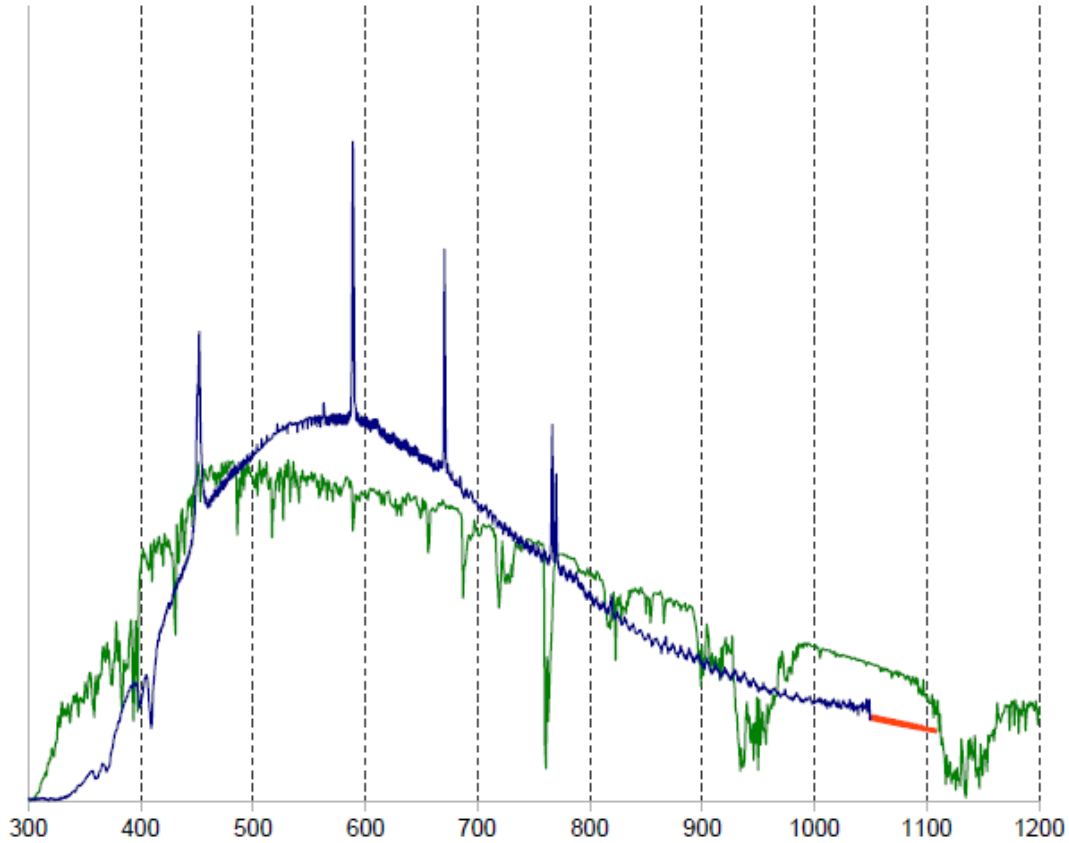
**Reference Cell Isc: 12.7 [mA]**

- This information is indicative, following the manufacturing batch, the parameters may change slightly.
- Reference Cell Isc measurement it's performed at 50cm with a reproducible setup. Use this value for compare the relative energetic performance between the bulbs.



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# Bulb M36 at 800W

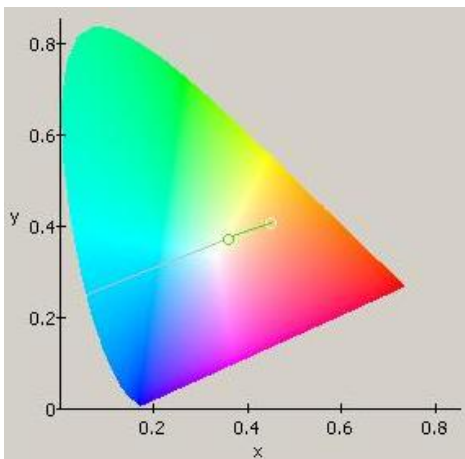


— Normalized measured spectrum — AM 1.5 Spectral irradiance normalized (400-1100nm)  
 — Polynomial extrapolation

Wavelength range	AM1.5 ratio	Spectrum ratio	Mismatch	Class
400-500 nm	18.4	14.4	0.78	A
500-600 nm	19.91	23.0	1.15	A
600-700 nm	18.36	21.6	1.18	A
700-800 nm	14.92	16.4	1.10	A
800-900 nm	12.46	11.0	0.88	A
900-1100 nm	15.94	13.6	0.85	A

Class A	Class B	Class C
0.75	0.60	0.40
1.25	1.40	2.00

## Lighting characteristics



**Color temperature = 4600 K**

**Color Render Index = 94.5 [-]**

**Colors coordinate: x = 0.359 y = 0.372**

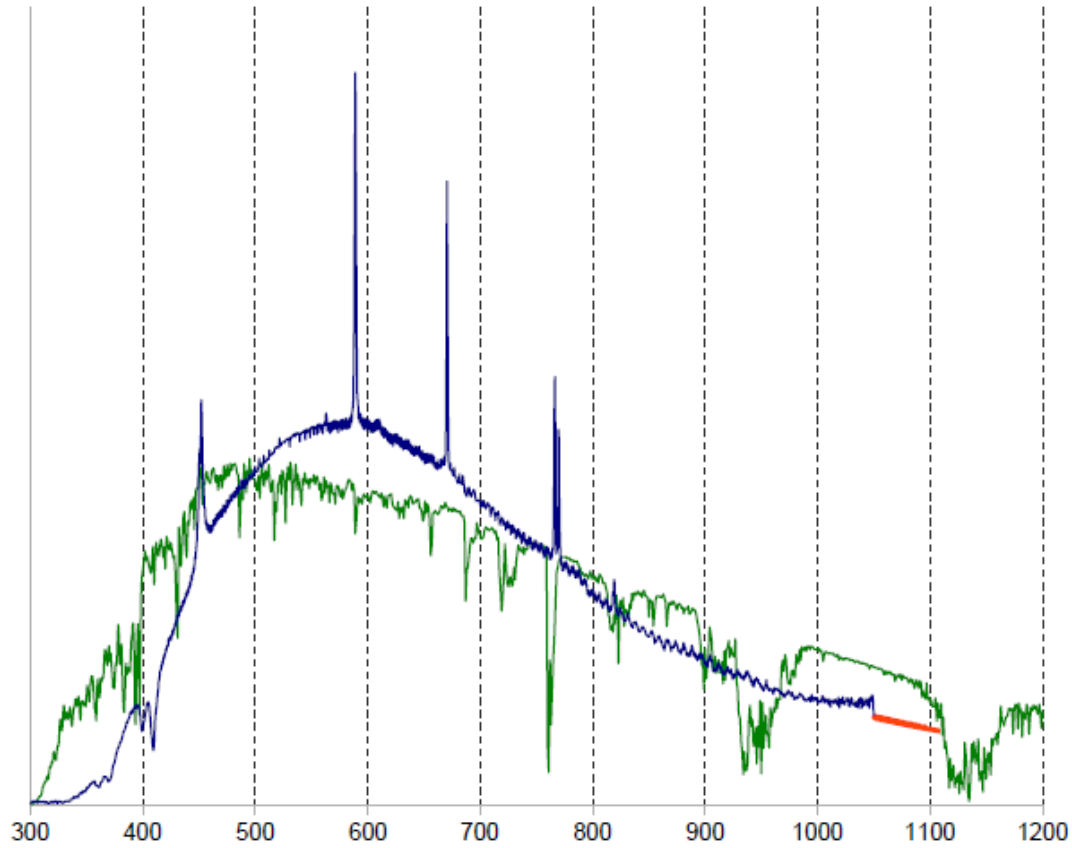
**Reference Cell Isc: 14 [mA]**

- This information is indicative, following the manufacturing batch, the parameters may change slightly.
- Reference Cell Isc measurement it's performed at 50cm with a reproducible setup. Use this value for compare the relative energetic performance between the bulbs.



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# Bulb M36 at 1000W

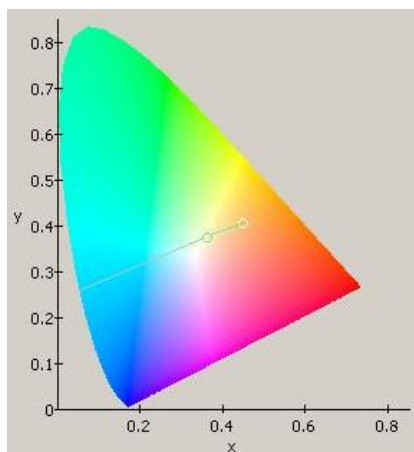


— Normalized measured spectrum — AM 1.5 Spectral irradiance normalized (400-1100nm)  
 — Polynomial extrapolation

Wavelength range	AM1.5 ratio	Spectrum ratio	Mismatch	Class
400-500 nm	18.4	13.0	0.71	B
500-600 nm	19.91	22.6	1.13	A
600-700 nm	18.36	21.9	1.19	A
700-800 nm	14.92	16.9	1.13	A
800-900 nm	12.46	11.4	0.91	A
900-1100 nm	15.94	14.2	0.89	A

Class A	Class B	Class C
0.75	0.60	0.40
1.25	1.40	2.00

## Lighting characteristics



Color temperature = 4500 K

Color Render Index = 94.5 [-]

Colors coordinate:  $x = 0.363$   $y = 0.375$

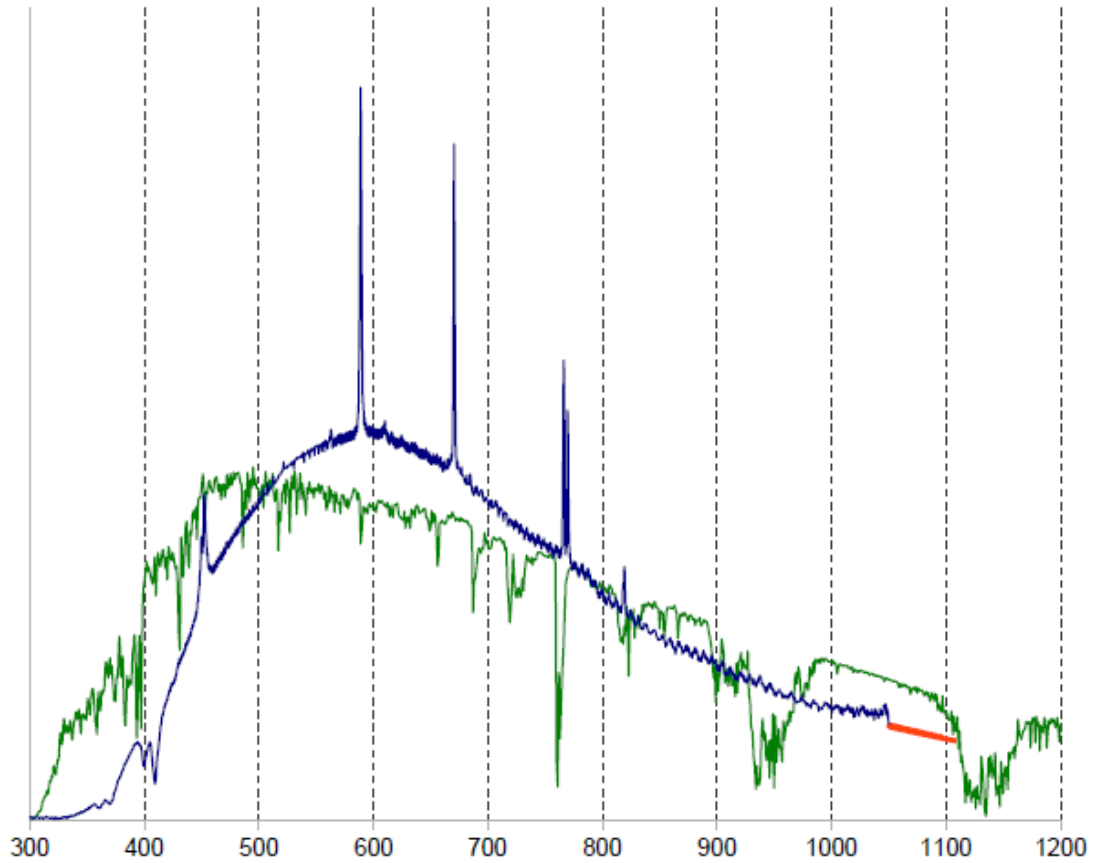
Reference Cell Isc: 19.5 [mA]

- This information is indicative, following the manufacturing batch, the parameters may change slightly.
- Reference Cell Isc measurement it's performed at 50cm with a reproducible setup. Use this value for compare the relative energetic performance between the bulbs.



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# Bulb M36 at 1300W

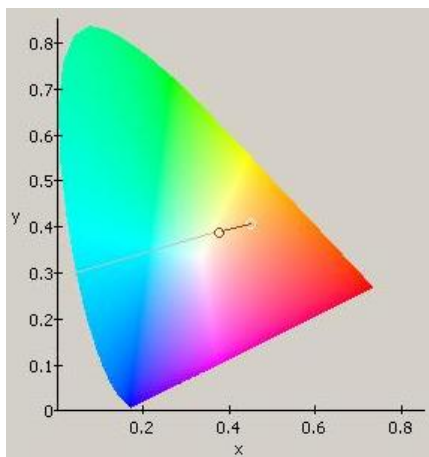


— Normalized measured spectrum — AM 1.5 Spectral irradiance normalized (400-1100nm)  
 — Polynomial extrapolation

Wavelength range	AM1.5 ratio	Spectrum ratio	Mismatch	Class
400-500 nm	18.4	11.2	0.61	B
500-600 nm	19.91	21.9	1.10	A
600-700 nm	18.36	22.3	1.22	A
700-800 nm	14.92	17.6	1.18	A
800-900 nm	12.46	12.0	0.96	A
900-1100 nm	15.94	15.0	0.94	A

Class A	Class B	Class C
0.75	0.60	0.40
1.25	1.40	2.00

## Lighting characteristics



**Color temperature = 4150 K**

**Color Render Index = 93.5 [-]**

**Colors coordinate: x = 0.378 y = 0.389**

**Reference Cell Isc: 26 [mA]**

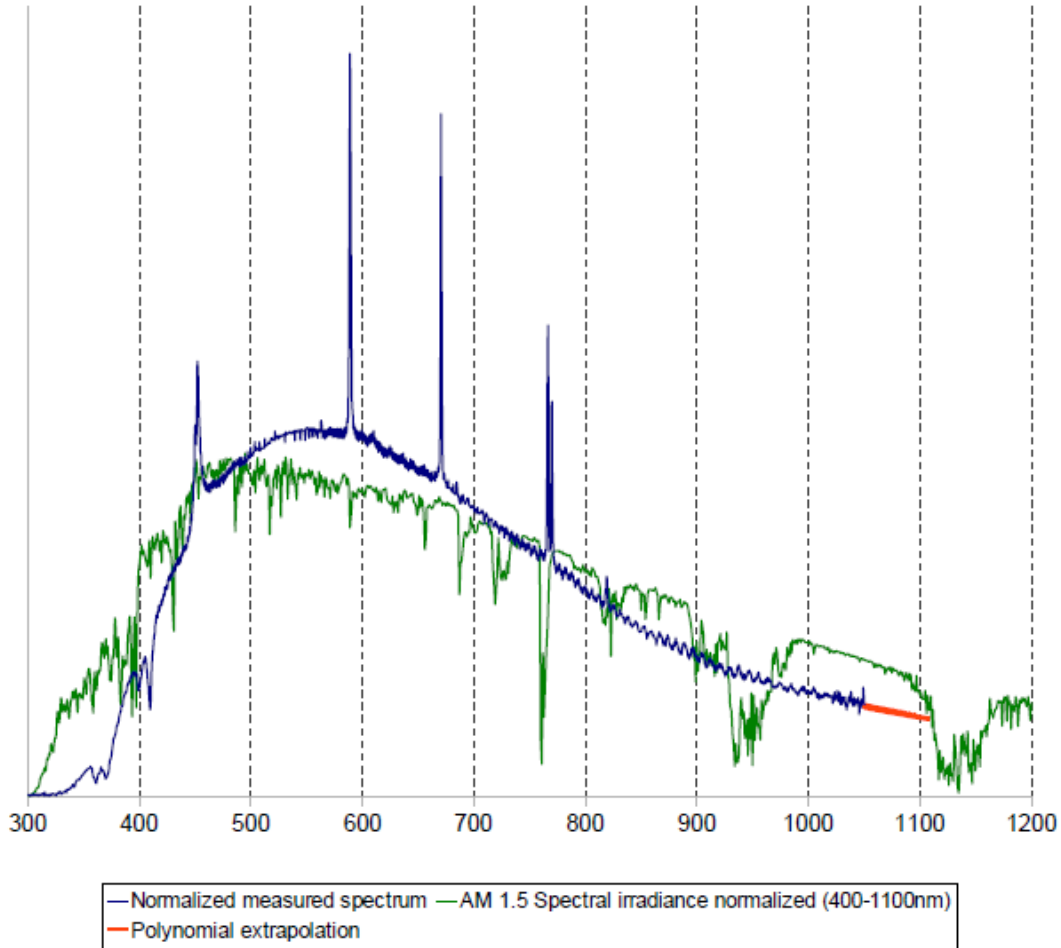
- This information is indicative, following the manufacturing batch, the parameters may change slightly.
- Reference Cell Isc measurement it's performed at 50cm with a reproducible setup. Use this value for compare the relative energetic performance between the bulbs.





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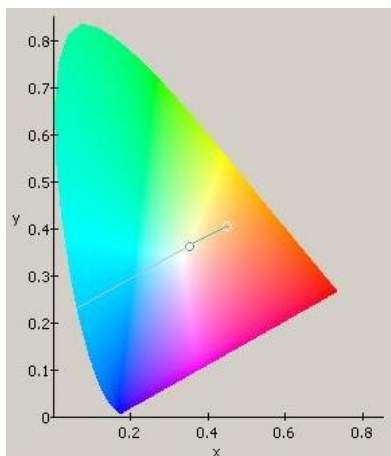
# Bulb M37 at 800W



Wavelength range	AM1.5 ratio	Spectrum ratio	Mismatch	Class
400-500 nm	18.4	15.0	0.82	A
500-600 nm	19.91	22.4	1.12	A
600-700 nm	18.36	20.9	1.14	A
700-800 nm	14.92	16.4	1.10	A
800-900 nm	12.46	11.2	0.90	A
900-1100 nm	15.94	14.1	0.89	A

Class A	Class B	Class C
0.75	0.60	0.40
1.25	1.40	2.00

## Lighting characteristics



**Color temperature = 4800 K**

**Color Render Index = 95 [-]**

**Colors coordinate: x = 0.352 y = 0.364**

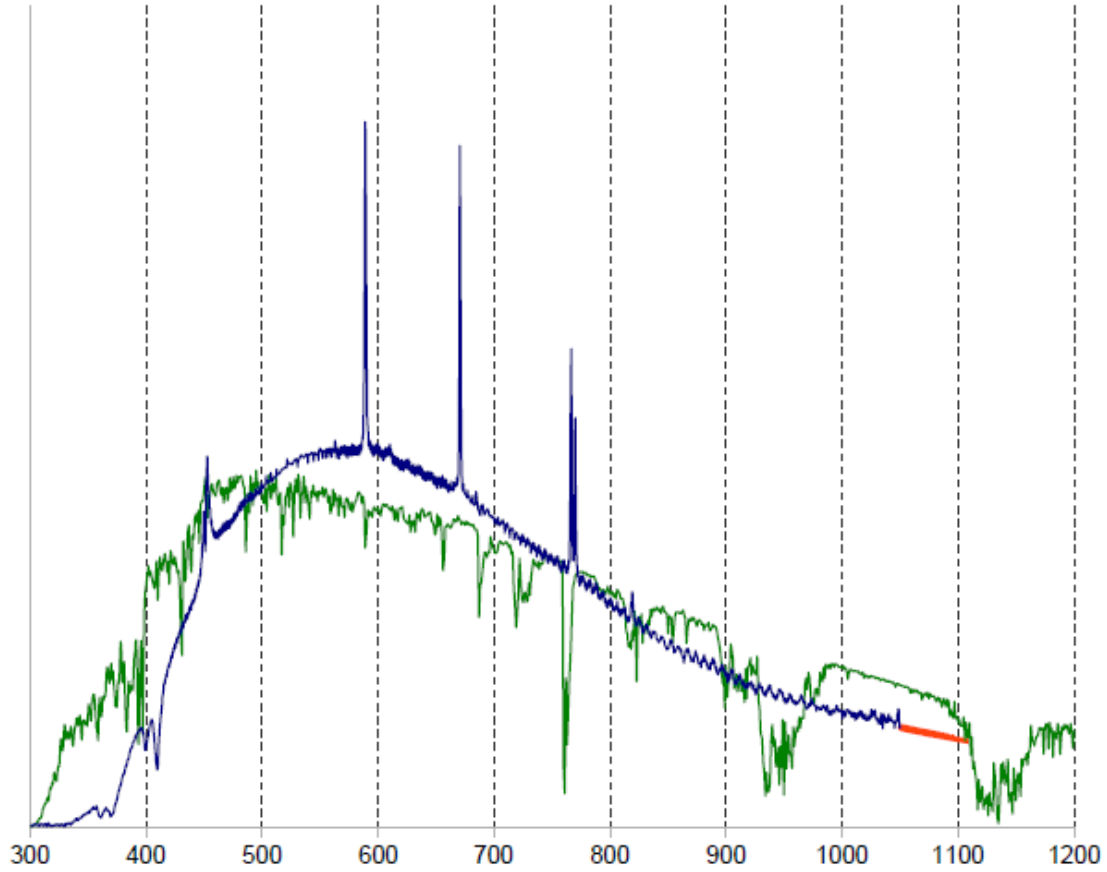
**Reference Cell Isc: 15 [mA]**

- This information is indicative, following the manufacturing batch, the parameters may change slightly.
- Reference Cell Isc measurement it's performed at 50cm with a reproducible setup. Use this value for compare the relative energetic performance between the bulbs.



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# Bulb M37 at 1000W

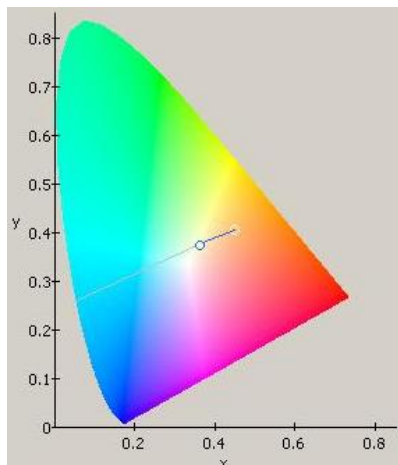


— Normalized measured spectrum — AM 1.5 Spectral irradiance normalized (400-1100nm)  
 — Polynomial extrapolation

Wavelength range	AM1.5 ratio	Spectrum ratio	Mismatch	Class
400-500 nm	18.4	13.1	0.71	B
500-600 nm	19.91	21.9	1.10	A
600-700 nm	18.36	21.2	1.16	A
700-800 nm	14.92	17.0	1.14	A
800-900 nm	12.46	11.8	0.94	A
900-1100 nm	15.94	15.0	0.94	A

Class A	Class B	Class C
0.75	0.60	0.40
1.25	1.40	2.00

## Lighting characteristics



Color temperature = 4500 K

Color Render Index = 94.5 [-]

Colors coordinate:  $x = 0.363$   $y = 0.378$

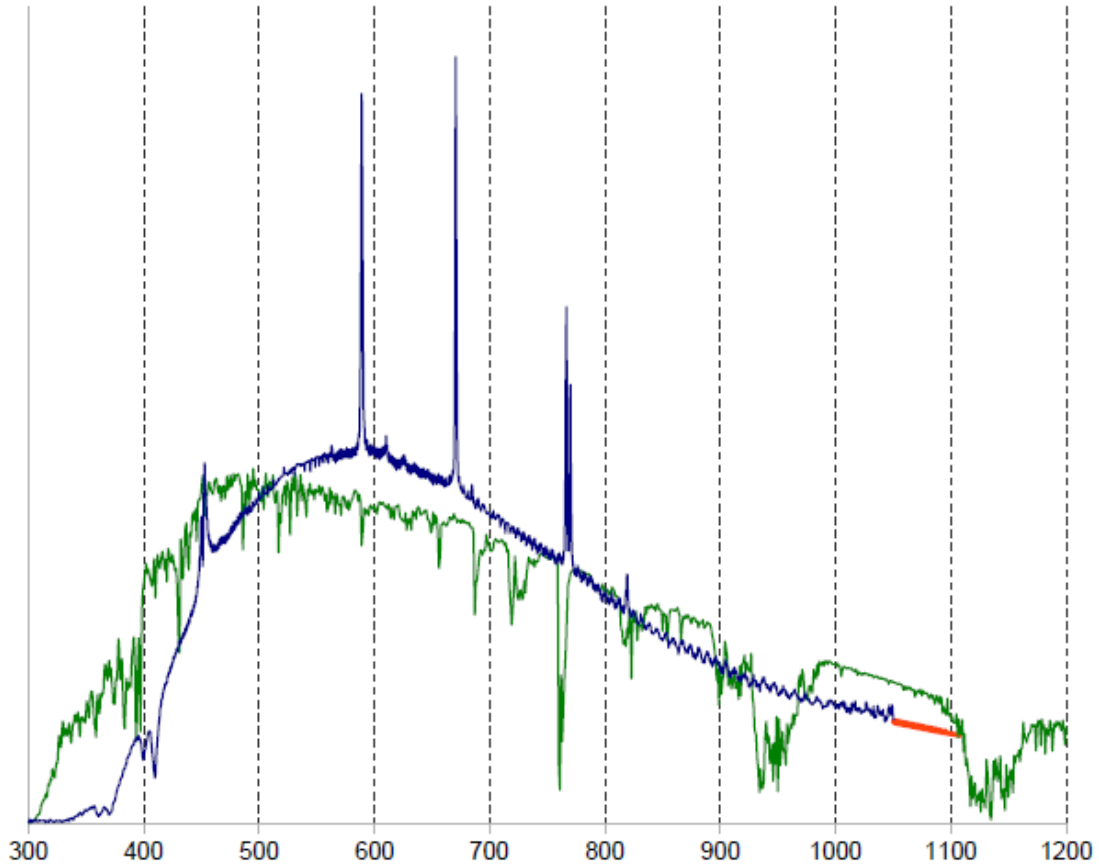
Reference Cell Isc: 20 [mA]

- This information is indicative, following the manufacturing batch, the parameters may change slightly.
- Reference Cell Isc measurement it's performed at 50cm with a reproducible setup. Use this value for compare the relative energetic performance between the bulbs.



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# Bulb M37 at 1300W

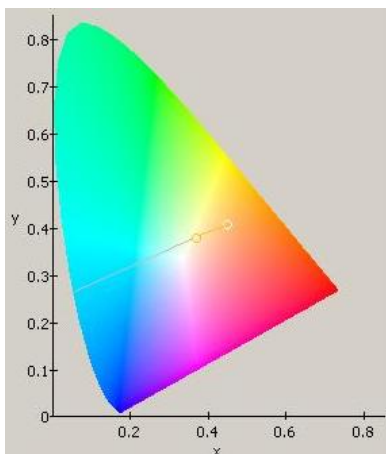


— Normalized measured spectrum — AM 1.5 Spectral irradiance normalized (400-1100nm)  
 — Polynomial extrapolation

Wavelength range	AM1.5 ratio	Spectrum ratio	Mismatch	Class
400-500 nm	18.4	12.2	0.66	B
500-600 nm	19.91	21.5	1.08	A
600-700 nm	18.36	21.4	1.17	A
700-800 nm	14.92	17.3	1.16	A
800-900 nm	12.46	12.1	0.97	A
900-1100 nm	15.94	15.5	0.97	A

Class A	Class B	Class C
0.75	0.60	0.40
1.25	1.40	2.00

## Lighting characteristics



**Color temperature = 4350 K**

**Color Render Index = 94 [-]**

**Colors coordinate: x = 0.368 y = 0.379**

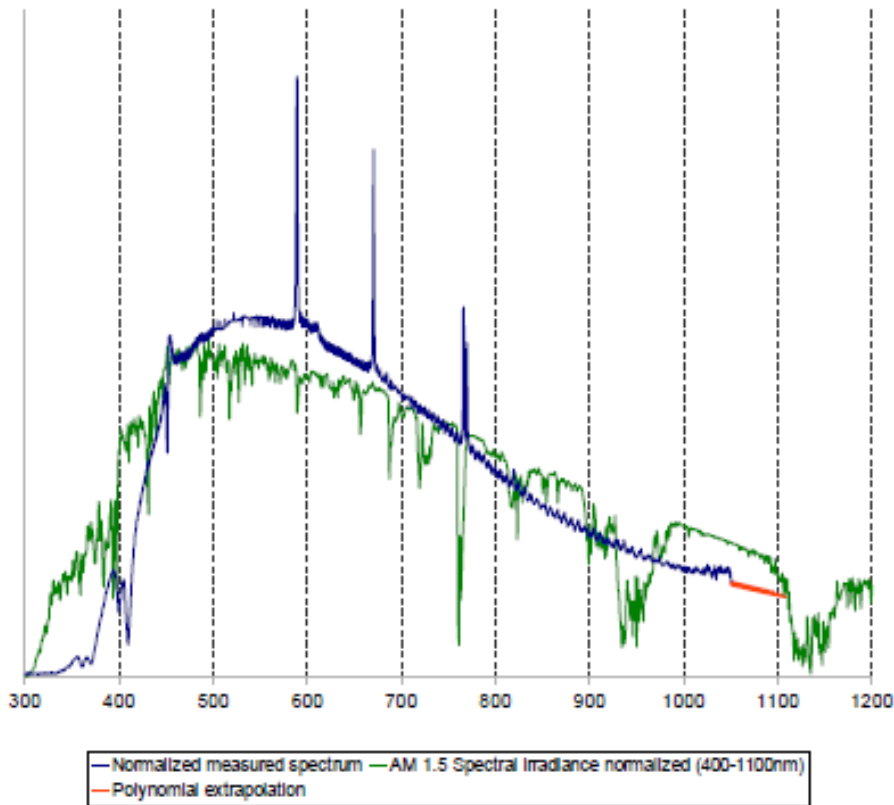
**Reference Cell Isc: 28 [mA]**

- This information is indicative, following the manufacturing batch, the parameters may change slightly.
- Reference Cell Isc measurement it's performed at 50cm with a reproducible setup. Use this value for compare the relative energetic performance between the bulbs.



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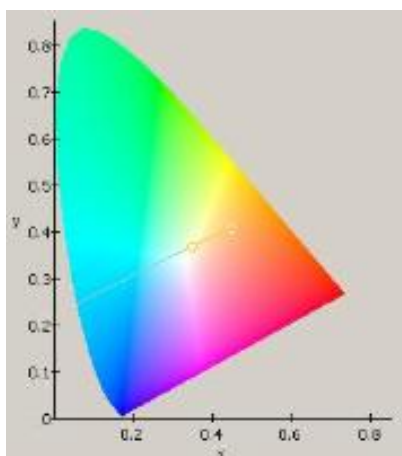
# Bulb M38 at 1000W



Wavelength range	AM1.5 ratio	Spectrum ratio	Mismatch	Class
400-500 nm	18.4	14.2	0.77	A
500-600 nm	19.91	22.4	1.12	A
600-700 nm	18.36	20.5	1.12	A
700-800 nm	14.92	16.4	1.10	A
800-900 nm	12.46	11.5	0.92	A
900-1100 nm	15.94	15.1	0.95	A

Class A	Class B	Class C
0.75	0.60	0.40
1.25	1.40	2.00

## Lighting characteristics



Color temperature = 4900 K

Color Render Index = 95.3 [-]

Colors coordinate:  $x = 0.350$       $y = 0.367$

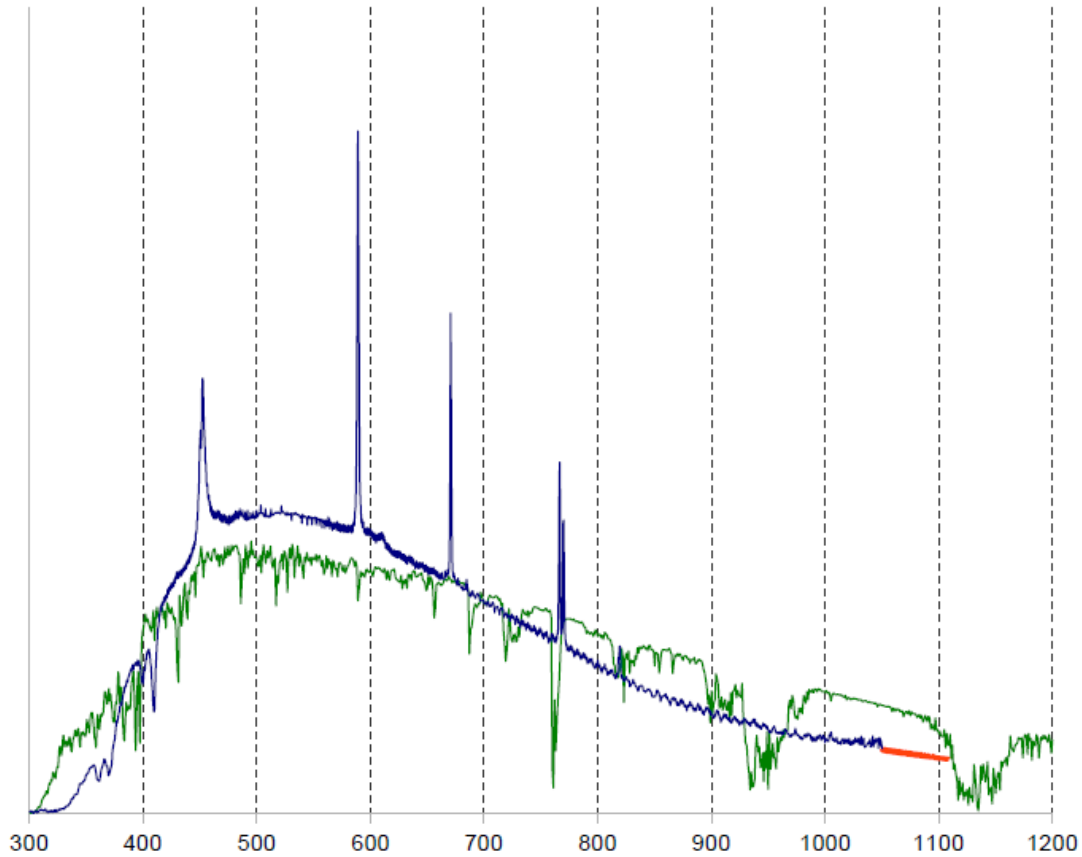
Reference Cell Isc: [mA]

- This information is indicative, following the manufacturing batch, the parameters may change slightly.
- Reference Cell Isc measurement it's performed at 50cm with a reproducible setup. Use this value for compare the relative energetic performance between the bulbs.



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# Bulb M38-85 at 800W

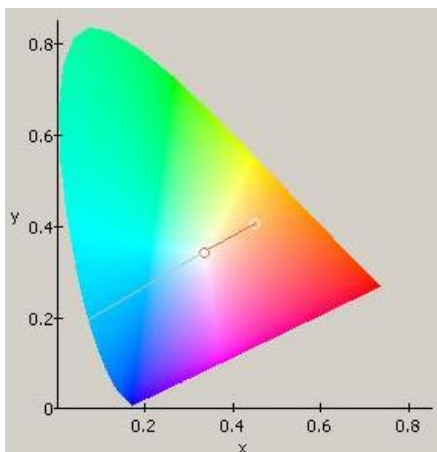


— Normalized measured spectrum — AM 1.5 Spectral irradiance normalized (400-1100nm)  
 — Polynomial extrapolation

Wavelength range	AM1.5 ratio	Spectrum ratio	Mismatch	Class
400-500 nm	18.4	19.1	1.04	A
500-600 nm	19.91	23.2	1.17	A
600-700 nm	18.36	19.8	1.08	A
700-800 nm	14.92	15.0	1.01	A
800-900 nm	12.46	10.1	0.81	A
900-1100 nm	15.94	12.8	0.80	A

Class A	Class B	Class C
0.75	0.60	0.40
1.25	1.40	2.00

## Lighting characteristics



Color temperature = 5430 K

Color Render Index = 96 [-]

Colors coordinate:  $x = 0.334$   $y = 0.344$

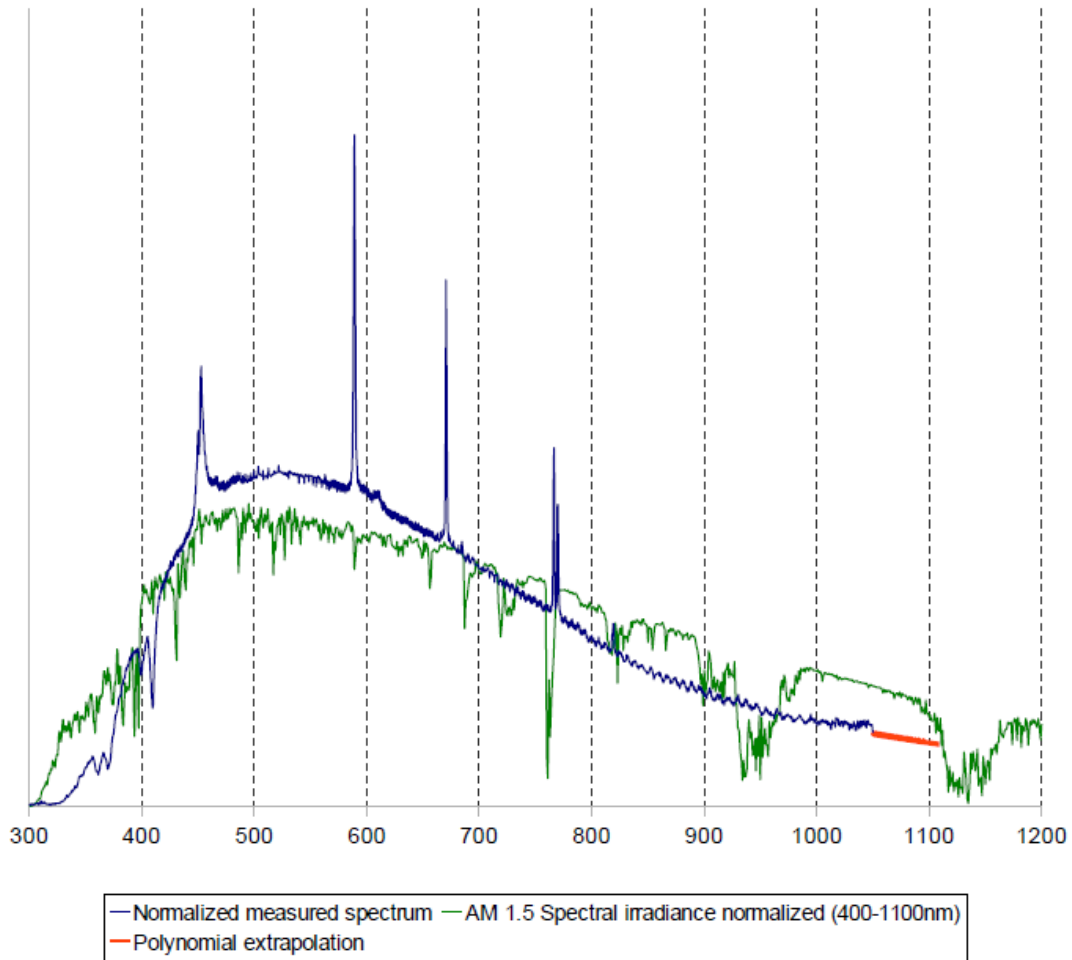
Reference Cell Isc: 13 [mA]

- This information is indicative, following the manufacturing batch, the parameters may change slightly.
- Reference Cell Isc measurement it's performed at 50cm with a reproducible setup. Use this value for compare the relative energetic performance between the bulbs.



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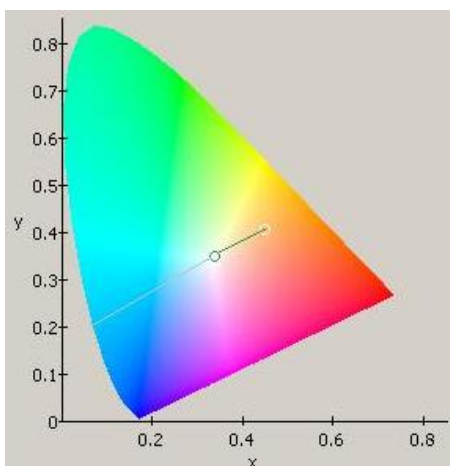
# Bulb M38-85 at 1000W



Wavelength range	AM1.5 ratio	Spectrum ratio	Mismatch	Class
400-500 nm	18.4	18.2	0.99	A
500-600 nm	19.91	23.1	1.16	A
600-700 nm	18.36	20.0	1.09	A
700-800 nm	14.92	15.3	1.02	A
800-900 nm	12.46	10.3	0.83	A
900-1100 nm	15.94	13.1	0.82	A

Class A	Class B	Class C
0.75	0.60	0.40
1.25	1.40	2.00

## Lighting characteristics



Color temperature = 5300 K

Color Render Index = 96.5 [-]

Colors coordinate:  $x = 0.337$   $y = 0.349$

Reference Cell Isc: 16.7 [mA]

- This information is indicative, following the manufacturing batch, the parameters may change slightly.
- Reference Cell Isc measurement it's performed at 50cm with a reproducible setup. Use this value for compare the relative energetic performance between the bulbs.



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# Bulb M38-85 at 1300W

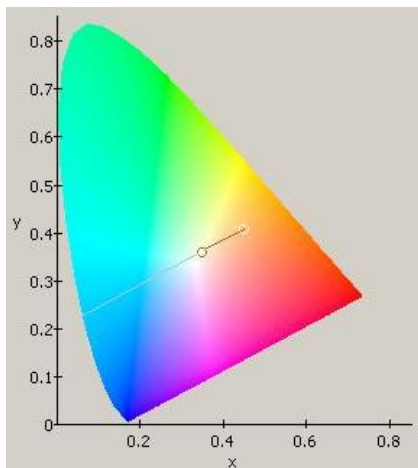


— Normalized measured spectrum — AM 1.5 Spectral irradiance normalized (400-1100nm)  
 — Polynomial extrapolation

Wavelength range	AM1.5 ratio	Spectrum ratio	Mismatch	Class
400-500 nm	18.4	15.9	0.86	A
500-600 nm	19.91	22.8	1.15	A
600-700 nm	18.36	20.6	1.12	A
700-800 nm	14.92	15.9	1.07	A
800-900 nm	12.46	10.9	0.88	A
900-1100 nm	15.94	13.8	0.87	A

Class A	Class B	Class C
0.75	0.60	0.40
1.25	1.40	2.00

## Lighting characteristics



**Color temperature = 4950 K**

**Color Render Index = 95 [-]**

**Colors coordinate: x = 0.347 y = 0.361**

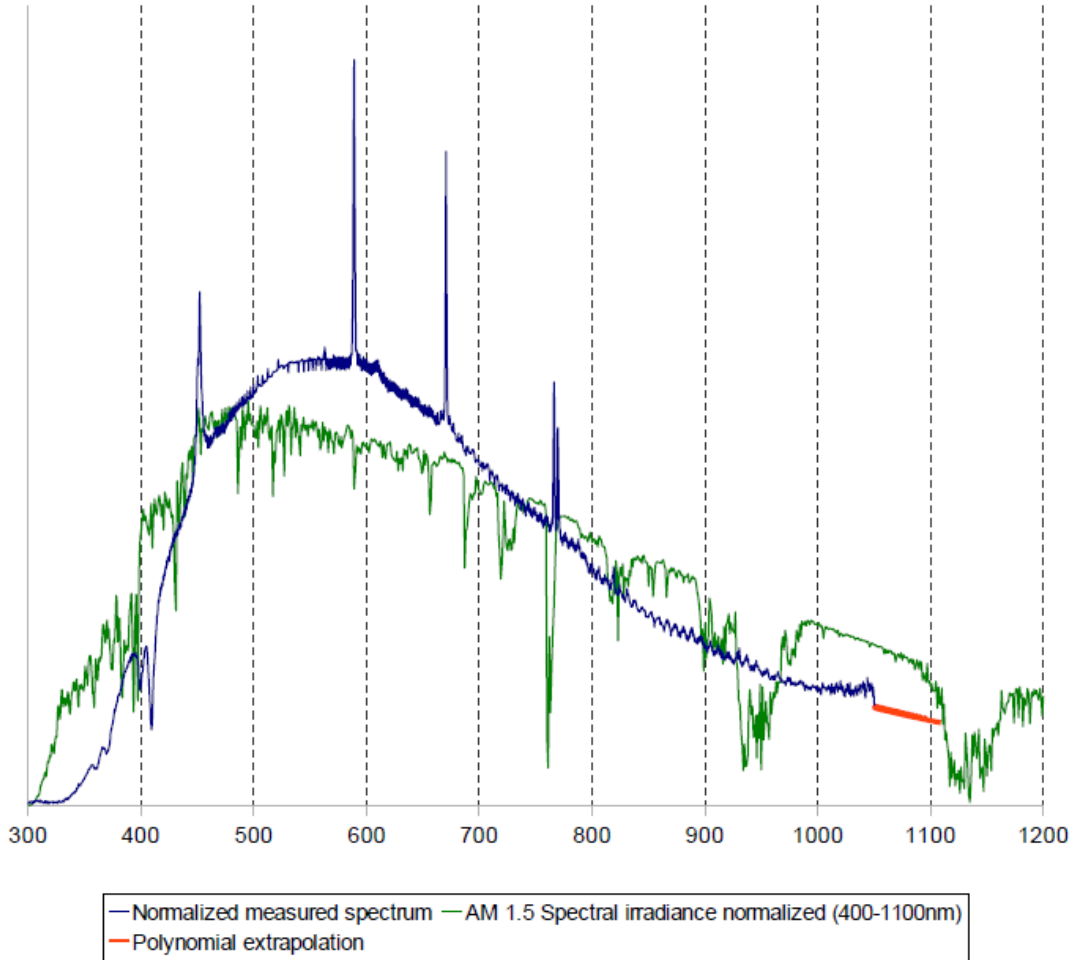
**Reference Cell Isc: 23.5 [mA]**

- This information is indicative, following the manufacturing batch, the parameters may change slightly.
- Reference Cell Isc measurement it's performed at 50cm with a reproducible setup. Use this value for compare the relative energetic performance between the bulbs.



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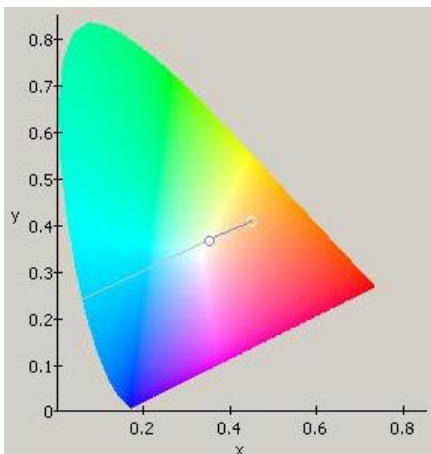
# Bulb M39 at 800W



Wavelength range	AM1.5 ratio	Spectrum ratio	Mismatch	Class
400-500 nm	18.4	15.0	0.82	A
500-600 nm	19.91	22.9	1.15	A
600-700 nm	18.36	21.3	1.16	A
700-800 nm	14.92	16.2	1.09	A
800-900 nm	12.46	10.9	0.87	A
900-1100 nm	15.94	13.7	0.86	A

Class A	Class B	Class C
0.75	0.60	0.40
1.25	1.40	2.00

## Lighting characteristics



**Color temperature = 4800 K**

**Color Render Index = 95.5 [-]**

**Colors coordinate: x = 0.353 y = 0.367**

**Reference Cell Isc: 12.5 [mA]**

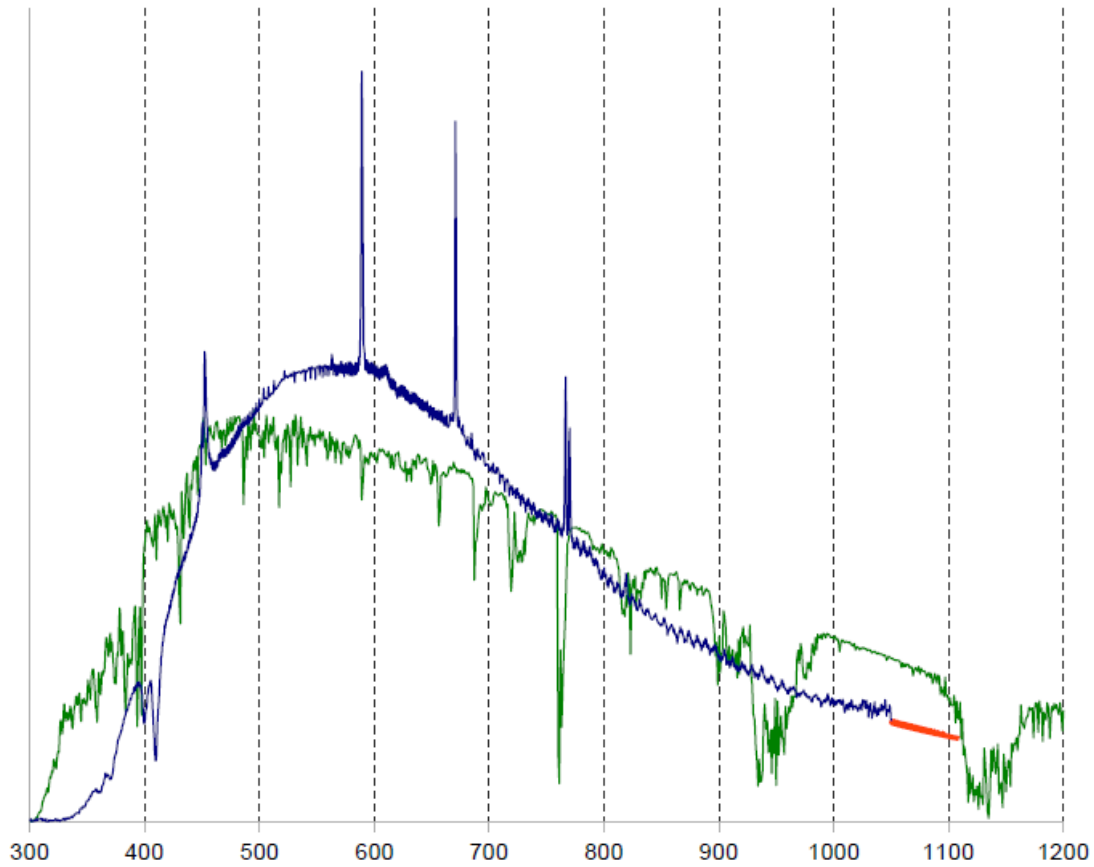
- This information is indicative, following the manufacturing batch, the parameters may change slightly.
- Reference Cell Isc measurement it's performed at 50cm with a reproducible setup. Use this value for compare the relative energetic performance between the bulbs.





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# Bulb M39 at 1000W

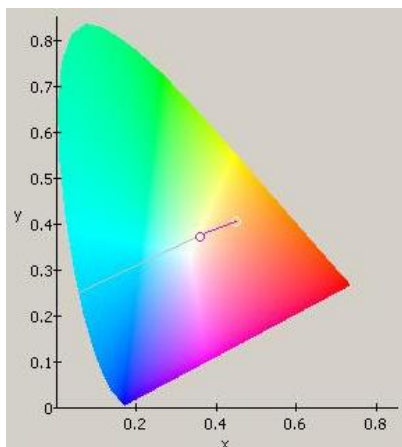


— Normalized measured spectrum — AM 1.5 Spectral irradiance normalized (400-1100nm)  
 — Polynomial extrapolation

Wavelength range	AM1.5 ratio	Spectrum ratio	Mismatch	Class
400-500 nm	18.4	14.1	0.76	A
500-600 nm	19.91	22.9	1.15	A
600-700 nm	18.36	21.7	1.18	A
700-800 nm	14.92	16.6	1.11	A
800-900 nm	12.46	11.1	0.89	A
900-1100 nm	15.94	13.7	0.86	A

Class A	Class B	Class C
0.75	0.60	0.40
1.25	1.40	2.00

## Lighting characteristics



Color temperature = 4650 K

Color Render Index = 95 [-]

Colors coordinate:  $x = 0.358$   $y = 0.372$

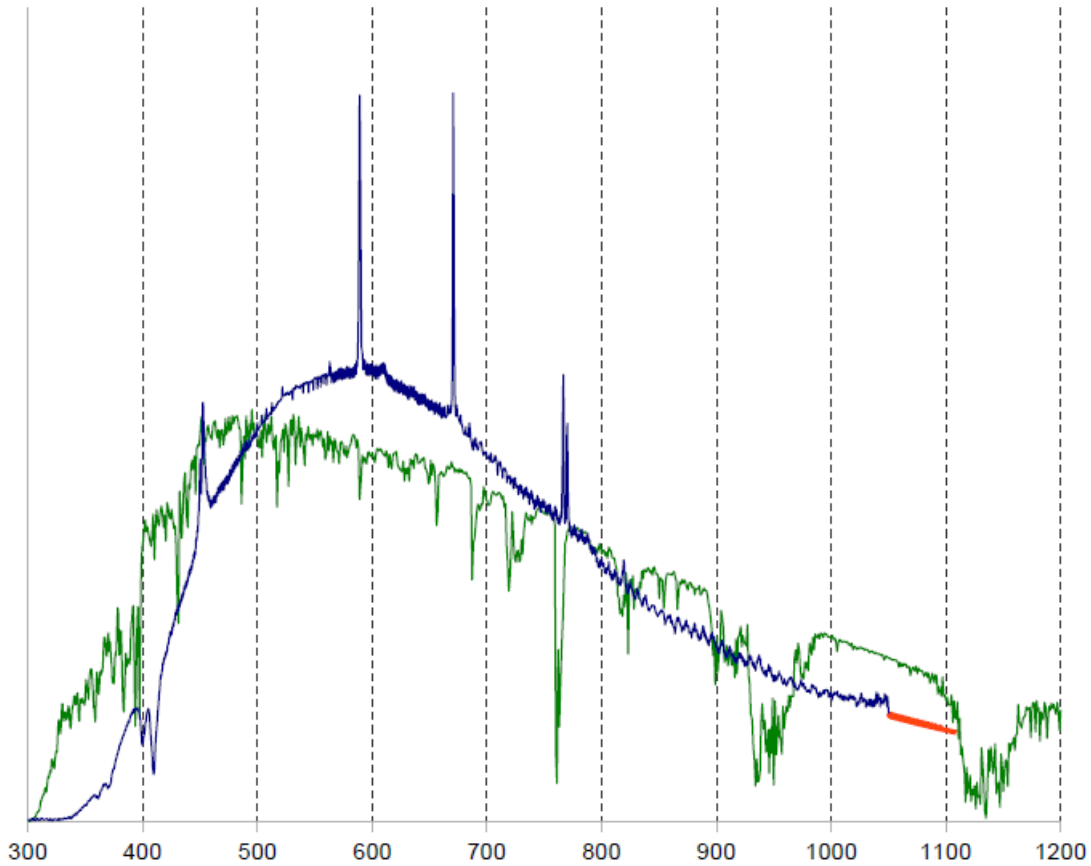
Reference Cell Isc: 16.5 [mA]

- This information is indicative, following the manufacturing batch, the parameters may change slightly.
- Reference Cell Isc measurement it's performed at 50cm with a reproducible setup. Use this value for compare the relative energetic performance between the bulbs.



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# Bulb M39 at 1300W

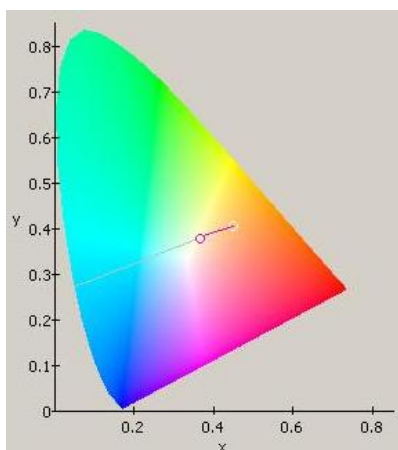


— Normalized measured spectrum — AM 1.5 Spectral irradiance normalized (400-1100nm)  
 — Polynomial extrapolation

Wavelength range	AM1.5 ratio	Spectrum ratio	Mismatch	Class
400-500 nm	18.4	12.4	0.67	B
500-600 nm	19.91	22.2	1.12	A
600-700 nm	18.36	22.0	1.20	A
700-800 nm	14.92	17.2	1.15	A
800-900 nm	12.46	11.7	0.94	A
900-1100 nm	15.94	14.5	0.91	A

Class A	Class B	Class C
0.75	0.60	0.40
1.25	1.40	2.00

## Lighting characteristics



Color temperature = 4400 K

Color Render Index = 94.5 [-]

Colors coordinate:  $x = 0.367$   $y = 0.380$

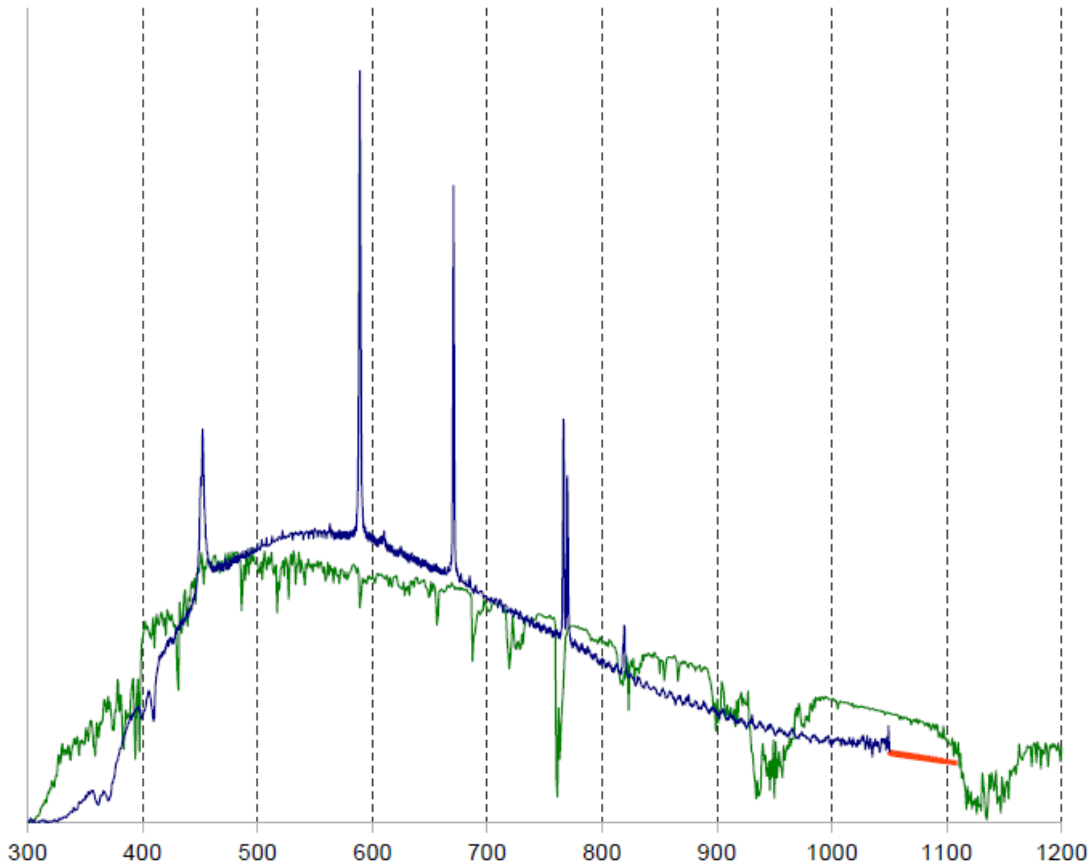
Reference Cell Isc: 22 [mA]

- This information is indicative, following the manufacturing batch, the parameters may change slightly.
- Reference Cell Isc measurement it's performed at 50cm with a reproducible setup. Use this value for compare the relative energetic performance between the bulbs.



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# Bulb M40 at 800W

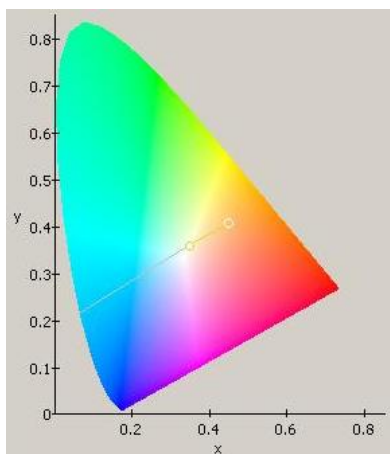


— Normalized measured spectrum — AM 1.5 Spectral irradiance normalized (400-1100nm)  
 — Polynomial extrapolation

Wavelength range	AM1.5 ratio	Spectrum ratio	Mismatch	Class
400-500 nm	18.4	16.0	0.87	A
500-600 nm	19.91	22.5	1.13	A
600-700 nm	18.36	20.6	1.12	A
700-800 nm	14.92	16.1	1.08	A
800-900 nm	12.46	11.0	0.88	A
900-1100 nm	15.94	13.9	0.87	A

Class A	Class B	Class C
0.75	0.60	0.40
1.25	1.40	2.00

## Lighting characteristics



Color temperature = 4850 K

Color Render Index = 95 [-]

Colors coordinate:  $x = 0.350$   $y = 0.358$

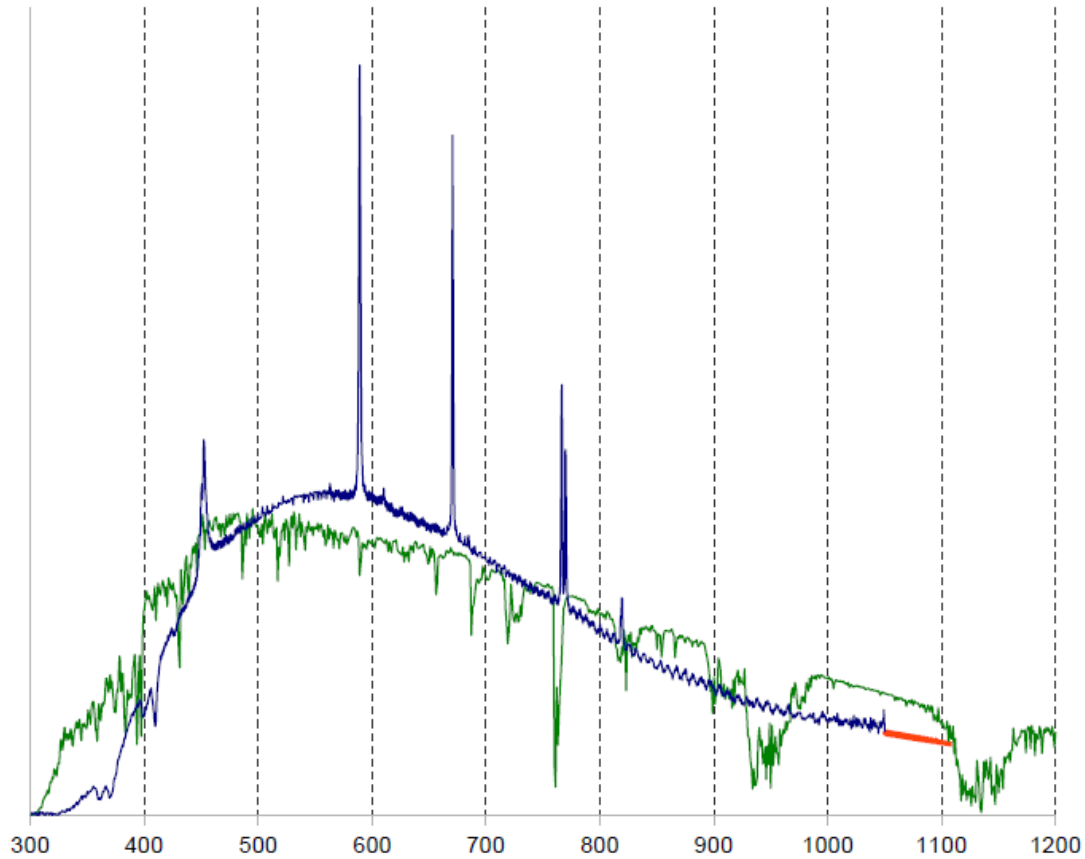
Reference Cell Isc: 13 [mA]

- This information is indicative, following the manufacturing batch, the parameters may change slightly.
- Reference Cell Isc measurement it's performed at 50cm with a reproducible setup. Use this value for compare the relative energetic performance between the bulbs.



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# Bulb M40 at 1000W

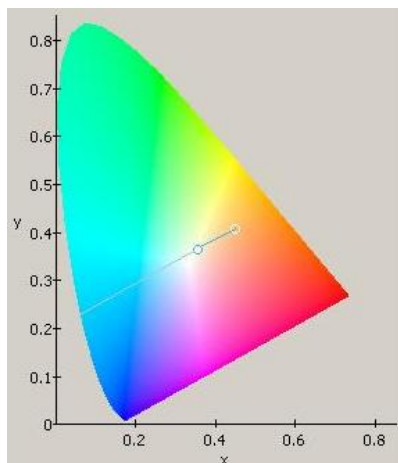


— Normalized measured spectrum — AM 1.5 Spectral irradiance normalized (400-1100nm)  
 — Polynomial extrapolation

Wavelength range	AM1.5 ratio	Spectrum ratio	Mismatch	Class
400-500 nm	18.4	14.8	0.80	A
500-600 nm	19.91	22.2	1.11	A
600-700 nm	18.36	20.8	1.13	A
700-800 nm	14.92	16.4	1.10	A
800-900 nm	12.46	11.3	0.91	A
900-1100 nm	15.94	14.5	0.91	A

Class A	Class B	Class C
0.75	0.60	0.40
1.25	1.40	2.00

## Lighting characteristics



Color temperature = 4700 K

Color Render Index = 94.5 [-]

Colors coordinate:  $x = 0.355$   $y = 0.365$

Reference Cell Isc: 17.5 [mA]

- This information is indicative, following the manufacturing batch, the parameters may change slightly.
- Reference Cell Isc measurement it's performed at 50cm with a reproducible setup. Use this value for compare the relative energetic performance between the bulbs.



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# Bulb M40 at 1300W

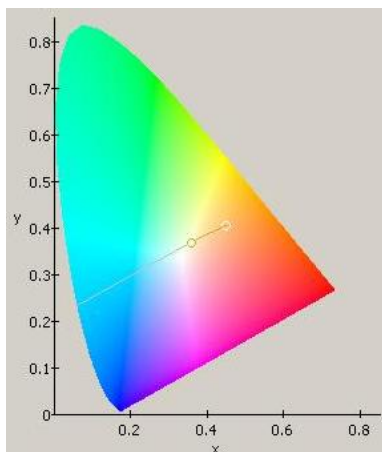


— Normalized measured spectrum — AM 1.5 Spectral irradiance normalized (400-1100nm)  
 — Polynomial extrapolation

Wavelength range	AM1.5 ratio	Spectrum ratio	Mismatch	Class
400-500 nm	18.4	14.0	0.76	A
500-600 nm	19.91	21.7	1.09	A
600-700 nm	18.36	21.0	1.14	A
700-800 nm	14.92	16.7	1.12	A
800-900 nm	12.46	11.6	0.93	A
900-1100 nm	15.94	15.1	0.95	A

Class A	Class B	Class C
0.75	0.60	0.40
1.25	1.40	2.00

## Lighting characteristics



Color temperature = 4550 K

Color Render Index = 95 [-]

Colors coordinate: x = 0.360 y = 0.368

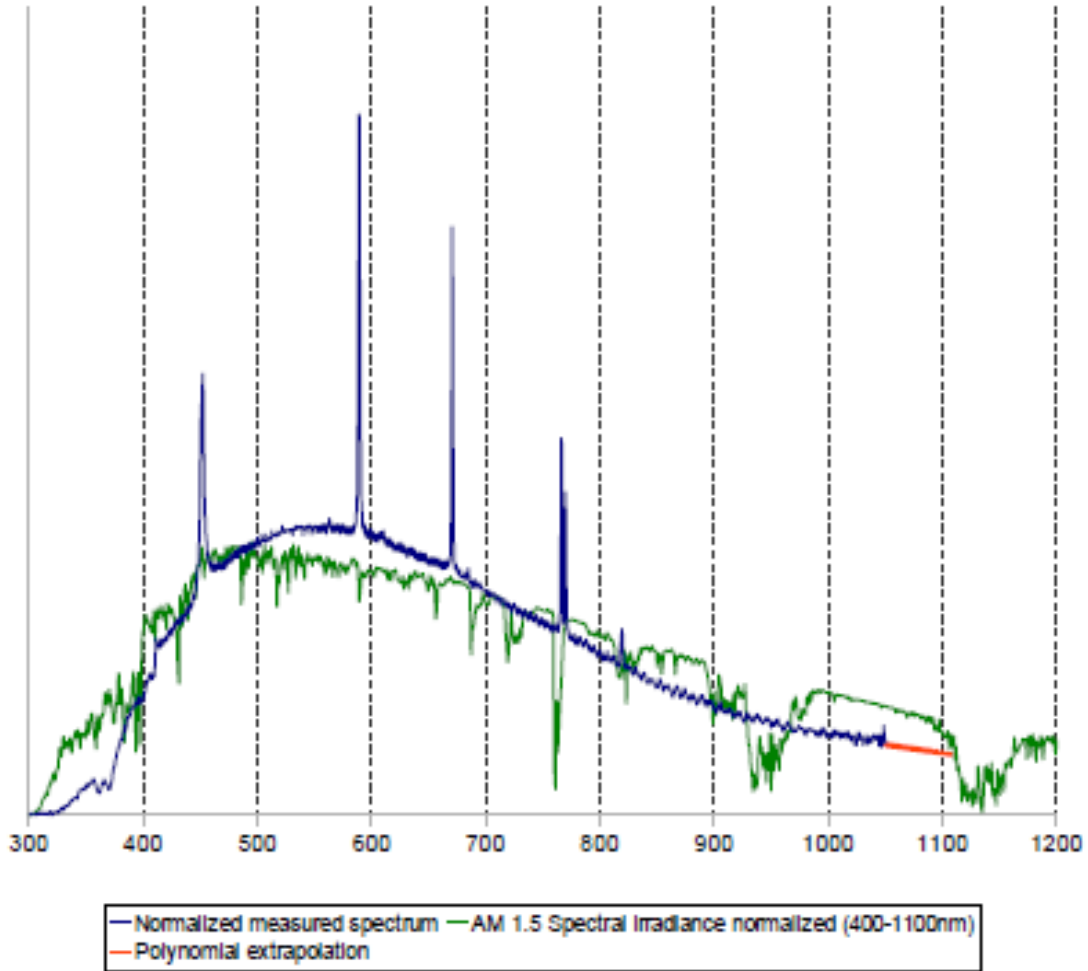
Reference Cell Isc: 23.5 [mA]

- This information is indicative, following the manufacturing batch, the parameters may change slightly.
- Reference Cell Isc measurement it's performed at 50cm with a reproducible setup. Use this value for compare the relative energetic performance between the bulbs.



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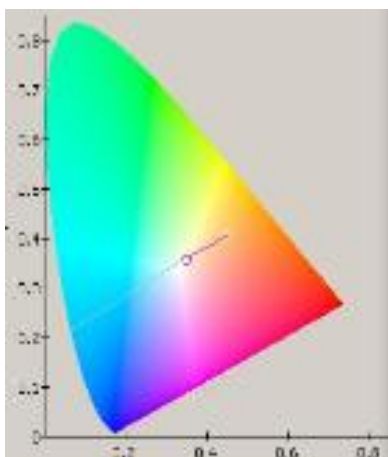
# Bulb M41 at 800W



Wavelength range	AM1.5 ratio	Spectrum ratio	Mismatch	Class
400-500 nm	18.4	16.3	0.89	A
500-600 nm	19.91	22.3	1.12	A
600-700 nm	18.36	20.5	1.11	A
700-800 nm	14.92	16.0	1.07	A
800-900 nm	12.46	11.0	0.89	A
900-1100 nm	15.94	13.9	0.87	A

Class A	Class B	Class C
0.75	0.60	0.40
1.25	1.40	2.00

## Lighting characteristics



**Color temperature = 4880 K**

**Color Render Index = 95.4 [-]**

**Colors coordinate: x = 0.349 y = 0.358**

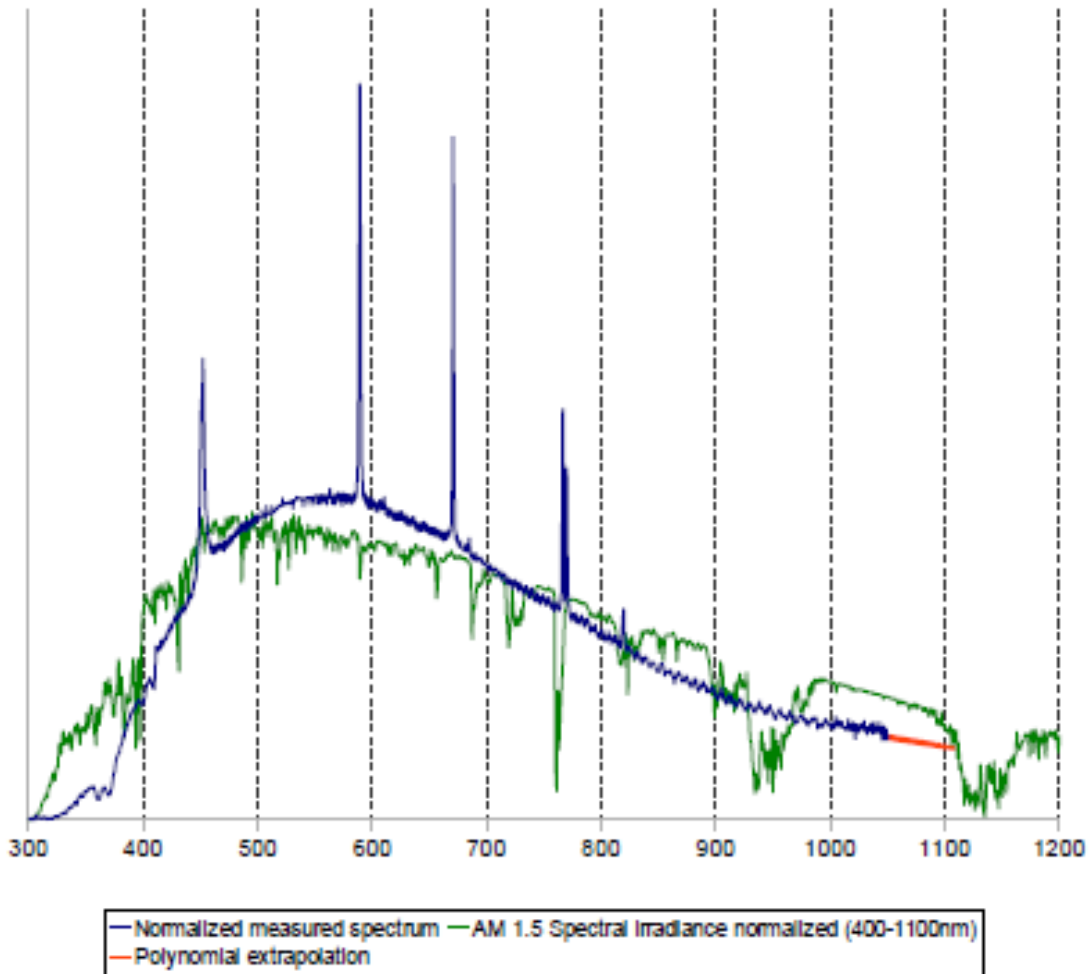
**Reference Cell Isc: 14.5 [mA]**

- This information is indicative, following the manufacturing batch, the parameters may change slightly.
- Reference Cell Isc measurement it's performed at 50cm with a reproducible setup. Use this value for compare the relative energetic performance between the bulbs.



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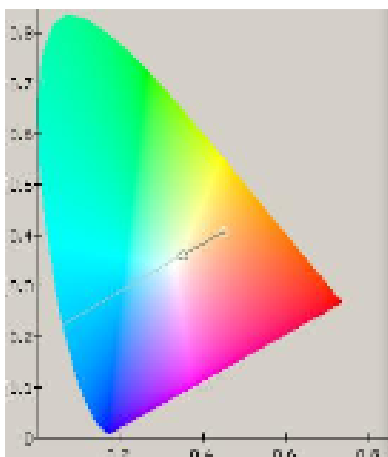
# Bulb M41 at 1000W



Wavelength range	AM1.5 ratio	Spectrum ratio	Mismatch	Class
400-500 nm	18.4	15.4	0.84	A
500-600 nm	19.91	22.1	1.11	A
600-700 nm	18.36	20.6	1.12	A
700-800 nm	14.92	16.2	1.08	A
800-900 nm	12.46	11.3	0.91	A
900-1100 nm	15.94	14.4	0.90	A

Class A	Class B	Class C
0.75	0.60	0.40
1.25	1.40	2.00

## Lighting characteristics



**Color temperature = 4785 K**

**Color Render Index = 95.2 [-]**

**Colors coordinate: x = 0.352 y = 0.362**

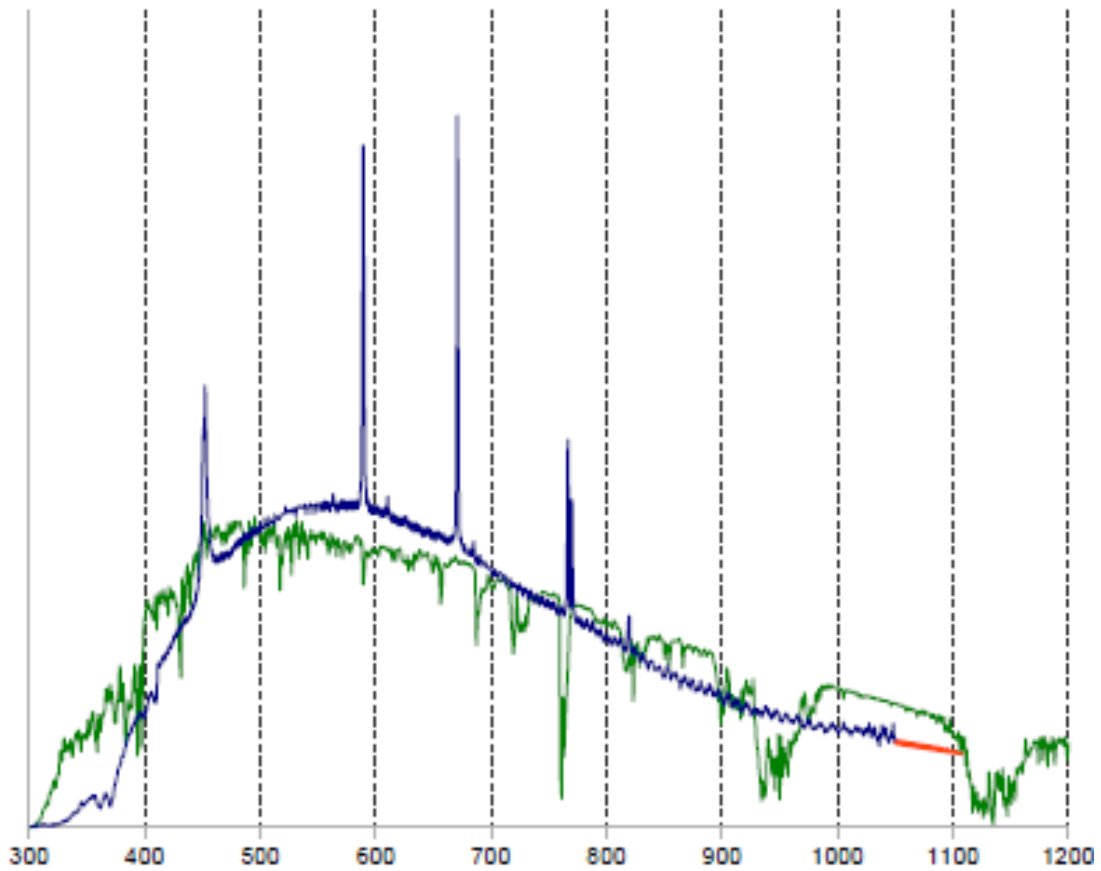
**Reference Cell Isc: 18.8 [mA]**

- This information is indicative, following the manufacturing batch, the parameters may change slightly.
- Reference Cell Isc measurement it's performed at 50cm with a reproducible setup. Use this value for compare the relative energetic performance between the bulbs.



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# Bulb M41 at 1300W

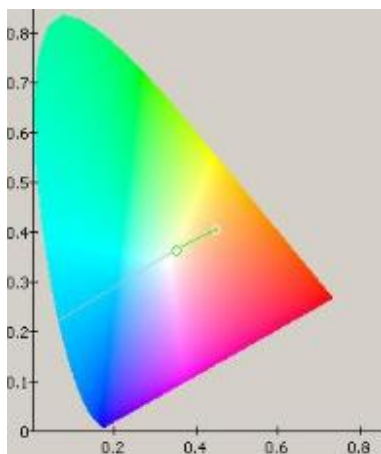


— Normalized measured spectrum — AM 1.5 Spectral Irradiance normalized (400-1100nm)  
 — Polynomial extrapolation

Wavelength range	AM1.5 ratio	Spectrum ratio	Mismatch	Class
400-500 nm	18.4	15.0	0.82	A
500-600 nm	19.91	21.8	1.10	A
600-700 nm	18.36	20.7	1.13	A
700-800 nm	14.92	16.2	1.09	A
800-900 nm	12.46	11.5	0.92	A
900-1100 nm	15.94	14.7	0.93	A

Class A	Class B	Class C
0.75	0.60	0.40
1.25	1.40	2.00

## Lighting characteristics



**Color temperature = 4740 K**

**Color Render Index = 95.4 [-]**

**Colors coordinate: x = 0.354 y = 0.363**

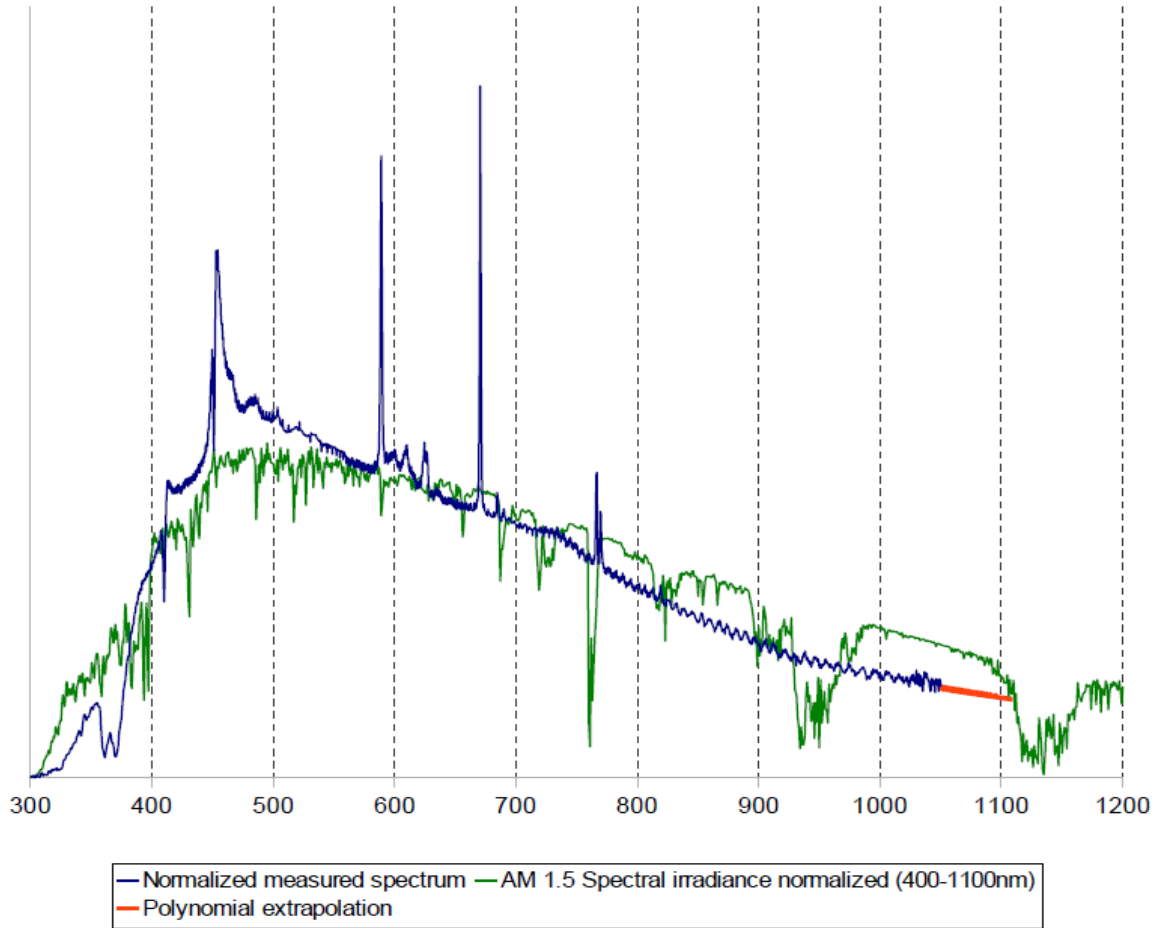
**Reference Cell Isc: 24.2 [mA]**

- This information is indicative, following the manufacturing batch, the parameters may change slightly.
- Reference Cell Isc measurement it's performed at 50cm with a reproducible setup. Use this value for compare the relative energetic performance between the bulbs.





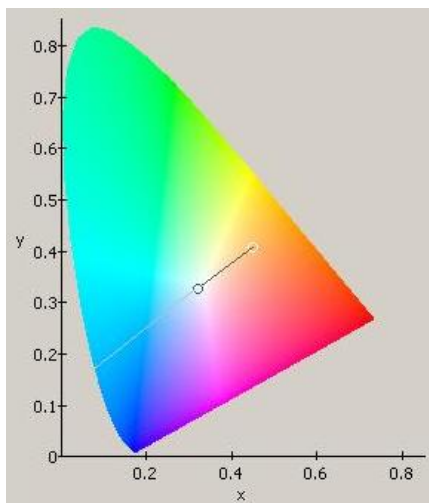
# Bulb M45 at 1000W



Wavelentgh range	AM1.5 ratio	Spectrum ratio	Mismatch	Class
400-500 nm	18.4	20.3	1.10	A
500-600 nm	19.91	21.2	1.06	A
600-700 nm	18.36	18.5	1.01	A
700-800 nm	14.92	15.0	1.01	A
800-900 nm	12.46	10.8	0.87	A
900-1100 nm	15.94	14.2	0.89	A

Class A	Class B	Class C
0.75	0.60	0.40
1.25	1.40	2.00

## Lighting characteristics



Color temperature = 6050 K

Color Render Index = 96.6 [-]

Colors coordinate:  $x = 0.321$   $y = 0.327$

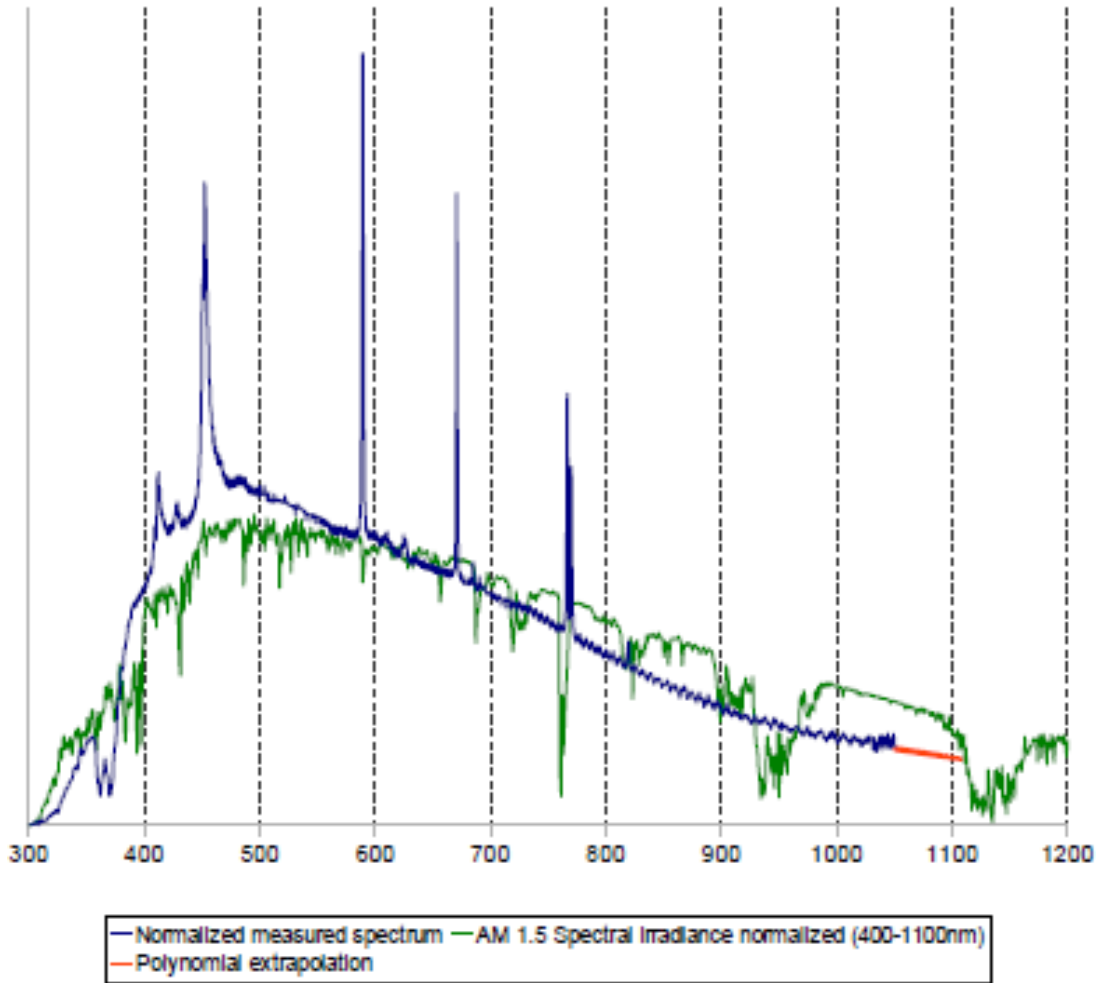
Reference Cell Isc: 16.6 [mA]

- This information is indicative, following the manufacturing batch, the parameters may change slightly.
- Reference Cell Isc measurement it's performed at 50cm with a reproducible setup. Use this value for compare the relative energetic performance between the bulbs.



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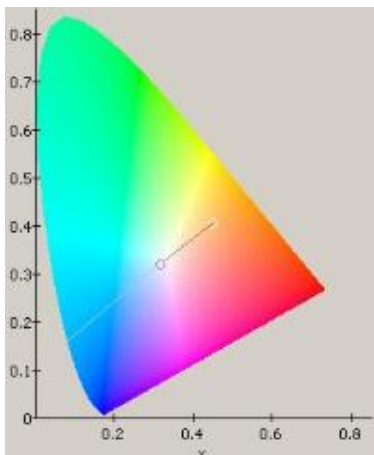
# Bulb M47 at 800W



Wavelength range	AM1.5 ratio	Spectrum ratio	Mismatch	Class
400-500 nm	18.4	22.1	1.20	A
500-600 nm	19.91	21.5	1.08	A
600-700 nm	18.36	18.2	0.99	A
700-800 nm	14.92	14.8	0.99	A
800-900 nm	12.46	10.3	0.83	A
900-1100 nm	15.94	13.1	0.82	A

Class A	Class B	Class C
0.75	0.60	0.40
1.25	1.40	2.00

## Lighting characteristics



**Color temperature = 6270 K**

**Color Render Index = 96.6 [-]**

**Colors coordinate: x = 0.318 y = 0.320**

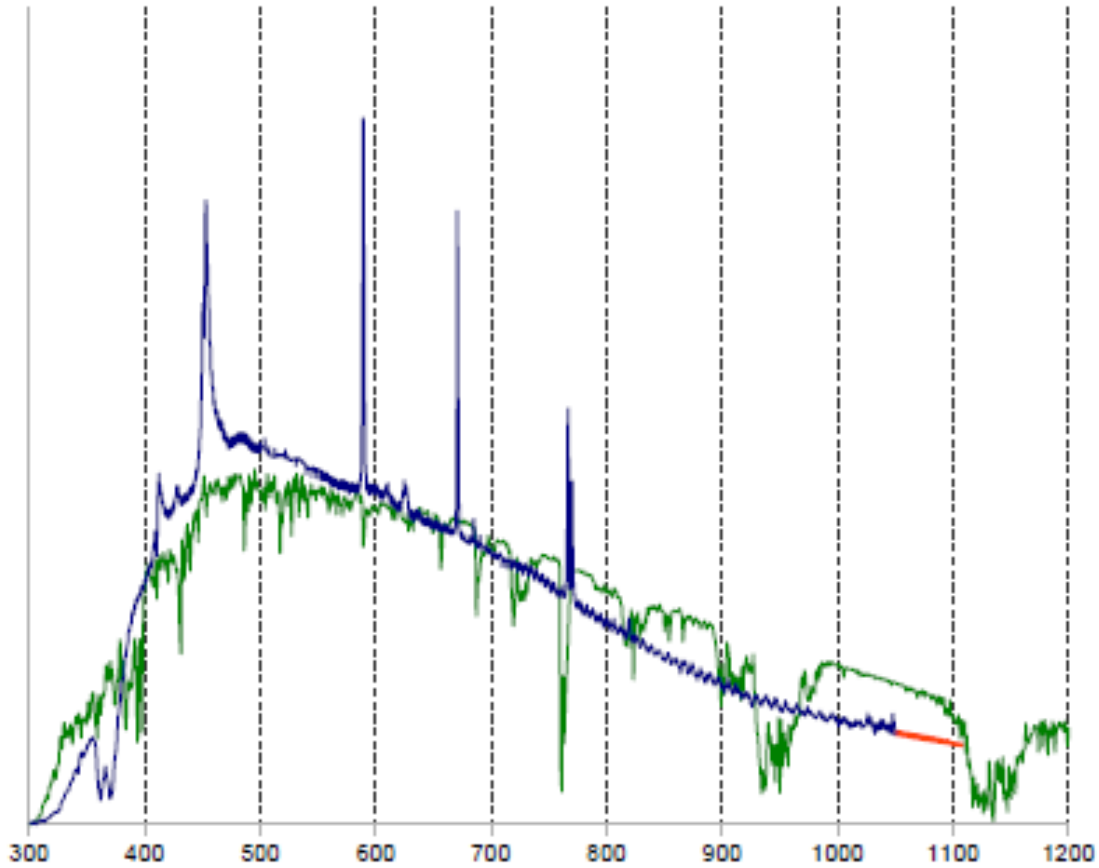
**Reference Cell Isc: 13.2 [mA]**

- This information is indicative, following the manufacturing batch, the parameters may change slightly.
- Reference Cell Isc measurement it's performed at 50cm with a reproducible setup. Use this value for compare the relative energetic performance between the bulbs.



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# Bulb M47 at 1000W

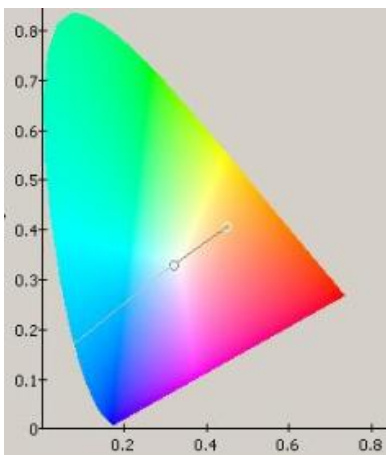


— Normalized measured spectrum — AM 1.5 Spectral Irradiance normalized (400-1100nm)  
 — Polynomial extrapolation

Wavelength range	AM1.5 ratio	Spectrum ratio	Mismatch	Class
400-500 nm	18.4	20.6	1.12	A
500-600 nm	19.91	21.3	1.07	A
600-700 nm	18.36	18.6	1.01	A
700-800 nm	14.92	15.1	1.01	A
800-900 nm	12.46	10.7	0.86	A
900-1100 nm	15.94	13.7	0.86	A

Class A	Class B	Class C
0.75	0.60	0.40
1.25	1.40	2.00

## Lighting characteristics



**Color temperature = 5990 K**

**Color Render Index = 97.2 [-]**

**Colors coordinate: x = 0.323 y = 0.328**

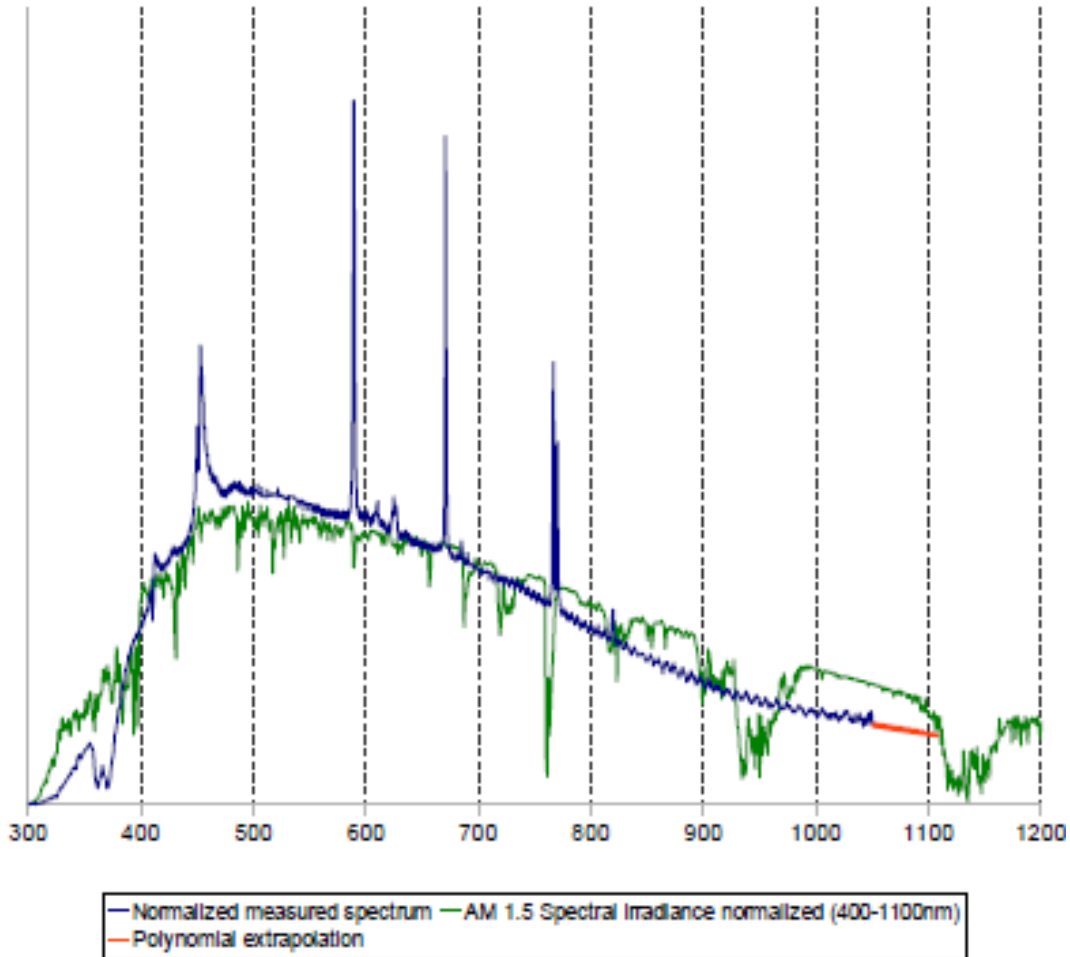
**Reference Cell Isc: 18.4 [mA]**

- This information is indicative, following the manufacturing batch, the parameters may change slightly.
- Reference Cell Isc measurement it's performed at 50cm with a reproducible setup. Use this value for compare the relative energetic performance between the bulbs.



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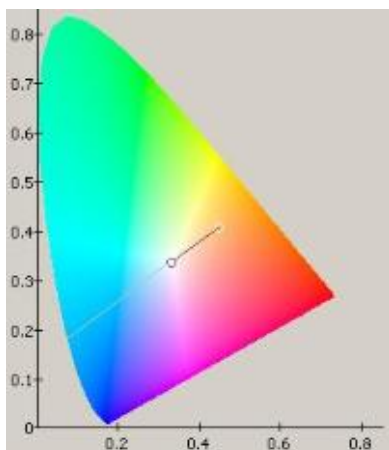
# Bulb M47 at 1300W



Wavelength range	AM1.5 ratio	Spectrum ratio	Mismatch	Class
400-500 nm	18.4	18.9	1.03	A
500-600 nm	19.91	21.4	1.08	A
600-700 nm	18.36	19.1	1.04	A
700-800 nm	14.92	15.5	1.04	A
800-900 nm	12.46	11.0	0.88	A
900-1100 nm	15.94	14.1	0.88	A

Class A	Class B	Class C
0.75	0.60	0.40
1.25	1.40	2.00

## Lighting characteristics



**Color temperature = 5504 K**

**Color Render Index = 96.8 [-]**

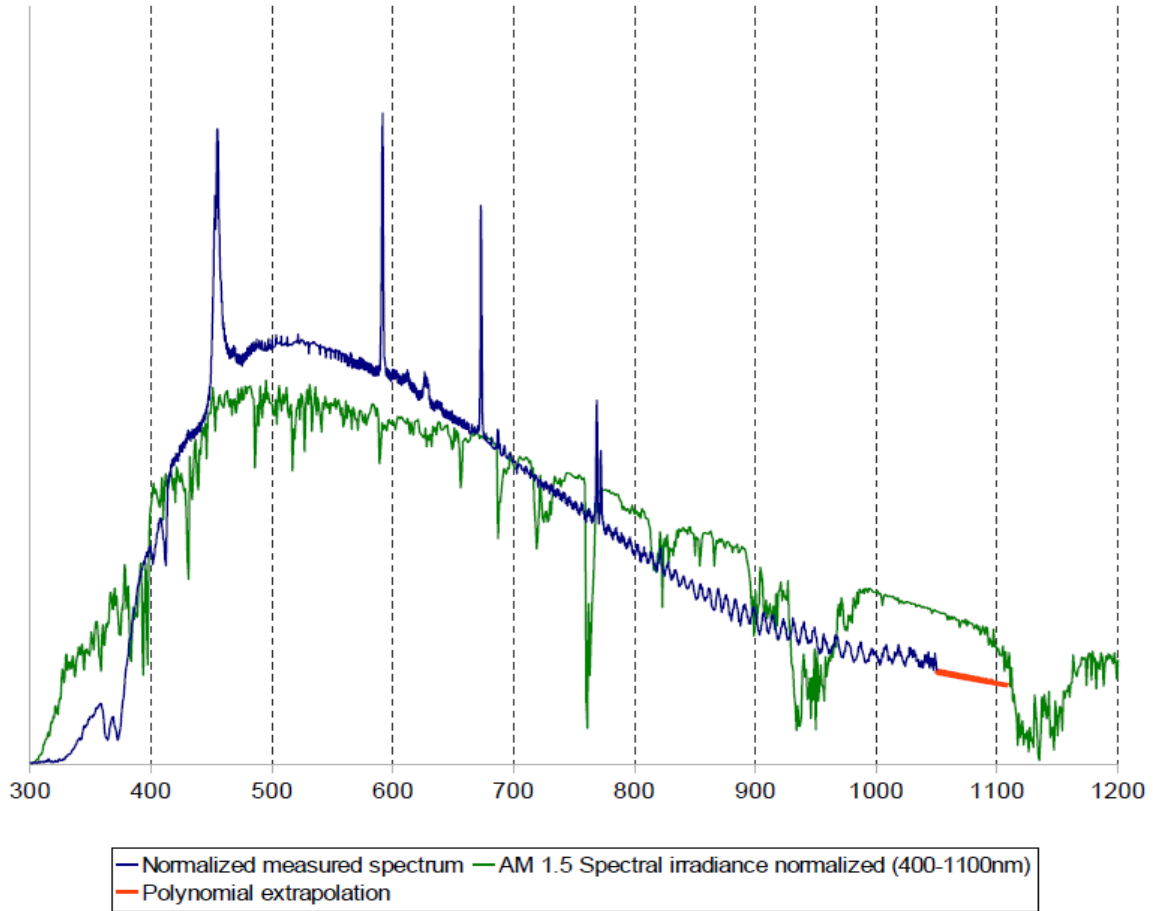
**Colors coordinate: x = 0.332 y = 0.337**

**Reference Cell Isc: 26 [mA]**

- This information is indicative, following the manufacturing batch, the parameters may change slightly.
- Reference Cell Isc measurement it's performed at 50cm with a reproducible setup. Use this value for compare the relative energetic performance between the bulbs.



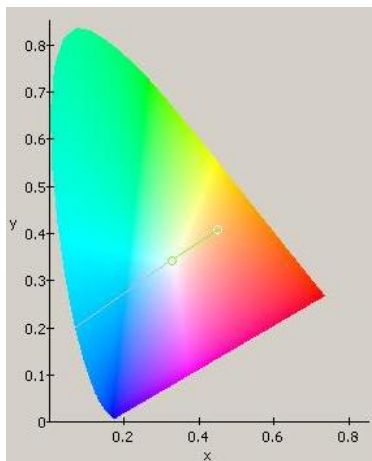
# Bulb M48 at 1000W



Wavelength range	AM1.5 ratio	Spectrum ratio	Mismatch	Class
400-500 nm	18.4	18.9	1.03	A
500-600 nm	19.91	22.7	1.14	A
600-700 nm	18.36	19.8	1.08	A
700-800 nm	14.92	15.1	1.01	A
800-900 nm	12.46	10.4	0.83	A
900-1100 nm	15.94	13.2	0.83	A

Class A	Class B	Class C
0.75	0.60	0.40
1.25	1.40	2.00

### Lighting characteristics



**Color temperature = 5650 K**

**Color Render Index = 99.0 [-]**

**Colors coordinate: x = 0.329 y = 0.342**

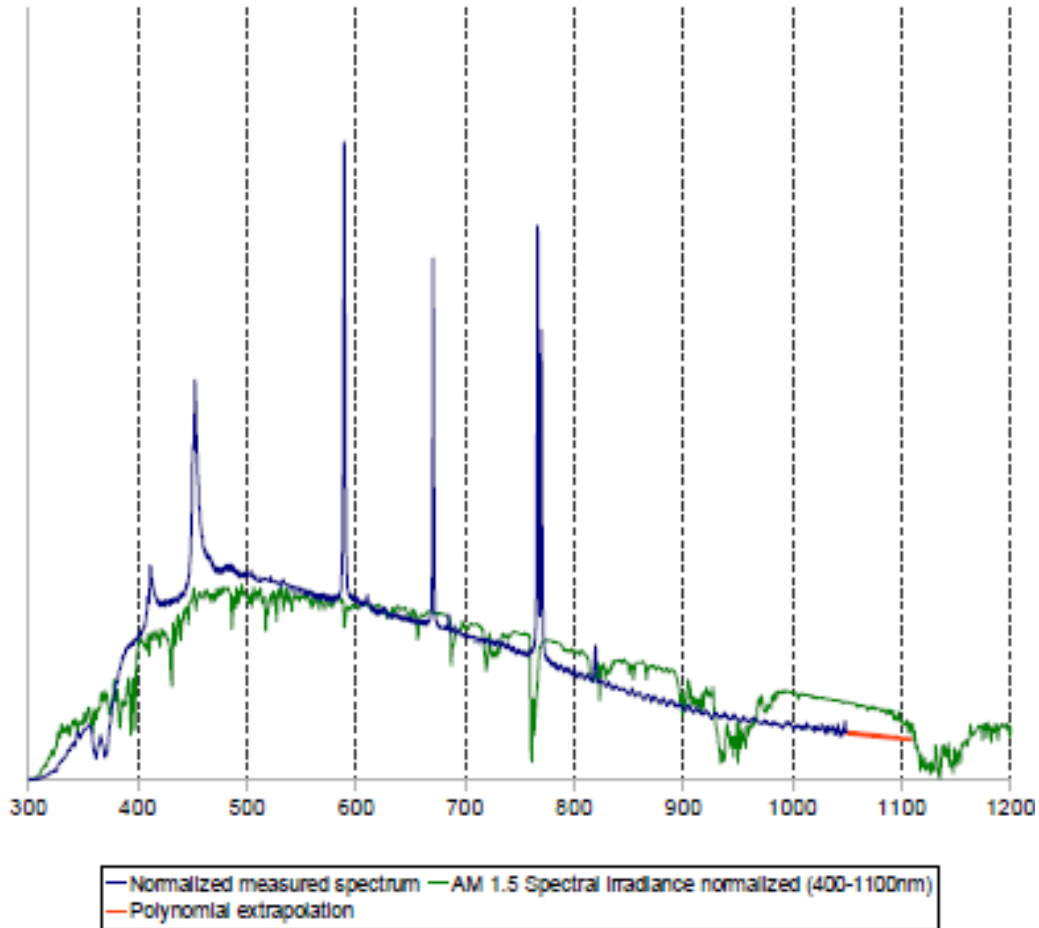
**Reference Cell Isc: 21.5 [mA]**

- This information is indicative, following the manufacturing batch, the parameters may change slightly.
- Reference Cell Isc measurement it's performed at 50cm with a reproducible setup. Use this value for compare the relative energetic performance between the bulbs.



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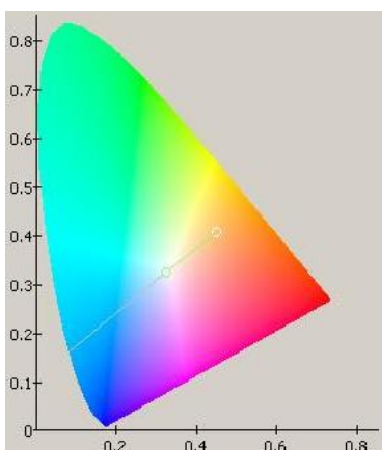
# Bulb M49-3 at 800W



Wavelength range	AM1.5 ratio	Spectrum ratio	Mismatch	Class
400-500 nm	18.4	21.3	1.15	A
500-600 nm	19.91	21.5	1.08	A
600-700 nm	18.36	18.3	1.00	A
700-800 nm	14.92	15.7	1.05	A
800-900 nm	12.46	10.3	0.83	A
900-1100 nm	15.94	12.9	0.81	A

Class A	Class B	Class C
0.75	0.60	0.40
1.25	1.40	2.00

## Lighting characteristics



**Color temperature = 5965 K**

**Color Render Index = 95.9 [-]**

**Colors coordinate: x = 0.323 y = 0.324**

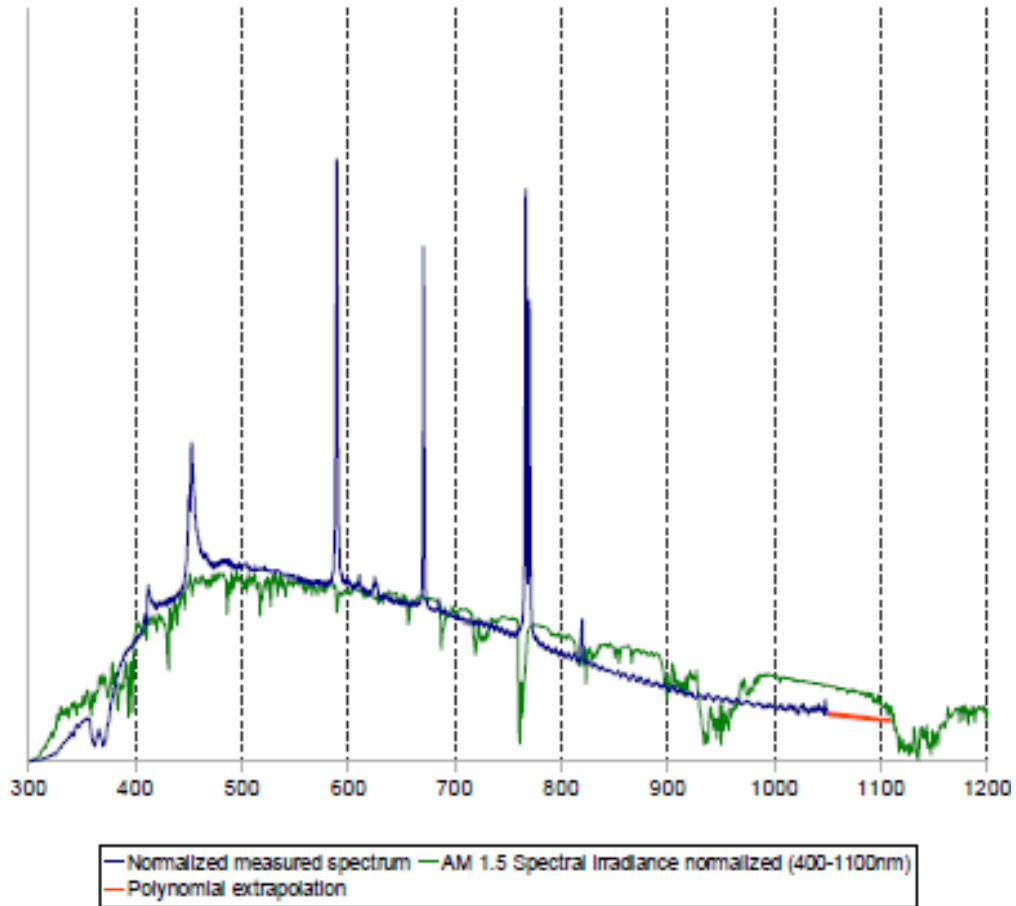
**Reference Cell Isc: 13.3 [mA]**

- This information is indicative, following the manufacturing batch, the parameters may change slightly.
- Reference Cell Isc measurement it's performed at 50cm with a reproducible setup. Use this value for compare the relative energetic performance between the bulbs.



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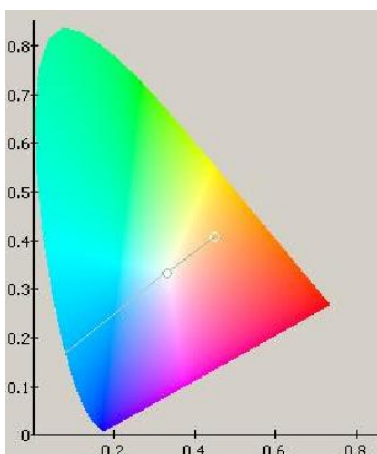
# Bulb M49-3 at 1000W



Wavelength range	AM1.5 ratio	Spectrum ratio	Mismatch	Class
400-500 nm	18.4	19.4	1.06	A
500-600 nm	19.91	21.4	1.08	A
600-700 nm	18.36	18.7	1.02	A
700-800 nm	14.92	16.4	1.10	A
800-900 nm	12.46	10.7	0.85	A
900-1100 nm	15.94	13.4	0.84	A

Class A	Class B	Class C
0.75	0.60	0.40
1.25	1.40	2.00

## Lighting characteristics



**Color temperature = 5508 K**

**Color Render Index = 95.6 [-]**

**Colors coordinate: x = 0.332 y = 0.333**

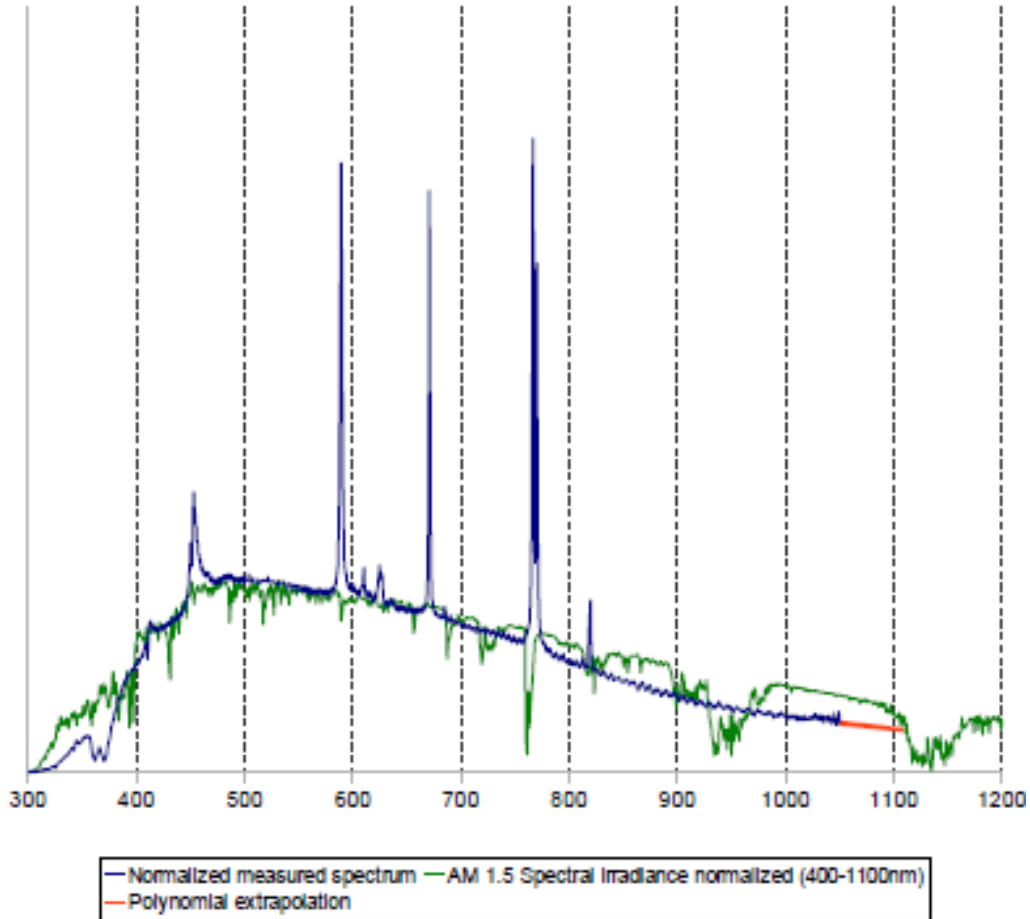
**Reference Cell Isc: 19.6 [mA]**

- This information is indicative, following the manufacturing batch, the parameters may change slightly.
- Reference Cell Isc measurement it's performed at 50cm with a reproducible setup. Use this value for compare the relative energetic performance between the bulbs.



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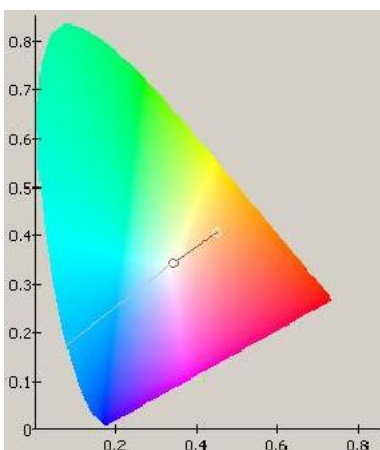
# Bulb M49-3 at 1300W



Wavelength range	AM1.5 ratio	Spectrum ratio	Mismatch	Class
400-500 nm	18.4	17.9	0.97	A
500-600 nm	19.91	21.4	1.07	A
600-700 nm	18.36	19.3	1.05	A
700-800 nm	14.92	16.9	1.13	A
800-900 nm	12.46	10.9	0.87	A
900-1100 nm	15.94	13.6	0.85	A

Class A	Class B	Class C
0.75	0.60	0.40
1.25	1.40	2.00

## Lighting characteristics



**Color temperature = 5058 K**

**Color Render Index = 94.5 [-]**

**Colors coordinate: x = 0.343 y = 0.342**

**Reference Cell Isc: 26.8 [mA]**

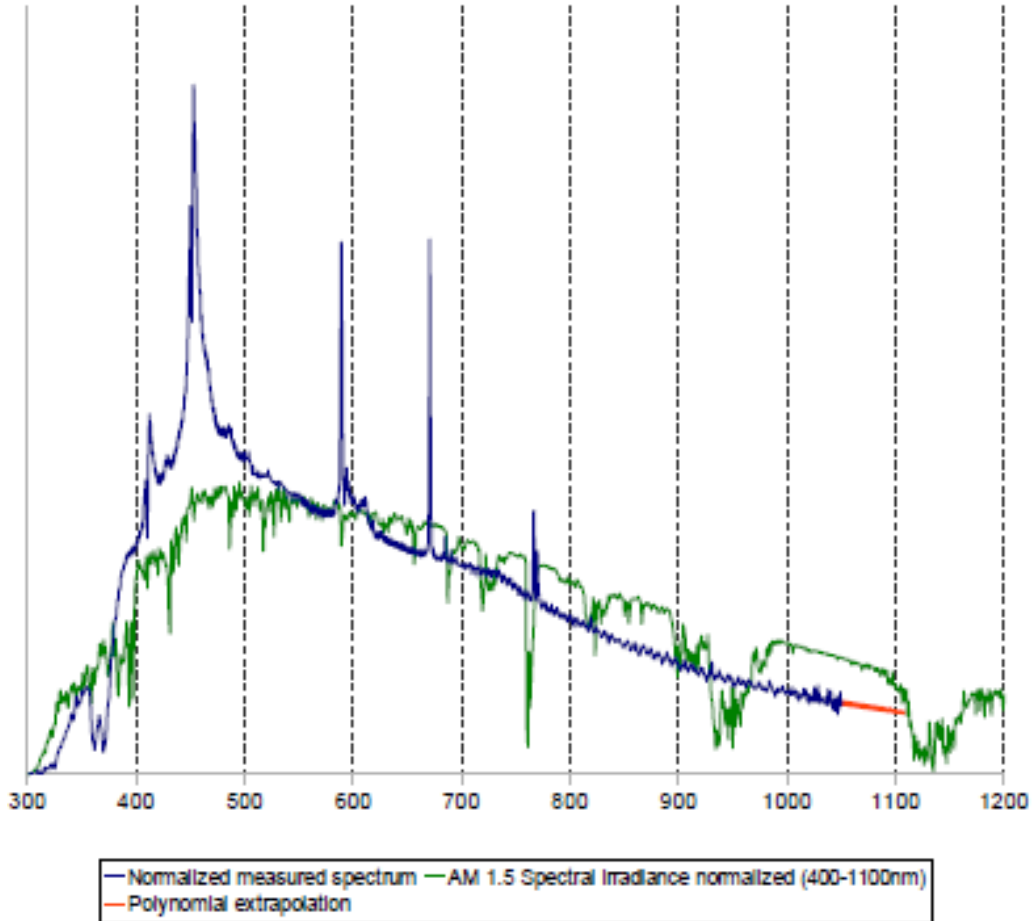
- This information is indicative, following the manufacturing batch, the parameters may change slightly.
- Reference Cell Isc measurement it's performed at 50cm with a reproducible setup. Use this value for compare the relative energetic performance between the bulbs.





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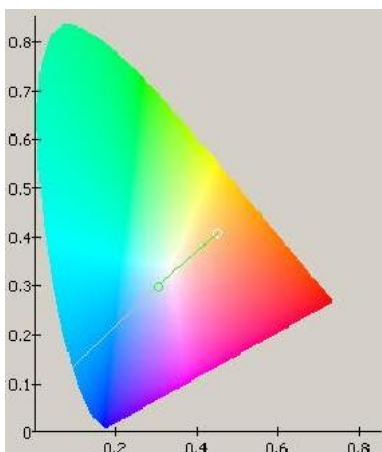
# Bulb M53 at 800W



Wavelength range	AM1.5 ratio	Spectrum ratio	Mismatch	Class
400-500 nm	18.4	24.7	1.34	B
500-600 nm	19.91	20.7	1.04	A
600-700 nm	18.36	17.4	0.95	A
700-800 nm	14.92	14.1	0.95	A
800-900 nm	12.46	10.1	0.81	A
900-1100 nm	15.94	13.0	0.82	A

Class A	Class B	Class C
0.75	0.60	0.40
1.25	1.40	2.00

## Lighting characteristics



**Color temperature = 7529 K**

**Color Render Index = 93.7 [-]**

**Colors coordinate: x = 0.303 y = 0.298**

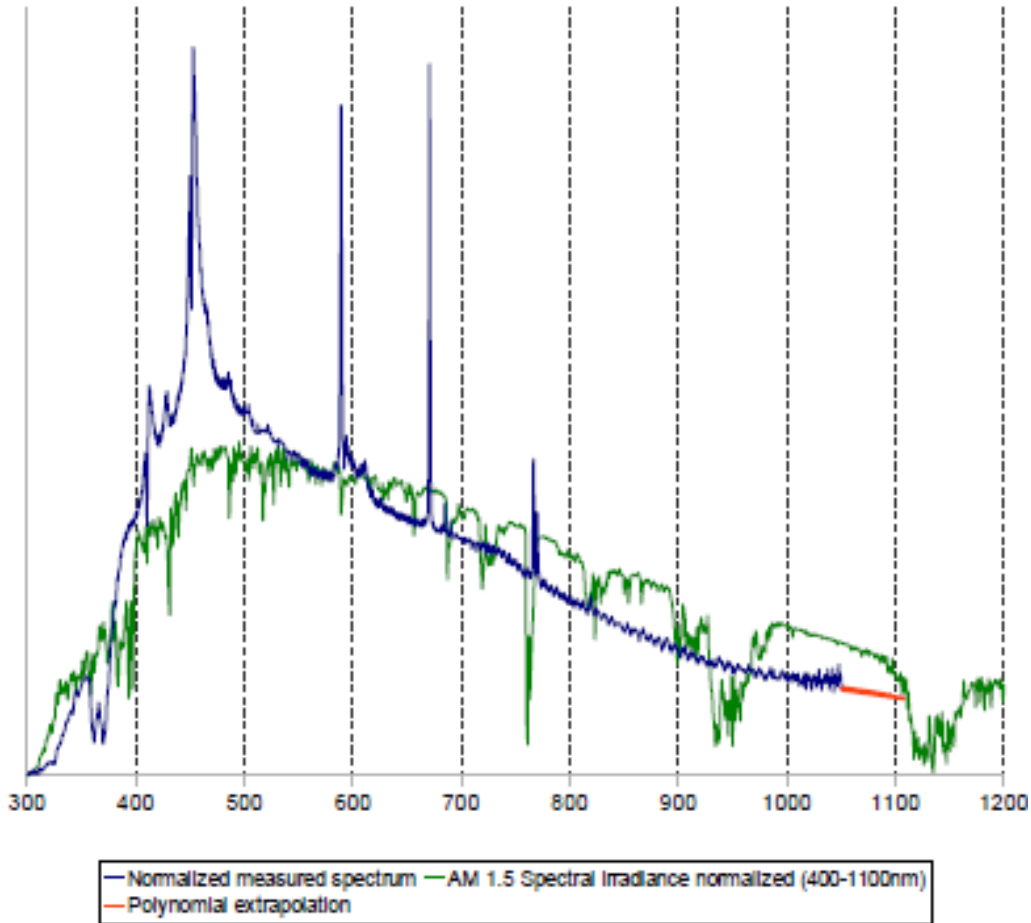
**Reference Cell Isc: 5.3 [mA]**

- This information is indicative, following the manufacturing batch, the parameters may change slightly.
- Reference Cell Isc measurement it's performed at 50cm with a reproducible setup. Use this value for compare the relative energetic performance between the bulbs.



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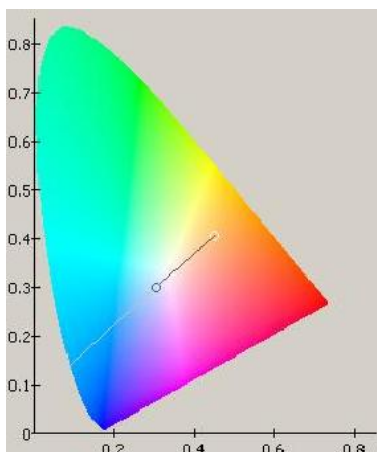
# Bulb M53 at 1000W



Wavelength range	AM1.5 ratio	Spectrum ratio	Mismatch	Class
400-500 nm	18.4	24.2	1.31	B
500-600 nm	19.91	20.9	1.05	A
600-700 nm	18.36	17.4	0.95	A
700-800 nm	14.92	14.0	0.94	A
800-900 nm	12.46	10.0	0.80	A
900-1100 nm	15.94	13.6	0.85	A

Class A	Class B	Class C
0.75	0.60	0.40
1.25	1.40	2.00

## Lighting characteristics



**Color temperature = 7366 K**

**Color Render Index = 94.7 [-]**

**Colors coordinate: x = 0.304 y = 0.302**

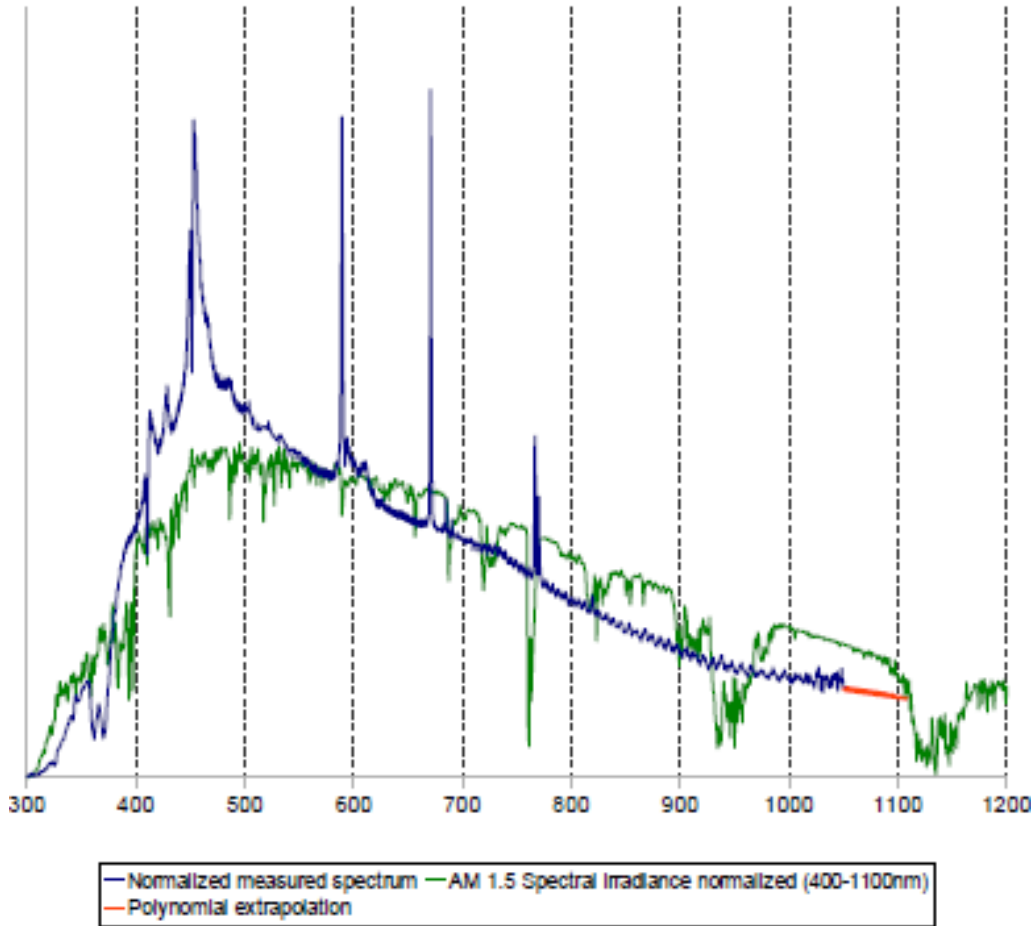
**Reference Cell Isc: 8 [mA]**

- This information is indicative, following the manufacturing batch, the parameters may change slightly.
- Reference Cell Isc measurement it's performed at 50cm with a reproducible setup. Use this value for compare the relative energetic performance between the bulbs.



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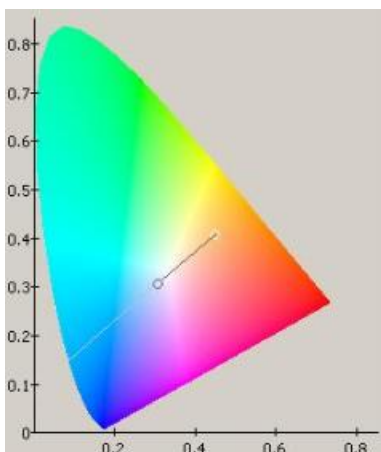
# Bulb M53 at 1300W



Wavelength range	AM1.5 ratio	Spectrum ratio	Mismatch	Class
400-500 nm	18.4	23.5	1.28	B
500-600 nm	19.91	21.1	1.06	A
600-700 nm	18.36	17.5	0.95	A
700-800 nm	14.92	14.1	0.94	A
800-900 nm	12.46	10.1	0.81	A
900-1100 nm	15.94	13.7	0.86	A

Class A	Class B	Class C
0.75	0.60	0.40
1.25	1.40	2.00

## Lighting characteristics



Color temperature = 7102 K

Color Render Index = 95.5 [-]

Colors coordinate:  $x = 0.307$   $y = 0.307$

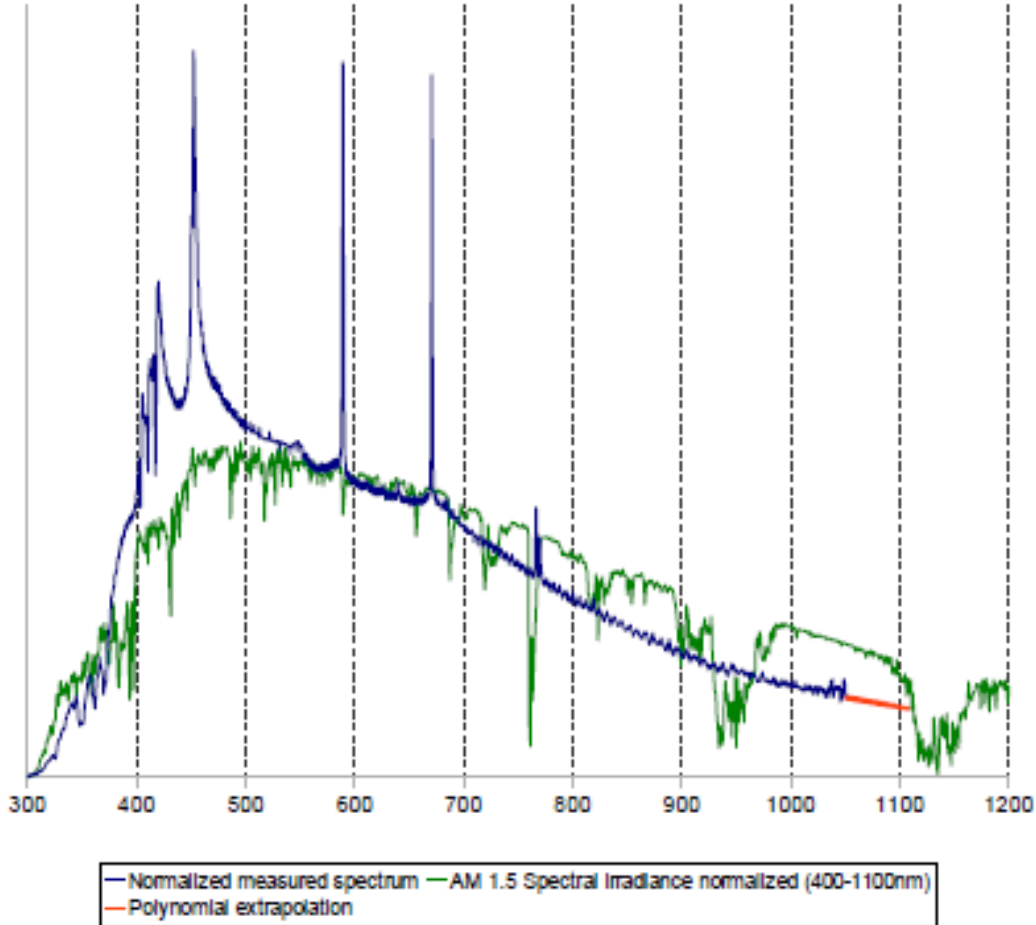
Reference Cell Isc: 12 [mA]

- This information is indicative, following the manufacturing batch, the parameters may change slightly.
- Reference Cell Isc measurement it's performed at 50cm with a reproducible setup. Use this value for compare the relative energetic performance between the bulbs.



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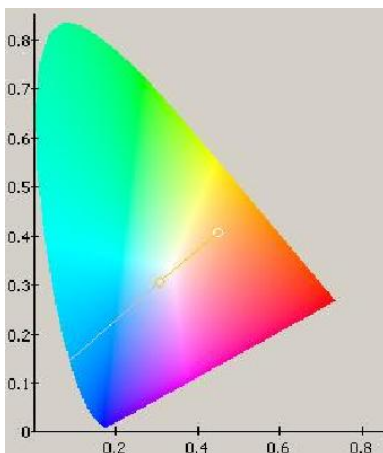
# Bulb M54 at 800W



Wavelength range	AM1.5 ratio	Spectrum ratio	Mismatch	Class
400-500 nm	18.4	24.2	1.32	B
500-600 nm	19.91	20.8	1.05	A
600-700 nm	18.36	18.0	0.98	A
700-800 nm	14.92	14.1	0.95	A
800-900 nm	12.46	10.0	0.80	A
900-1100 nm	15.94	12.8	0.80	A

Class A	Class B	Class C
0.75	0.60	0.40
1.25	1.40	2.00

## Lighting characteristics



**Color temperature = 6982 K**

**Color Render Index = 94.9 [-]**

**Colors coordinate: x = 0.309 y = 0.307**

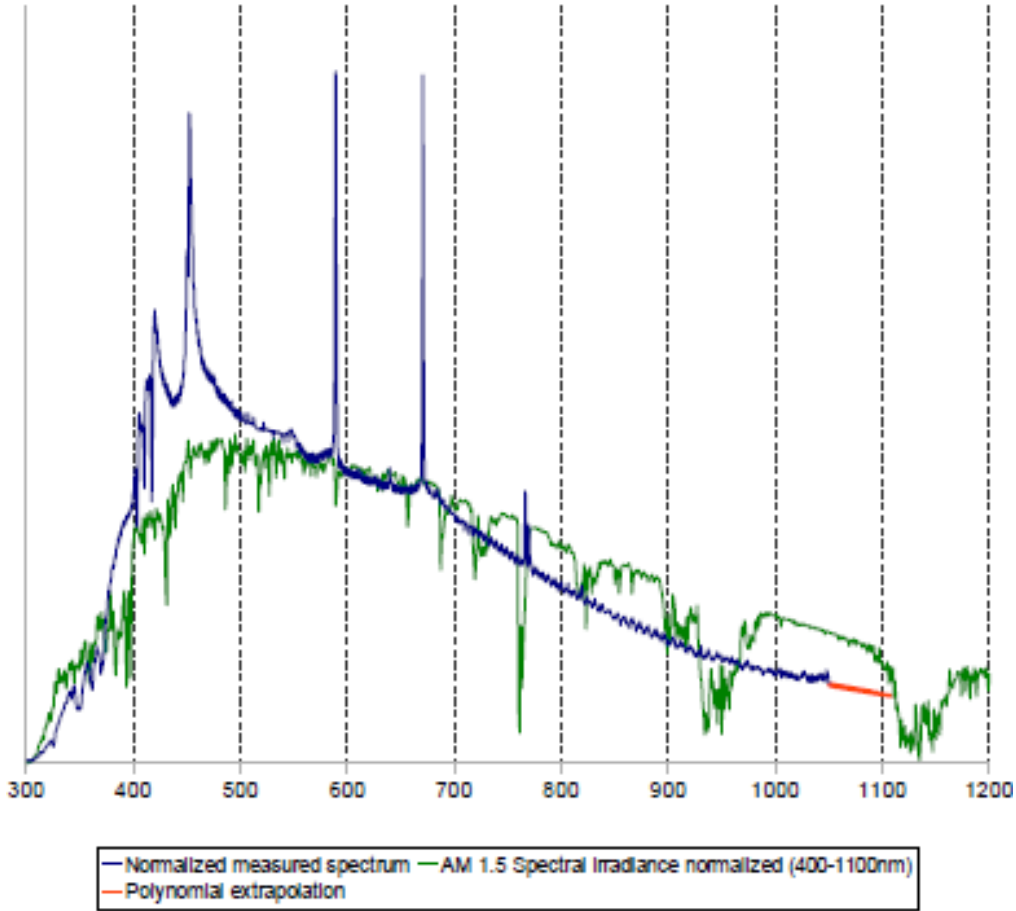
**Reference Cell Isc: 9.6 [mA]**

- This information is indicative, following the manufacturing batch, the parameters may change slightly.
- Reference Cell Isc measurement it's performed at 50cm with a reproducible setup. Use this value for compare the relative energetic performance between the bulbs.



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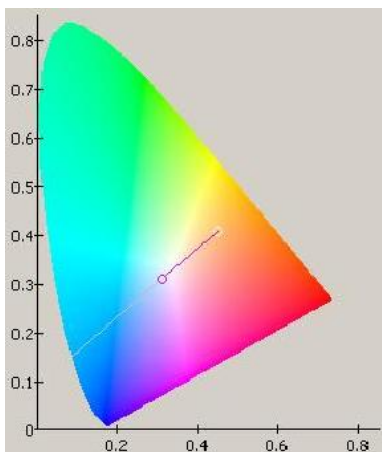
# Bulb M54 at 1000W



Wavelength range	AM1.5 ratio	Spectrum ratio	Mismatch	Class
400-500 nm	18.4	23.6	1.28	B
500-600 nm	19.91	21.0	1.05	A
600-700 nm	18.36	18.2	0.99	A
700-800 nm	14.92	14.2	0.95	A
800-900 nm	12.46	10.1	0.81	A
900-1100 nm	15.94	12.9	0.81	A

Class A	Class B	Class C
0.75	0.60	0.40
1.25	1.40	2.00

## Lighting characteristics



**Color temperature = 6850 K**

**Color Render Index = 95.3 [-]**

**Colors coordinate: x = 0.310 y = 0.309**

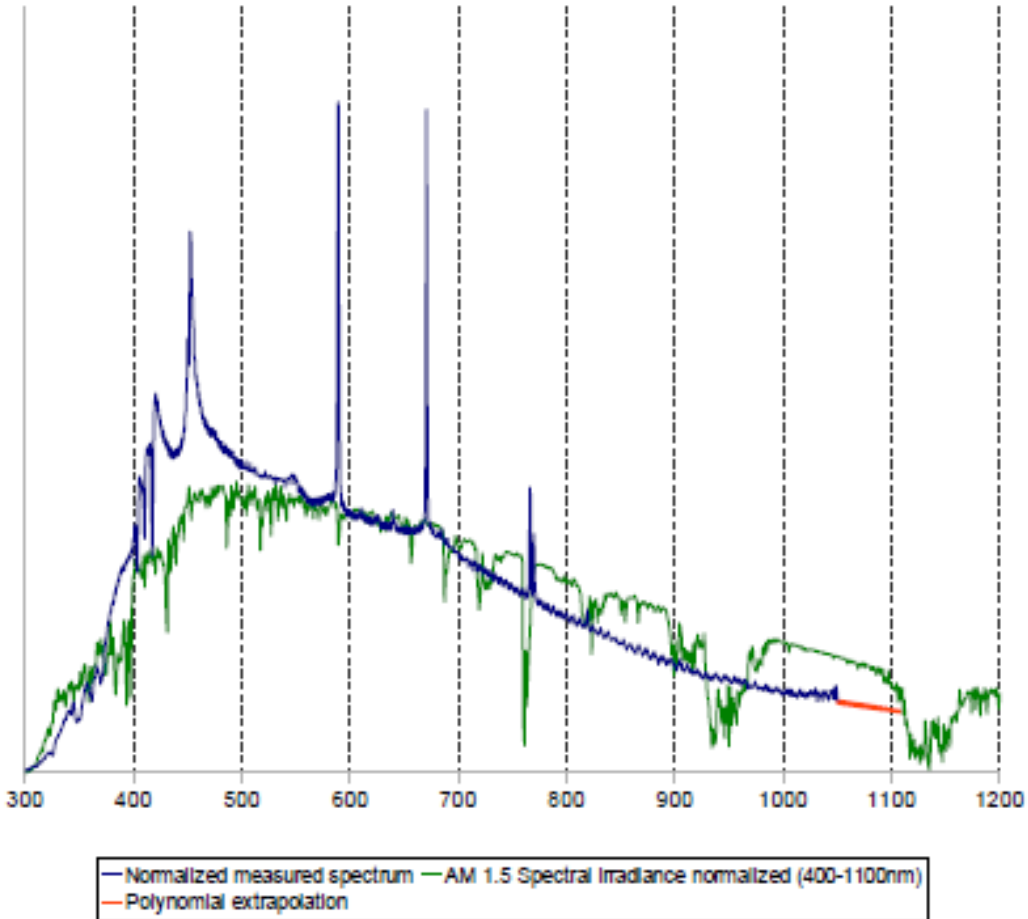
**Reference Cell Isc: 12.2 [mA]**

- This information is indicative, following the manufacturing batch, the parameters may change slightly.
- Reference Cell Isc measurement it's performed at 50cm with a reproducible setup. Use this value for compare the relative energetic performance between the bulbs.



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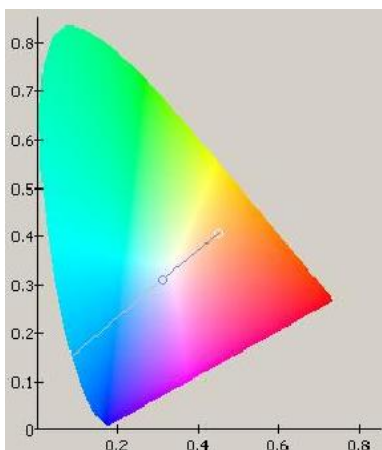
# Bulb M54 at 1300W



Wavelength range	AM1.5 ratio	Spectrum ratio	Mismatch	Class
400-500 nm	18.4	23.2	1.26	B
500-600 nm	19.91	21.2	1.06	A
600-700 nm	18.36	18.3	1.00	A
700-800 nm	14.92	14.2	0.95	A
800-900 nm	12.46	10.1	0.81	A
900-1100 nm	15.94	13.0	0.81	A

Class A	Class B	Class C
0.75	0.60	0.40
1.25	1.40	2.00

## Lighting characteristics



**Color temperature = 6686 K**

**Color Render Index = 95.7 [-]**

**Colors coordinate: x = 0.312 y = 0.312**

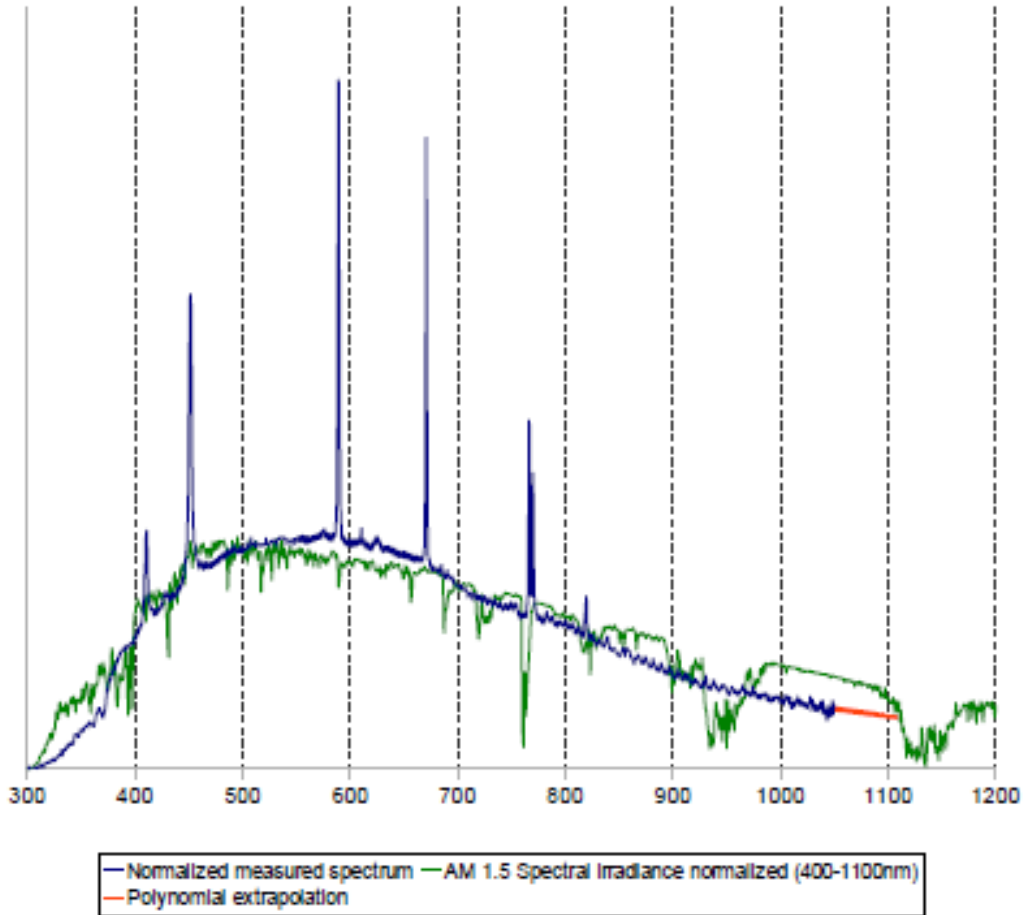
**Reference Cell Isc: 16.4 [mA]**

- This information is indicative, following the manufacturing batch, the parameters may change slightly.
- Reference Cell Isc measurement it's performed at 50cm with a reproducible setup. Use this value for compare the relative energetic performance between the bulbs.



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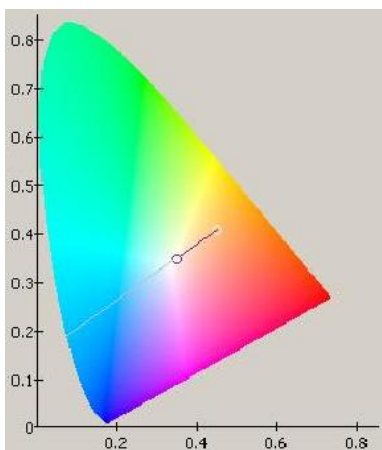
# Bulb M55 at 800W



Wavelength range	AM1.5 ratio	Spectrum ratio	Mismatch	Class
400-500 nm	18.4	17.2	0.93	A
500-600 nm	19.91	21.3	1.07	A
600-700 nm	18.36	20.2	1.10	A
700-800 nm	14.92	15.8	1.06	A
800-900 nm	12.46	11.6	0.93	A
900-1100 nm	15.94	13.9	0.87	A

Class A	Class B	Class C
0.75	0.60	0.40
1.25	1.40	2.00

## Lighting characteristics



**Color temperature = 4892 K**

**Color Render Index = 96.7 [-]**

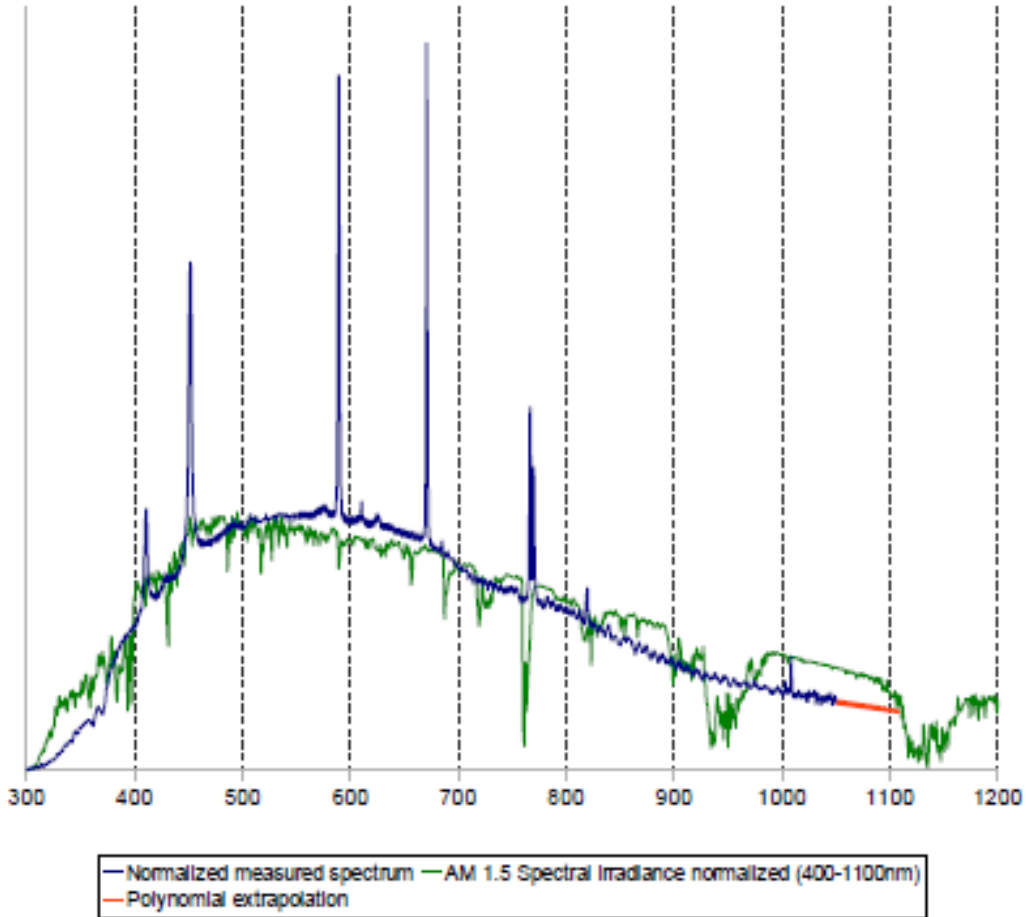
**Colors coordinate: x = 0.348 y = 0.349**

**Reference Cell Isc: 12.4 [mA]**

- This information is indicative, following the manufacturing batch, the parameters may change slightly.
- Reference Cell Isc measurement it's performed at 50cm with a reproducible setup. Use this value for compare the relative energetic performance between the bulbs.



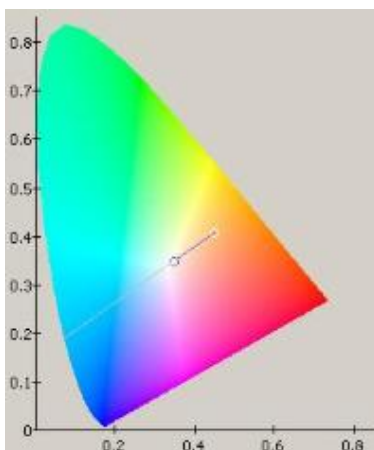
# Bulb M55 at 1000W



Wavelength range	AM1.5 ratio	Spectrum ratio	Mismatch	Class
400-500 nm	18.4	17.2	0.93	A
500-600 nm	19.91	21.2	1.07	A
600-700 nm	18.36	20.1	1.10	A
700-800 nm	14.92	15.7	1.05	A
800-900 nm	12.46	11.6	0.93	A
900-1100 nm	15.94	14.2	0.89	A

Class A	Class B	Class C
0.75	0.60	0.40
1.25	1.40	2.00

## Lighting characteristics



**Color temperature = 4918 K**

**Color Render Index = 96.7 [-]**

**Colors coordinate: x = 0.347 y = 0.349**

**Reference Cell Isc: 16.2 [mA]**

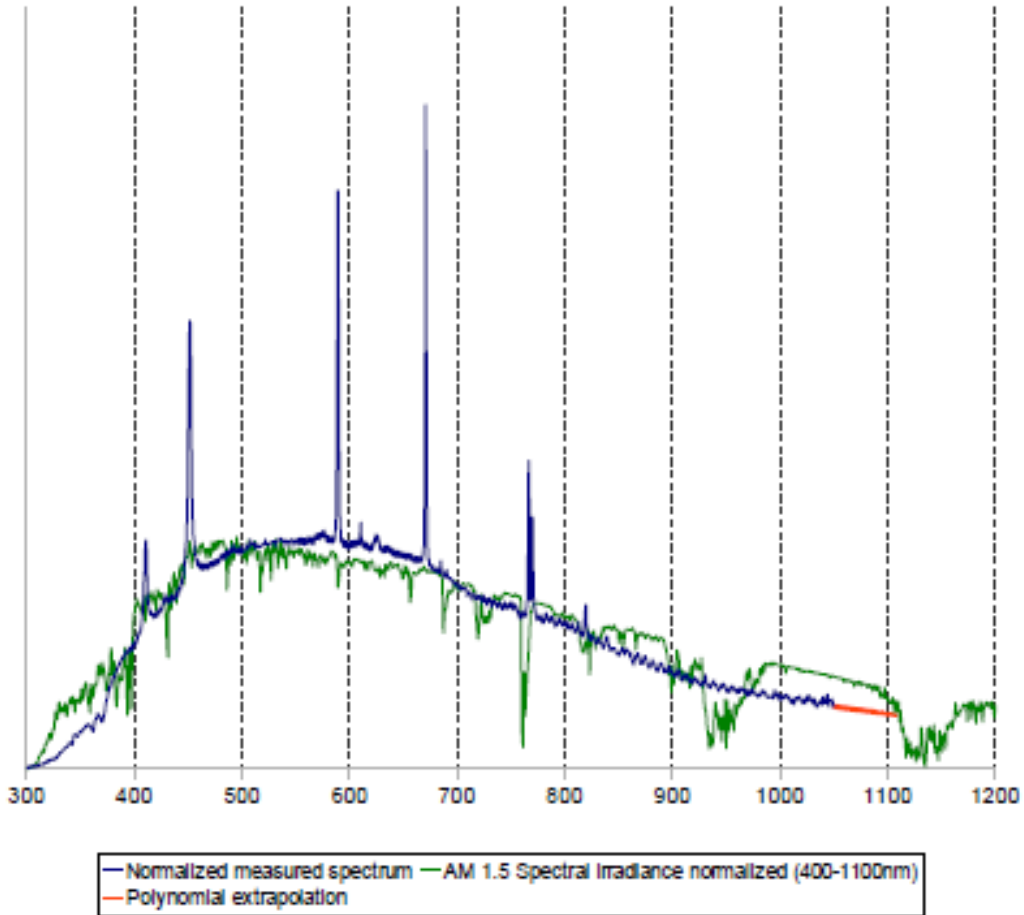
- This information is indicative, following the manufacturing batch, the parameters may change slightly.
- Reference Cell Isc measurement it's performed at 50cm with a reproducible setup. Use this value for compare the relative energetic performance between the bulbs.





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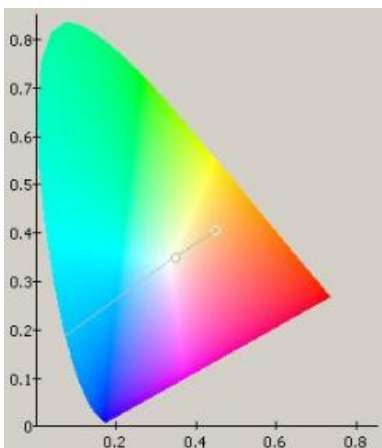
# Bulb M55 at 1300W



Wavelength range	AM1.5 ratio	Spectrum ratio	Mismatch	Class
400-500 nm	18.4	17.0	0.92	A
500-600 nm	19.91	21.1	1.06	A
600-700 nm	18.36	20.2	1.10	A
700-800 nm	14.92	15.7	1.05	A
800-900 nm	12.46	11.6	0.93	A
900-1100 nm	15.94	14.4	0.90	A

Class A	Class B	Class C
0.75	0.60	0.40
1.25	1.40	2.00

## Lighting characteristics



**Color temperature = 4899 K**

**Color Render Index = 97.0 [-]**

**Colors coordinate: x = 0.348 y = 0.349**

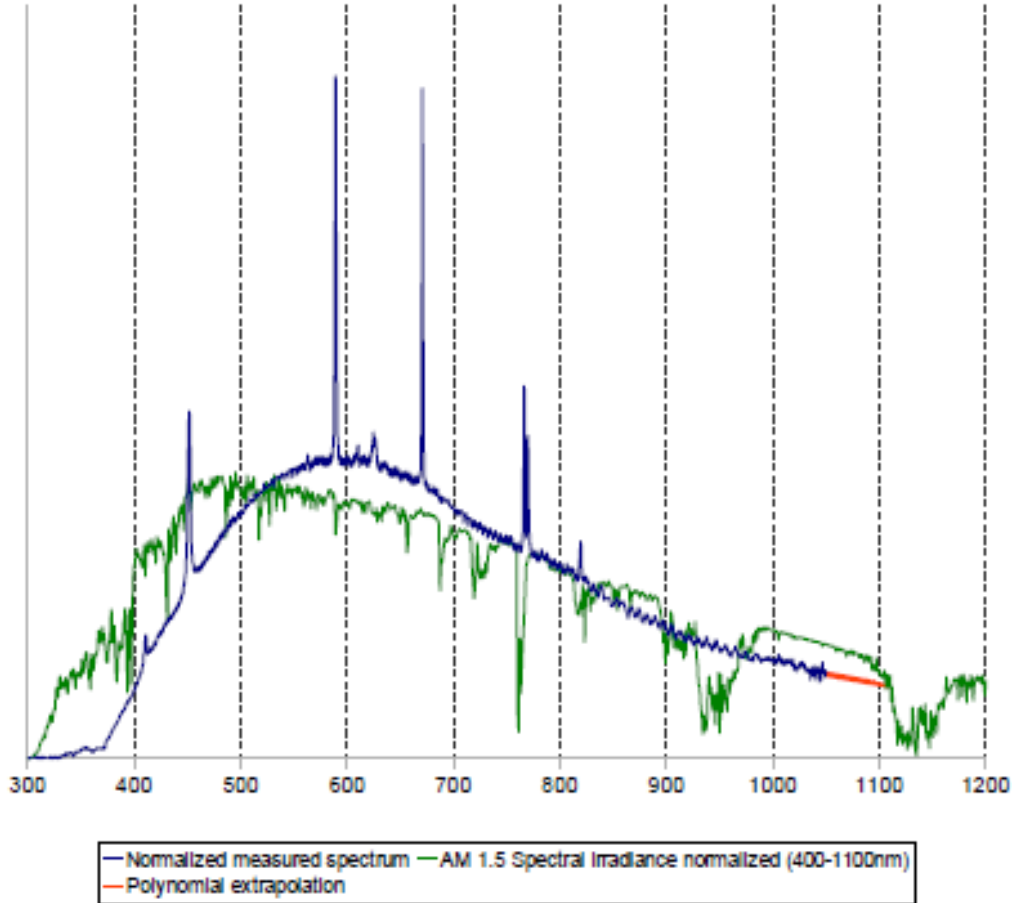
**Reference Cell Isc: 21.4 [mA]**

- This information is indicative, following the manufacturing batch, the parameters may change slightly.
- Reference Cell Isc measurement it's performed at 50cm with a reproducible setup. Use this value for compare the relative energetic performance between the bulbs.



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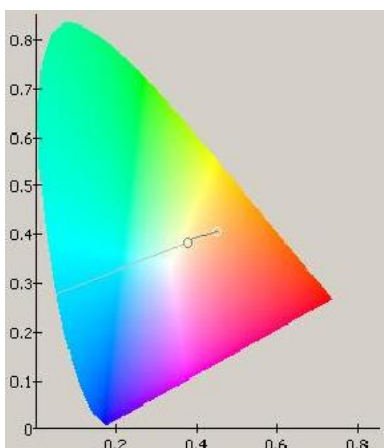
# Bulb M56 at 800W



Wavelength range	AM1.5 ratio	Spectrum ratio	Mismatch	Class
400-500 nm	18.4	11.6	0.63	B
500-600 nm	19.91	21.0	1.05	A
600-700 nm	18.36	21.7	1.18	A
700-800 nm	14.92	17.2	1.16	A
800-900 nm	12.46	12.6	1.01	A
900-1100 nm	15.94	15.8	0.99	A

Class A	Class B	Class C
0.75	0.60	0.40
1.25	1.40	2.00

## Lighting characteristics



**Color temperature = 4130 K**

**Color Render Index = 94.5 [-]**

**Colors coordinate: x = 0.378 y = 0.384**

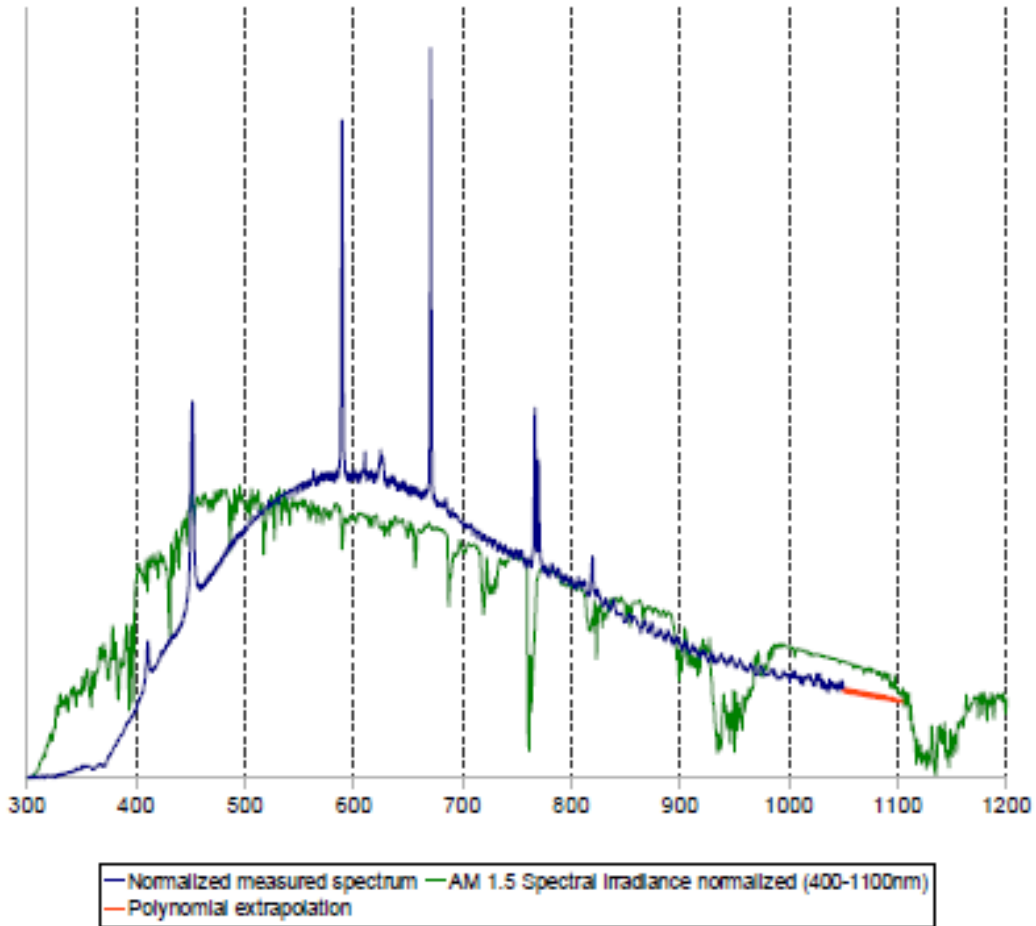
**Reference Cell Isc: 14.1 [mA]**

- This information is indicative, following the manufacturing batch, the parameters may change slightly.
- Reference Cell Isc measurement it's performed at 50cm with a reproducible setup. Use this value for compare the relative energetic performance between the bulbs.



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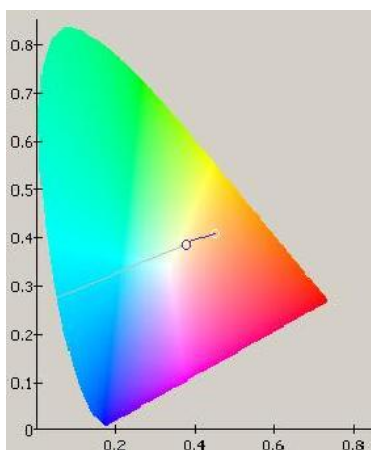
# Bulb M56 at 1000W



Wavelength range	AM1.5 ratio	Spectrum ratio	Mismatch	Class
400-500 nm	18.4	11.5	0.63	B
500-600 nm	19.91	20.7	1.04	A
600-700 nm	18.36	21.6	1.18	A
700-800 nm	14.92	17.2	1.16	A
800-900 nm	12.46	12.7	1.02	A
900-1100 nm	15.94	16.1	1.01	A

Class A	Class B	Class C
0.75	0.60	0.40
1.25	1.40	2.00

## Lighting characteristics



**Color temperature = 4119 K**

**Color Render Index = 94.6 [-]**

**Colors coordinate: x = 0.378 y = 0.384**

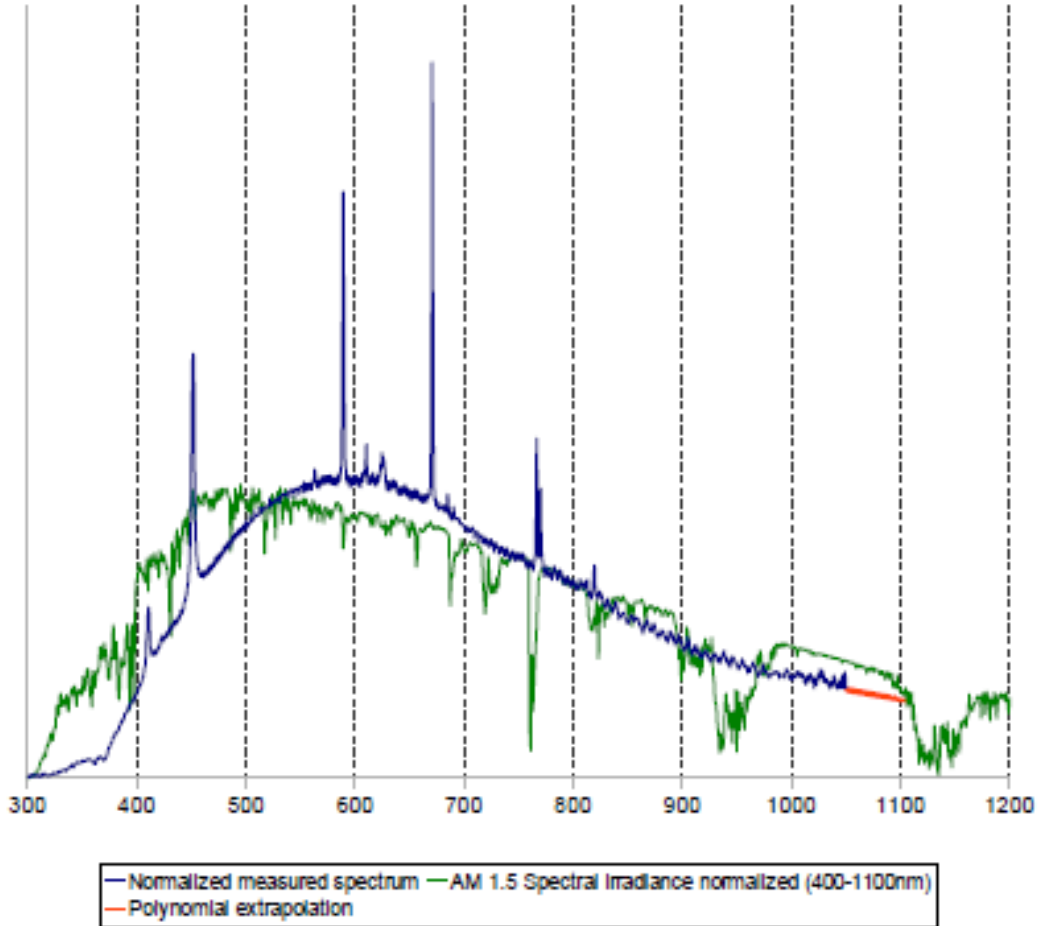
**Reference Cell Isc: 17.8 [mA]**

- This information is indicative, following the manufacturing batch, the parameters may change slightly.
- Reference Cell Isc measurement it's performed at 50cm with a reproducible setup. Use this value for compare the relative energetic performance between the bulbs.



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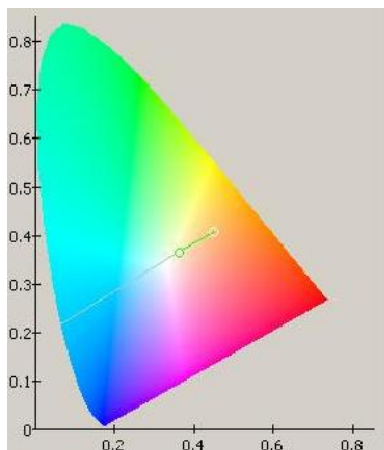
# Bulb M56 at 1300W



Wavelength range	AM1.5 ratio	Spectrum ratio	Mismatch	Class
400-500 nm	18.4	12.6	0.68	B
500-600 nm	19.91	20.6	1.03	A
600-700 nm	18.36	21.3	1.16	A
700-800 nm	14.92	16.9	1.13	A
800-900 nm	12.46	12.6	1.01	A
900-1100 nm	15.94	16.1	1.01	A

Class A	Class B	Class C
0.75	0.60	0.40
1.25	1.40	2.00

## Lighting characteristics



**Color temperature = 4448 K**

**Color Render Index = 96.6 [-]**

**Colors coordinate: x = 0.363 y = 0.365**

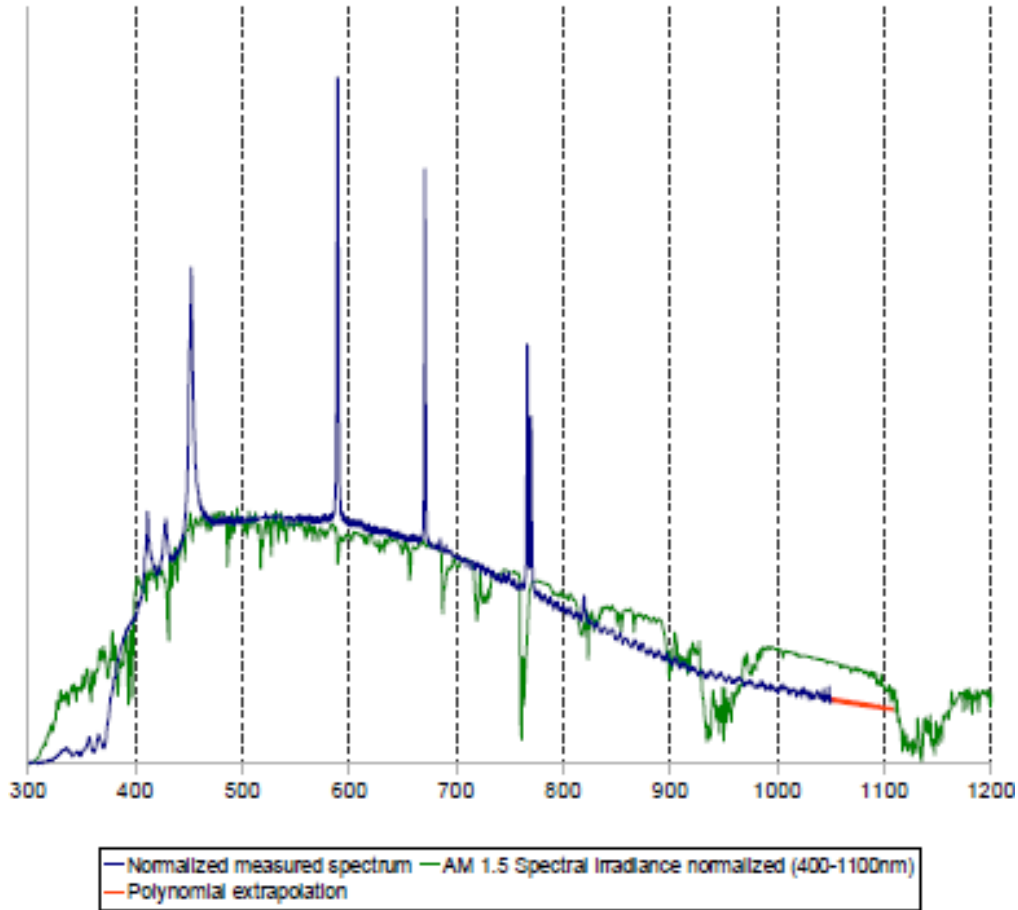
**Reference Cell Isc: 24 [mA]**

- This information is indicative, following the manufacturing batch, the parameters may change slightly.
- Reference Cell Isc measurement it's performed at 50cm with a reproducible setup. Use this value for compare the relative energetic performance between the bulbs.



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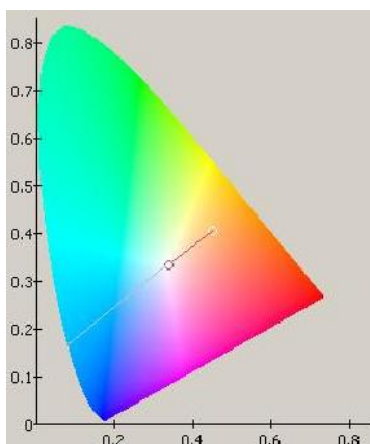
# Bulb M58-1 at 800W



Wavelength range	AM1.5 ratio	Spectrum ratio	Mismatch	Class
400-500 nm	18.4	18.6	1.01	A
500-600 nm	19.91	20.7	1.04	A
600-700 nm	18.36	19.4	1.06	A
700-800 nm	14.92	16.2	1.09	A
800-900 nm	12.46	11.3	0.91	A
900-1100 nm	15.94	13.7	0.86	A

Class A	Class B	Class C
0.75	0.60	0.40
1.25	1.40	2.00

## Lighting characteristics



**Color temperature = 5303 K**

**Color Render Index = 96.6 [-]**

**Colors coordinate: x = 0.334 y = 0.335**

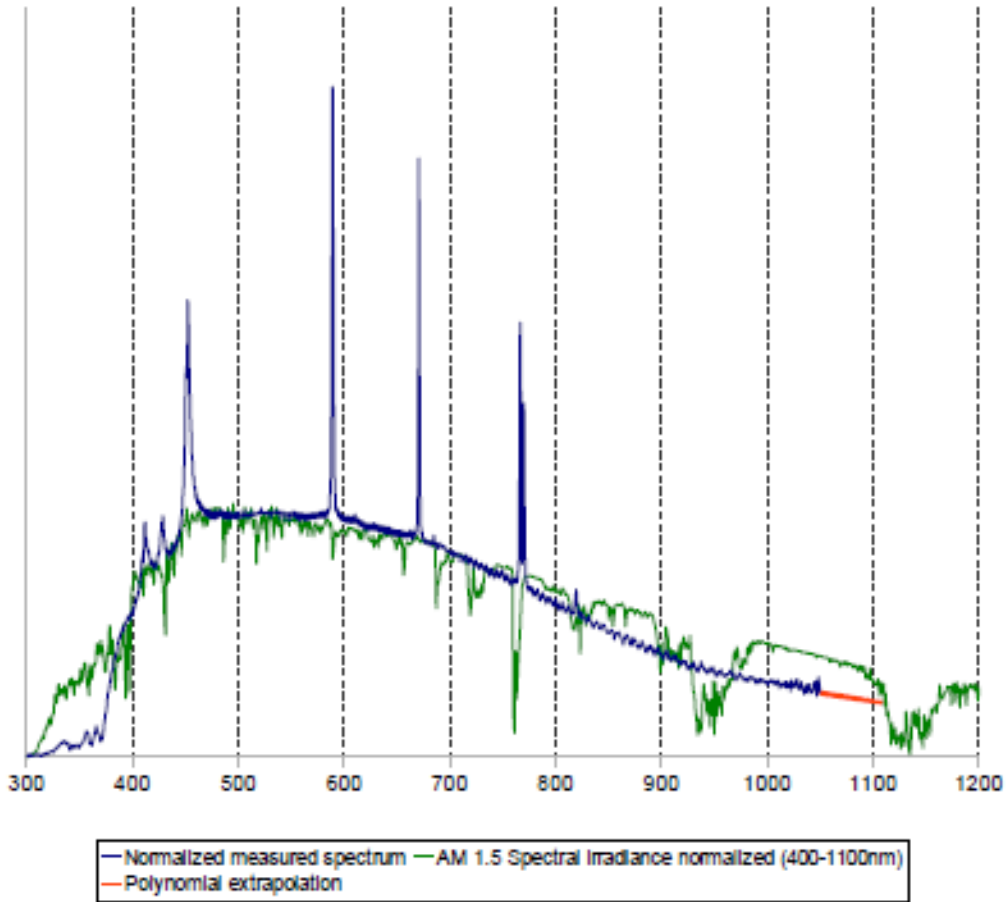
**Reference Cell Isc: 12.8 [mA]**

- This information is indicative, following the manufacturing batch, the parameters may change slightly.
- Reference Cell Isc measurement it's performed at 50cm with a reproducible setup. Use this value for compare the relative energetic performance between the bulbs.



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# Bulb M58-1 at 1000W



Wavelength range	AM1.5 ratio	Spectrum ratio	Mismatch	Class
400-500 nm	18.4	18.6	1.01	A
500-600 nm	19.91	20.7	1.04	A
600-700 nm	18.36	19.4	1.05	A
700-800 nm	14.92	16.3	1.09	A
800-900 nm	12.46	11.3	0.91	A
900-1100 nm	15.94	13.8	0.87	A

Class A	Class B	Class C
0.75	0.60	0.40
1.25	1.40	2.00

## Lighting characteristics



Color temperature = 5296 K

Color Render Index = 96.5 [-]

Colors coordinate:  $x = 0.337$   $y = 0.335$

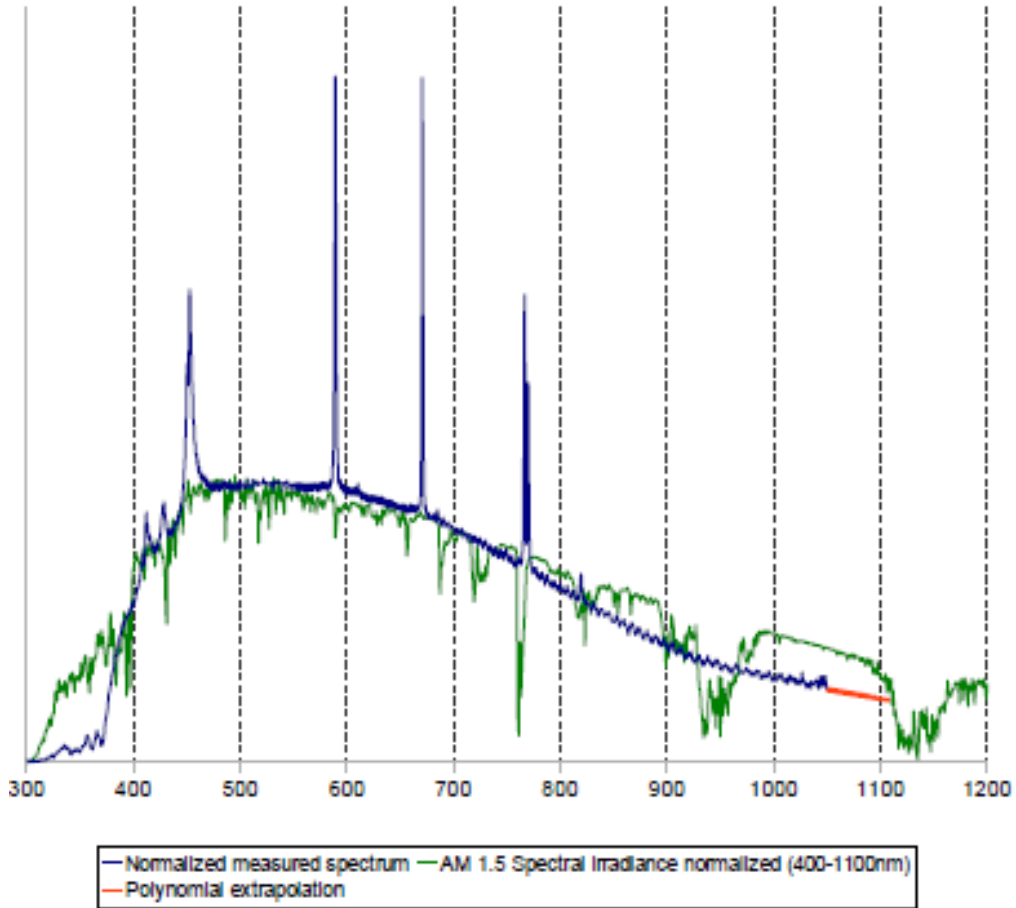
Reference Cell Isc: 17 [mA]

- This information is indicative, following the manufacturing batch, the parameters may change slightly.
- Reference Cell Isc measurement it's performed at 50cm with a reproducible setup. Use this value for compare the relative energetic performance between the bulbs.



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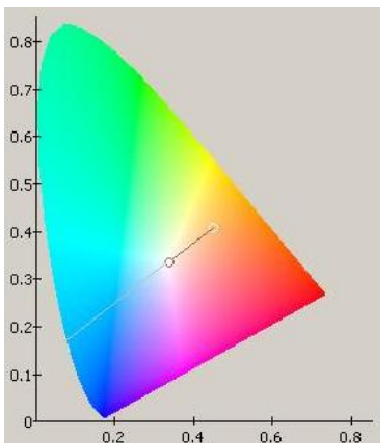
# Bulb M58-1 at 1300W



Wavelength range	AM1.5 ratio	Spectrum ratio	Mismatch	Class
400-500 nm	18.4	18.2	0.99	A
500-600 nm	19.91	20.8	1.04	A
600-700 nm	18.36	19.5	1.06	A
700-800 nm	14.92	16.3	1.09	A
800-900 nm	12.46	11.4	0.91	A
900-1100 nm	15.94	13.8	0.87	A

Class A	Class B	Class C
0.75	0.60	0.40
1.25	1.40	2.00

## Lighting characteristics



Color temperature = 5308 K

Color Render Index = 96.8 [-]

Colors coordinate:  $x = 0.337$   $y = 0.337$

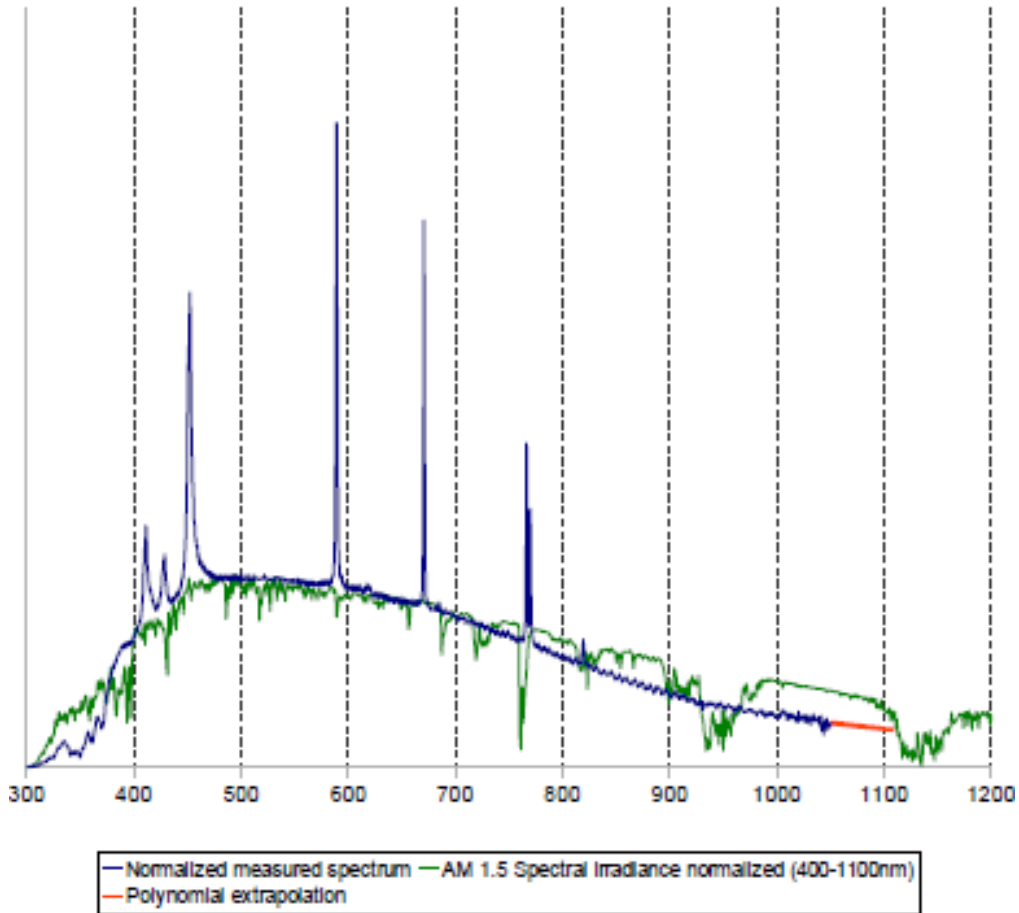
Reference Cell Isc: 23.6 [mA]

- This information is indicative, following the manufacturing batch, the parameters may change slightly.
- Reference Cell Isc measurement it's performed at 50cm with a reproducible setup. Use this value for compare the relative energetic performance between the bulbs.



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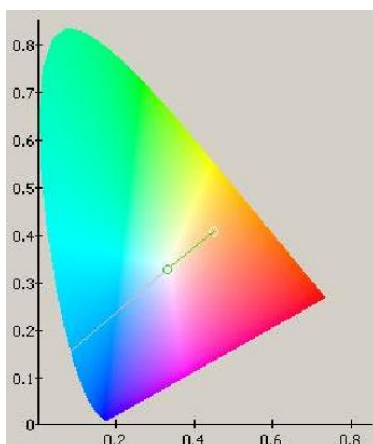
# Bulb M59 at 800W



Wavelength range	AM1.5 ratio	Spectrum ratio	Mismatch	Class
400-500 nm	18.4	20.7	1.12	A
500-600 nm	19.91	21.2	1.07	A
600-700 nm	18.36	19.2	1.04	A
700-800 nm	14.92	15.6	1.05	A
800-900 nm	12.46	10.7	0.86	A
900-1100 nm	15.94	12.7	0.80	A

Class A	Class B	Class C
0.75	0.60	0.40
1.25	1.40	2.00

## Lighting characteristics



**Color temperature = 5559 K**

**Color Render Index = 95.9 [-]**

**Colors coordinate: x = 0.331 y = 0.327**

**Reference Cell Isc: 10.1 [mA]**

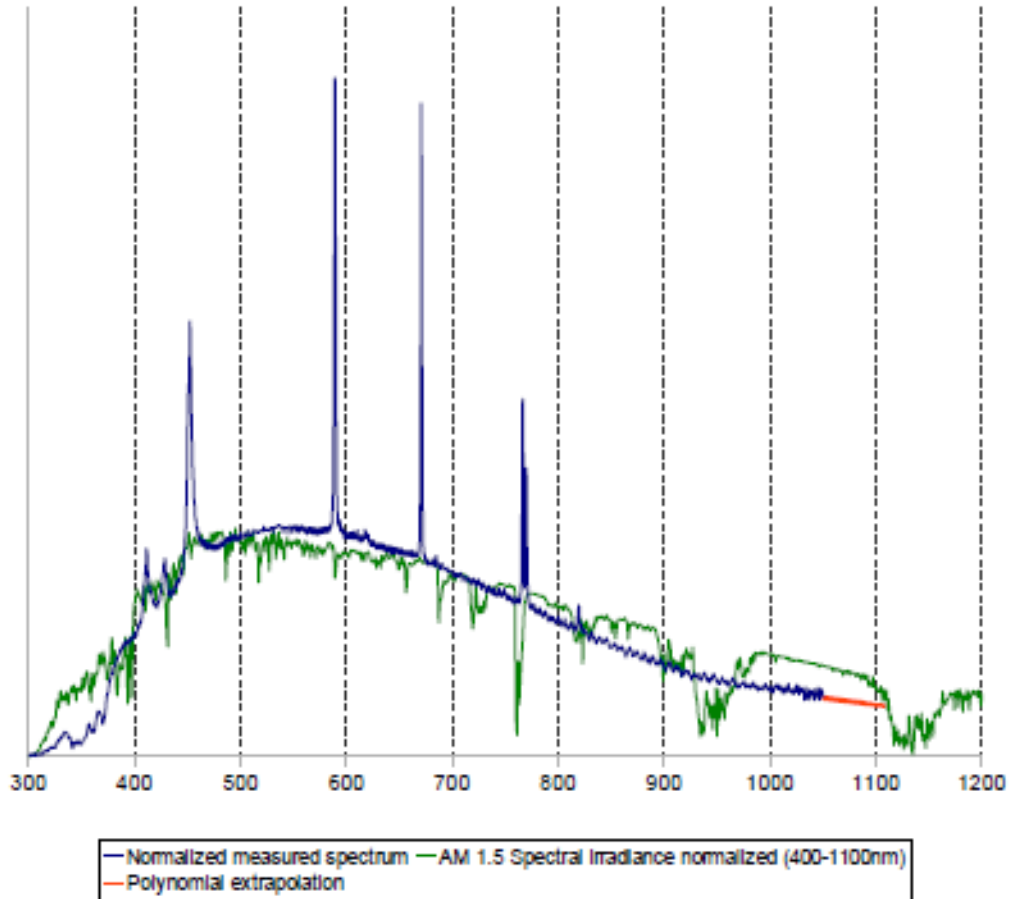
- This information is indicative, following the manufacturing batch, the parameters may change slightly.
- Reference Cell Isc measurement it's performed at 50cm with a reproducible setup. Use this value for compare the relative energetic performance between the bulbs.





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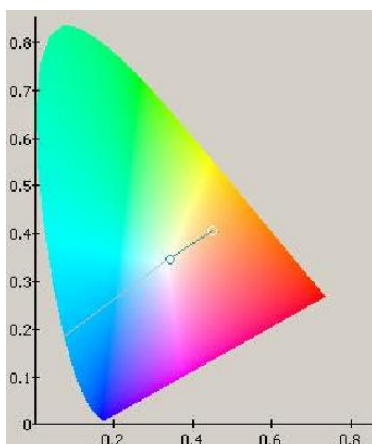
# Bulb M59 at 1000W



Wavelength range	AM1.5 ratio	Spectrum ratio	Mismatch	Class
400-500 nm	18.4	17.5	0.95	A
500-600 nm	19.91	21.5	1.08	A
600-700 nm	18.36	19.9	1.08	A
700-800 nm	14.92	16.0	1.07	A
800-900 nm	12.46	11.1	0.89	A
900-1100 nm	15.94	13.9	0.87	A

Class A	Class B	Class C
0.75	0.60	0.40
1.25	1.40	2.00

## Lighting characteristics



Color temperature = 5051 K

Color Render Index = 96.0 [-]

Colors coordinate:  $x = 0.343$       $y = 0.346$

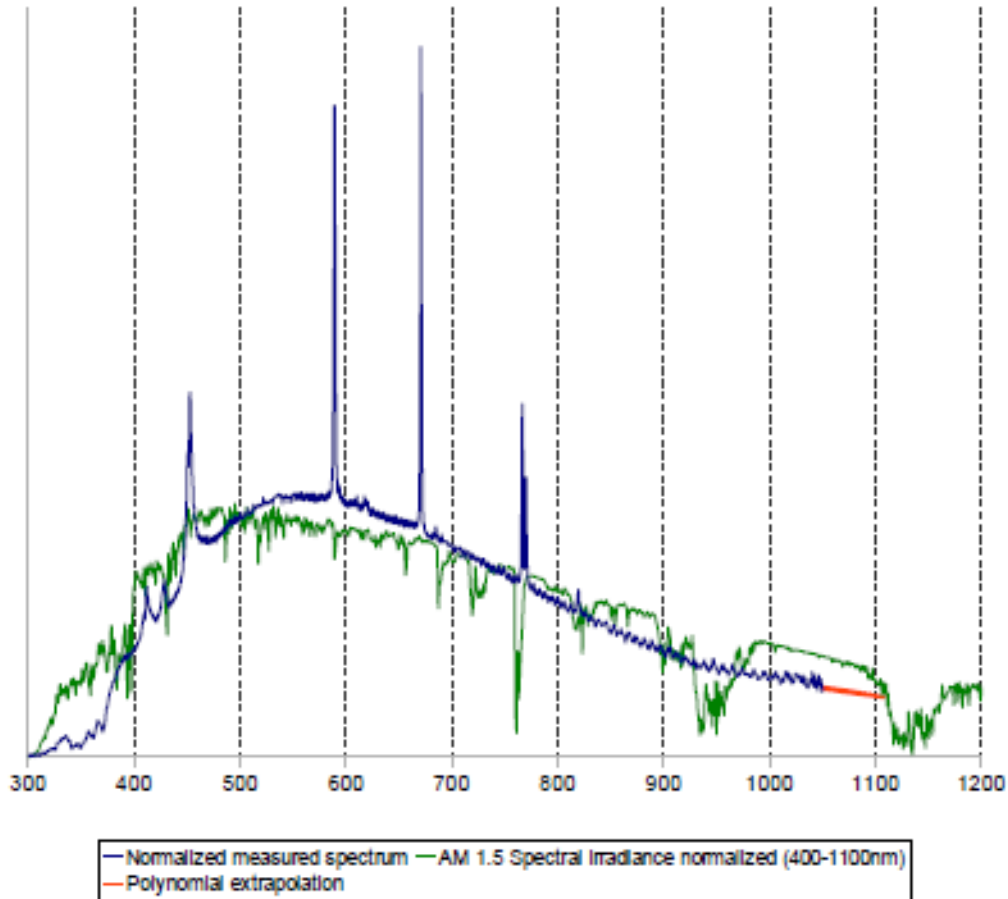
Reference Cell Isc: 13.6 [mA]

- This information is indicative, following the manufacturing batch, the parameters may change slightly.
- Reference Cell Isc measurement it's performed at 50cm with a reproducible setup. Use this value for compare the relative energetic performance between the bulbs.



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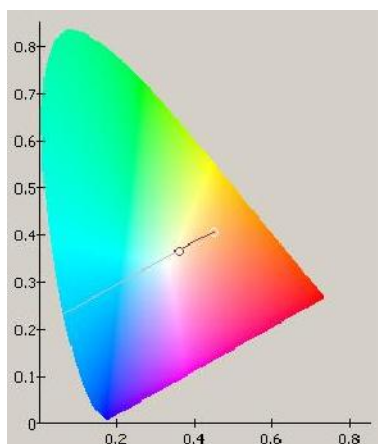
# Bulb M59 at 1300W



Wavelength range	AM1.5 ratio	Spectrum ratio	Mismatch	Class
400-500 nm	18.4	15.1	0.82	A
500-600 nm	19.91	21.8	1.09	A
600-700 nm	18.36	20.6	1.12	A
700-800 nm	14.92	16.4	1.10	A
800-900 nm	12.46	11.5	0.92	A
900-1100 nm	15.94	14.6	0.92	A

Class A	Class B	Class C
0.75	0.60	0.40
1.25	1.40	2.00

## Lighting characteristics



**Color temperature = 4602 K**

**Color Render Index = 94.2 [-]**

**Colors coordinate: x = 0.358 y = 0.367**

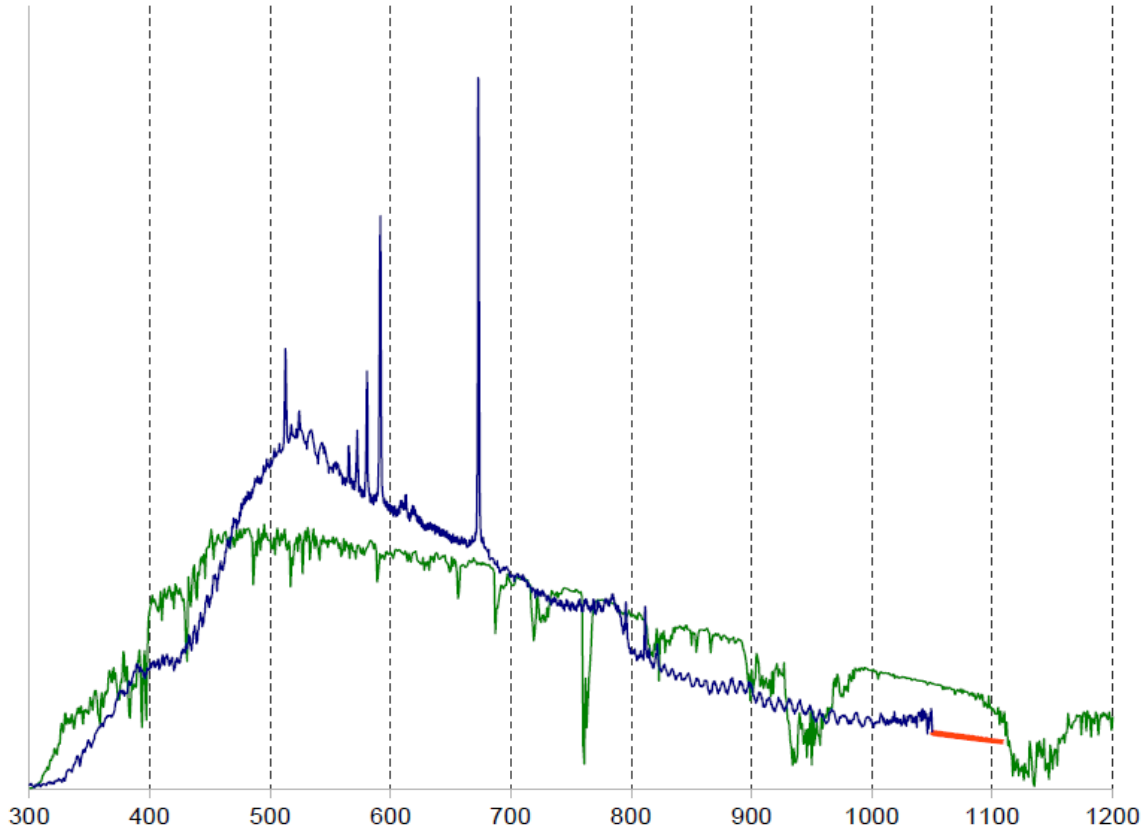
**Reference Cell Isc: 19 [mA]**

- This information is indicative, following the manufacturing batch, the parameters may change slightly.
- Reference Cell Isc measurement it's performed at 50cm with a reproducible setup. Use this value for compare the relative energetic performance between the bulbs.



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# Bulb M64 at 1000W

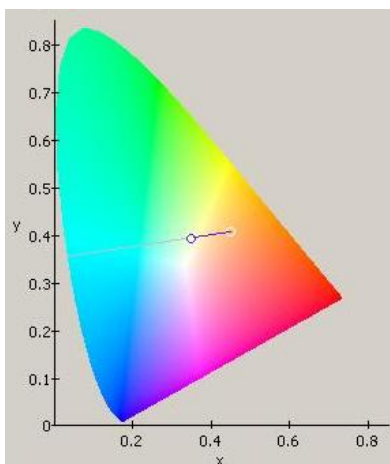


— Normalized measured spectrum — AM 1.5 Spectral irradiance normalized (400-1100nm)  
 — Polynomial extrapolation

Wavelength range	AM1.5 ratio	Spectrum ratio	Mismatch	Class
400-500 nm	18.4	14.8	0.81	A
500-600 nm	19.91	26.4	1.33	B
600-700 nm	18.36	21.3	1.16	A
700-800 nm	14.92	15.8	1.06	A
800-900 nm	12.46	9.7	0.78	A
900-1100 nm	15.94	12.0	0.76	A

Class A	Class B	Class C
0.75	0.60	0.40
1.25	1.40	2.00

## Lighting characteristics



**Color temperature = 5000 K**

**Color Render Index = 90.0 [-]**

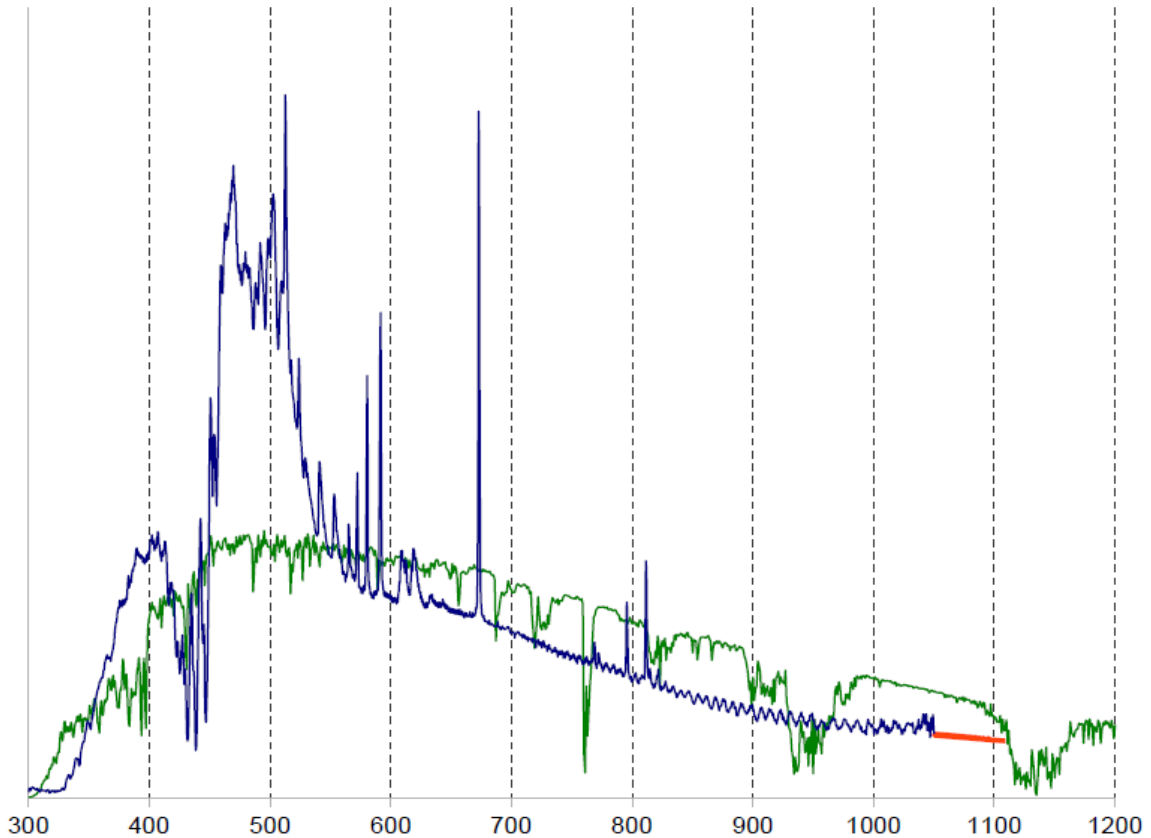
**Colors coordinate: x = 0.348 y = 0.395**

**Reference Cell Isc: 12.0 [mA]**

- This information is indicative, following the manufacturing batch, the parameters may change slightly.
- Reference Cell Isc measurement it's performed at 50cm with a reproducible setup. Use this value for compare the relative energetic performance between the bulbs.



# Bulb M65 at 1000W

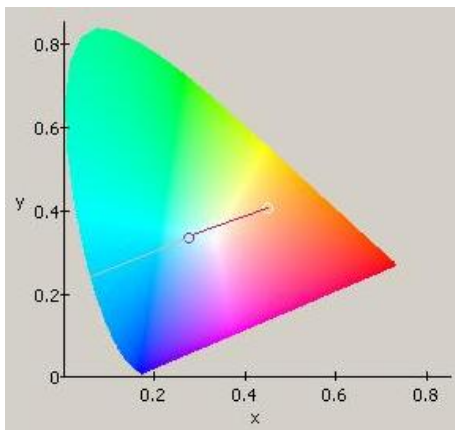


— Normalized measured spectrum — AM 1.5 Spectral irradiance normalized (400-1100nm)  
 — Polynomial extrapolation

Wavelentgh range	AM1.5 ratio	Spectrum ratio	Mismatch	Class
400-500 nm	18.4	25.0	1.36	B
500-600 nm	19.91	26.5	1.33	B
600-700 nm	18.36	15.9	0.87	A
700-800 nm	14.92	11.8	0.79	A
800-900 nm	12.46	8.7	0.70	B
900-1100 nm	15.94	12.1	0.76	A

Class A	Class B	Class C
0.75	0.60	0.40
1.25	1.40	2.00

## Lighting characteristics



**Color temperature = 8700 K**

**Color Render Index = 83.5 [-]**

**Colors coordinate: x = 0.275 y = 0.334**

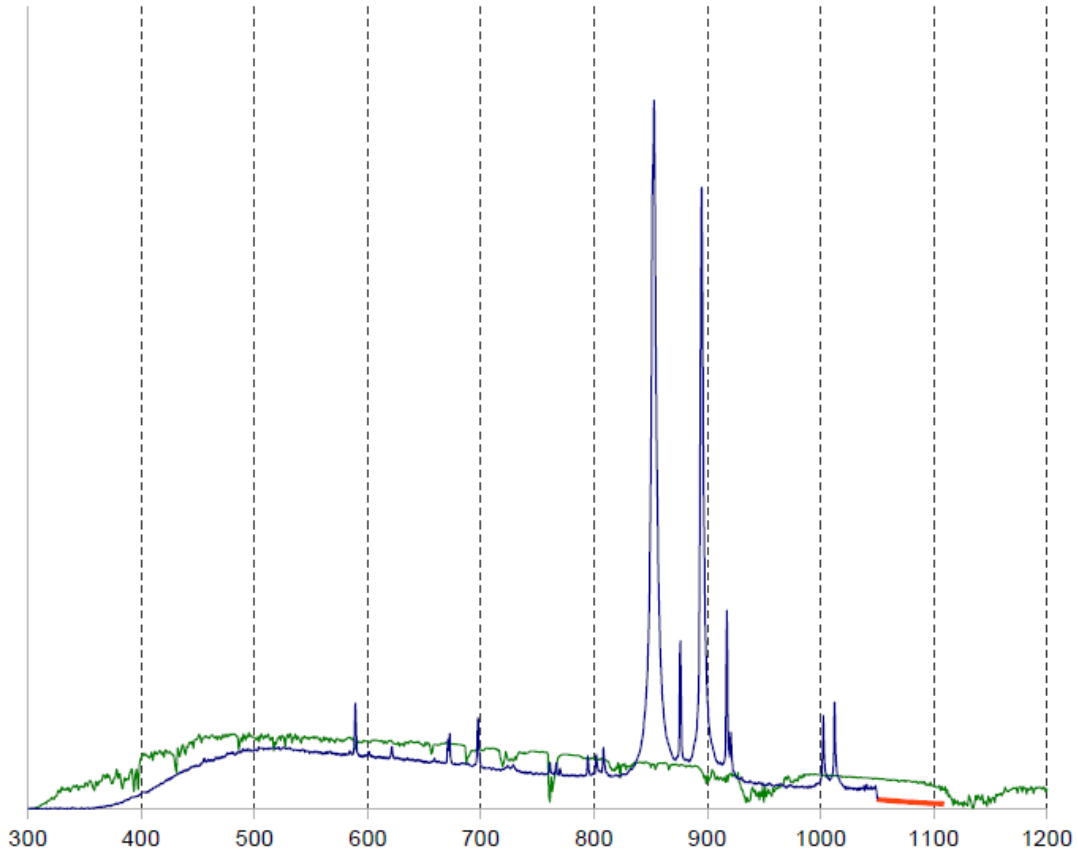
**Reference Cell Isc: 9.1 [mA]**

- This information is indicative, following the manufacturing batch, the parameters may change slightly.
- Reference Cell Isc measurement it's performed at 50cm with a reproducible setup. Use this value for compare the relative energetic performance between the bulbs.



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# Bulb Mix1 at 800W

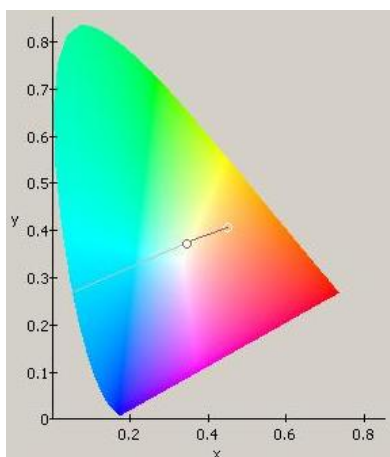


— Normalized measured spectrum — AM 1.5 Spectral irradiance normalized (400-1100nm)  
 — Polynomial extrapolation

Wavelength range	AM1.5 ratio	Spectrum ratio	Mismatch	Class
400-500 nm	18.4	10.3	0.56	C
500-600 nm	19.91	16.2	0.81	A
600-700 nm	18.36	13.8	0.75	A
700-800 nm	14.92	10.9	0.73	B
800-900 nm	12.46	26.4	2.12	-
900-1100 nm	15.94	22.4	1.40	C

Class A	Class B	Class C
0.75	0.60	0.40
1.25	1.40	2.00

## Lighting characteristics



Color temperature = 5100 K

Color Render Index = 94 [-]

Colors coordinate: x = 0.344 y = 0.371

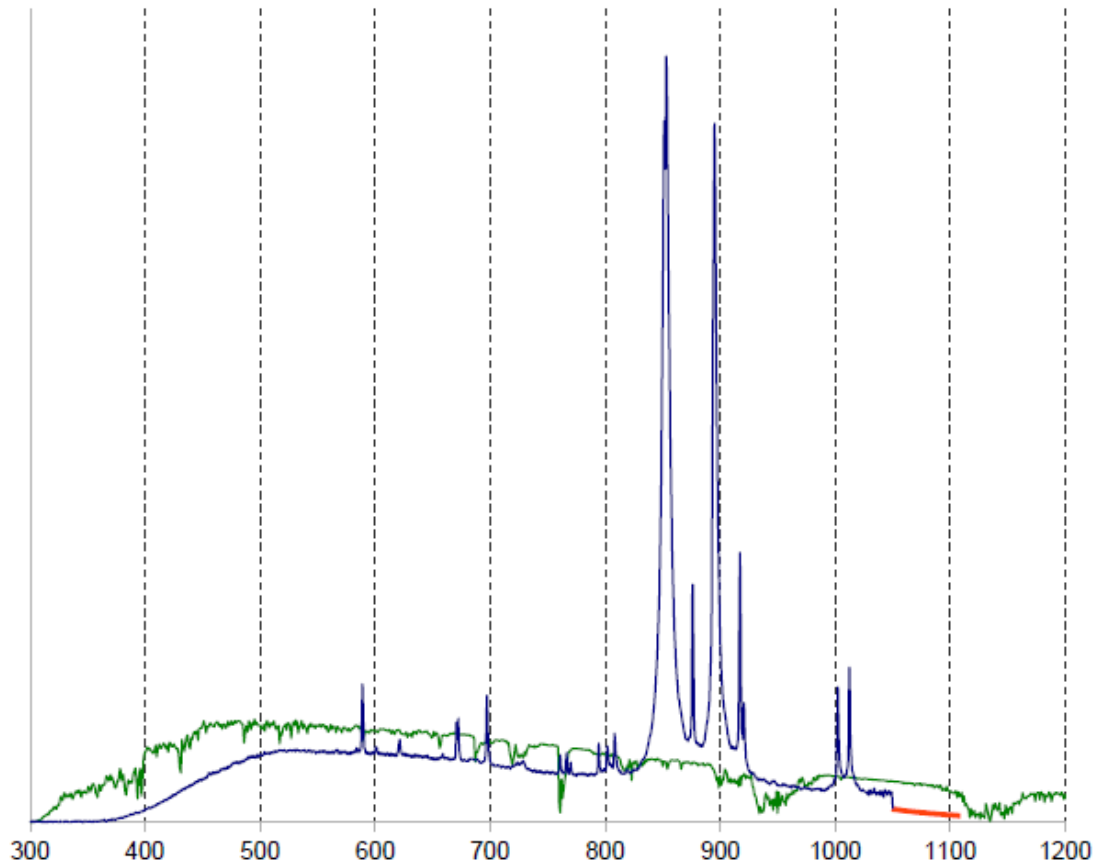
Reference Cell Isc: 11 [mA]

- This information is indicative, following the manufacturing batch, the parameters may change slightly.
- Reference Cell Isc measurement it's performed at 50cm with a reproducible setup. Use this value for compare the relative energetic performance between the bulbs.



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# Bulb Mix1 at 1000W

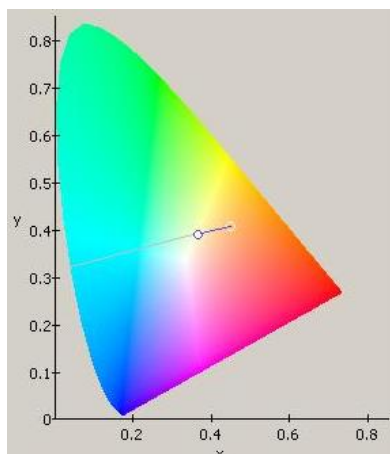


— Normalized measured spectrum — AM 1.5 Spectral irradiance normalized (400-1100nm)  
 — Polynomial extrapolation

Wavelength range	AM1.5 ratio	Spectrum ratio	Mismatch	Class
400-500 nm	18.4	7.6	0.41	C
500-600 nm	19.91	14.5	0.73	B
600-700 nm	18.36	13.8	0.75	A
700-800 nm	14.92	11.4	0.77	A
800-900 nm	12.46	28.5	2.29	-
900-1100 nm	15.94	24.1	1.51	C

Class A	Class B	Class C
0.75	0.60	0.40
1.25	1.40	2.00

## Lighting characteristics



**Color temperature = 4450 K**

**Color Render Index = 93 [-]**

**Colors coordinate: x = 0.366 y = 0.390**

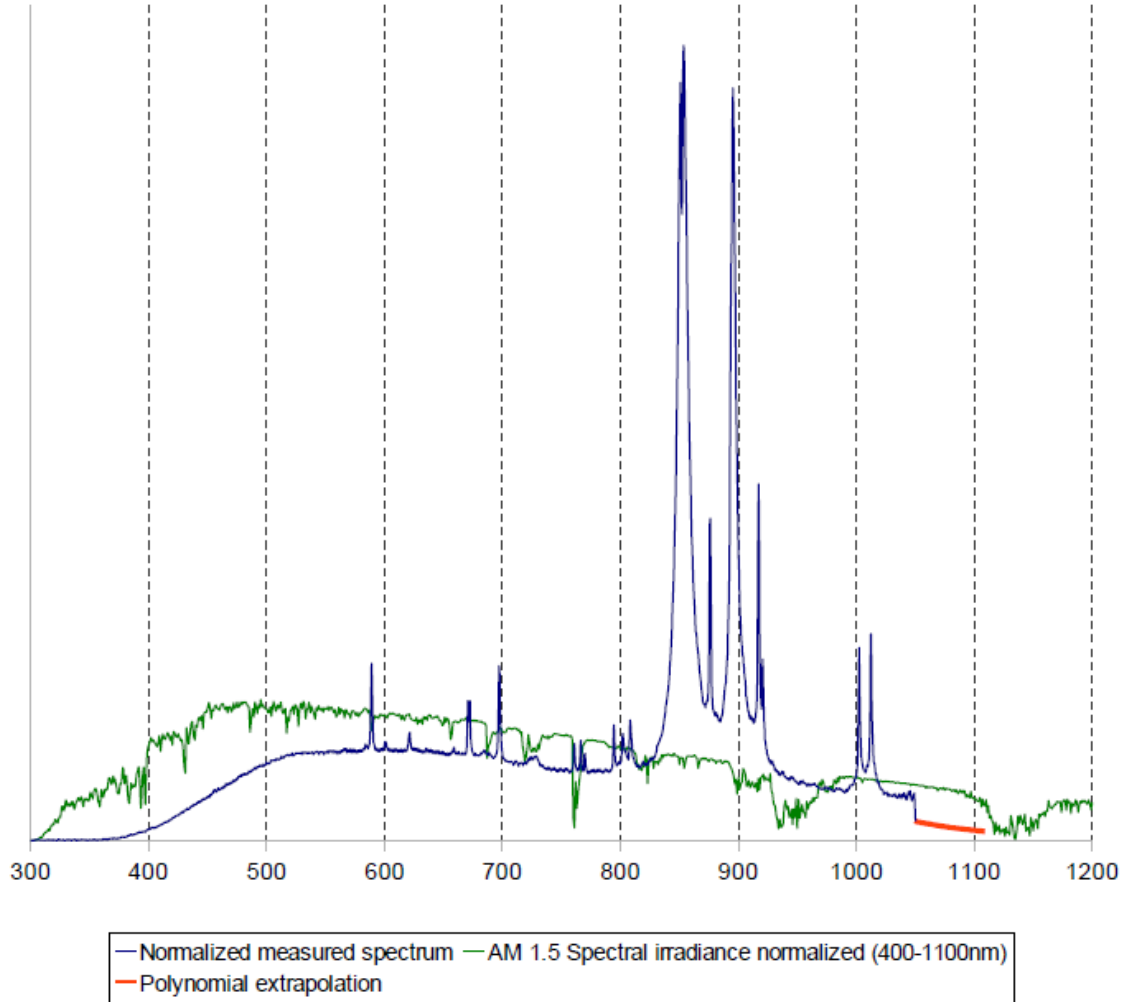
**Reference Cell Isc: 15.5 [mA]**

- This information is indicative, following the manufacturing batch, the parameters may change slightly.
- Reference Cell Isc measurement it's performed at 50cm with a reproducible setup. Use this value for compare the relative energetic performance between the bulbs.



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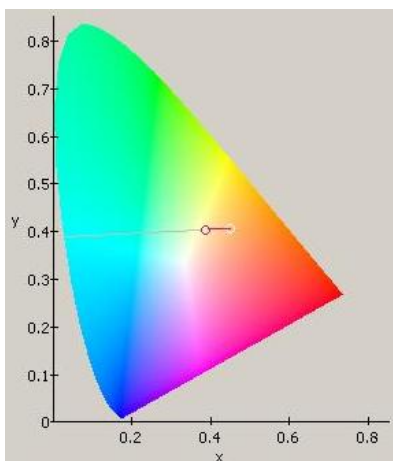
# Bulb Mix1 at 1300W



Wavelength range	AM1.5 ratio	Spectrum ratio	Mismatch	Class
400-500 nm	18.4	5.7	0.31	-
500-600 nm	19.91	13.2	0.66	B
600-700 nm	18.36	13.7	0.75	B
700-800 nm	14.92	11.9	0.80	A
800-900 nm	12.46	29.7	2.38	-
900-1100 nm	15.94	25.8	1.62	C

Class A	Class B	Class C
0.75	0.60	0.40
1.25	1.40	2.00

## Lighting characteristics



Color temperature = 4050 K

Color Render Index = 92.5 [-]

Colors coordinate:  $x = 0.386$   $y = 0.405$

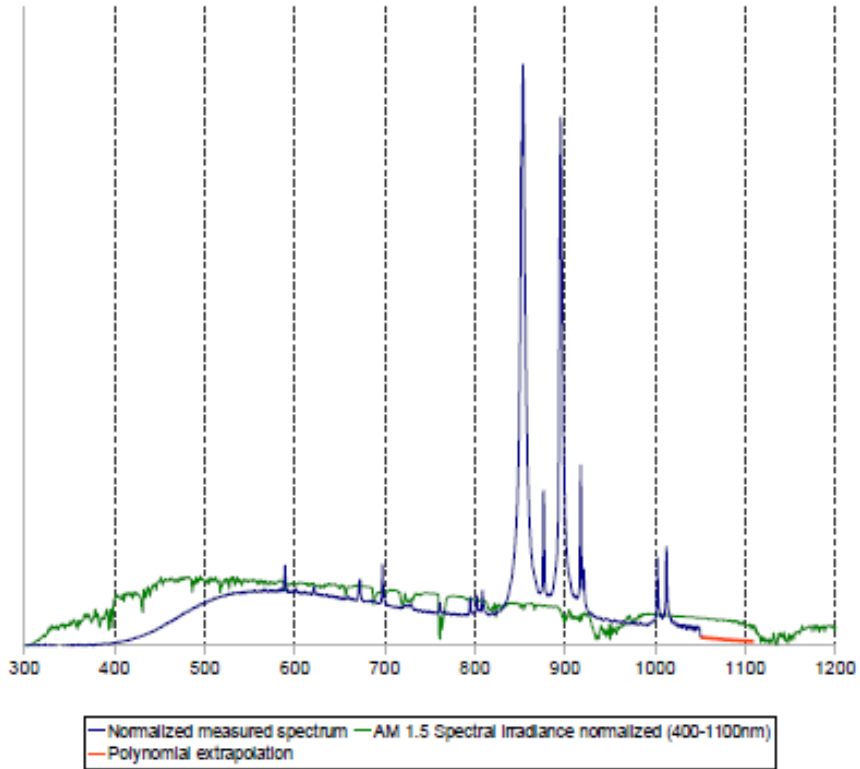
Reference Cell Isc: 23 [mA]

- This information is indicative, following the manufacturing batch, the parameters may change slightly.
- Reference Cell Isc measurement it's performed at 50cm with a reproducible setup. Use this value for compare the relative energetic performance between the bulbs.



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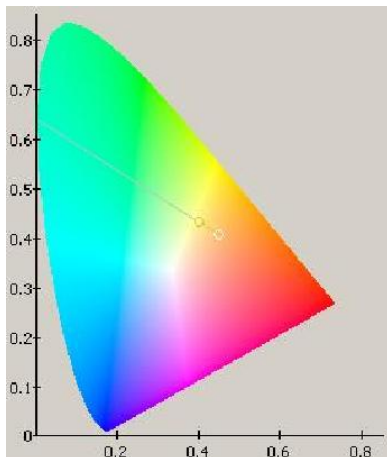
# Bulb Mix2 at 800W



Wavelength range	AM1.5 ratio	Spectrum ratio	Mismatch	Class
400-500 nm	18.4	5.0	0.27	-
500-600 nm	19.91	15.6	0.79	A
600-700 nm	18.36	15.2	0.83	A
700-800 nm	14.92	11.3	0.76	A
800-900 nm	12.46	28.6	2.30	-
900-1100 nm	15.94	24.2	1.52	C

Class A	Class B	Class C
0.75	0.60	0.40
1.25	1.40	2.00

## Lighting characteristics



**Color temperature = 3931 K**

**Color Render Index = 86.7 [-]**

**Colors coordinate: x = 0.399 y = 0.433**

**Reference Cell Isc: 12.4 [mA]**

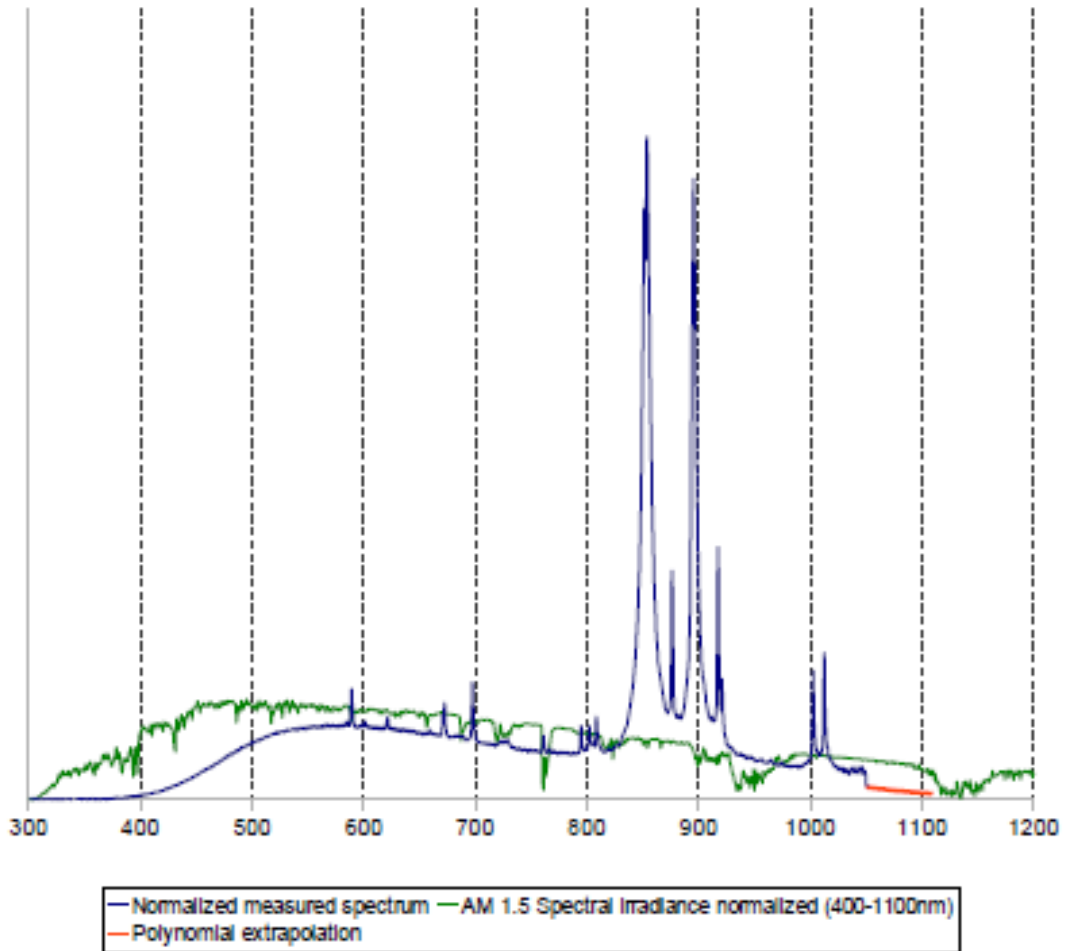
- This information is indicative, following the manufacturing batch, the parameters may change slightly.
- Reference Cell Isc measurement it's performed at 50cm with a reproducible setup. Use this value for compare the relative energetic performance between the bulbs.





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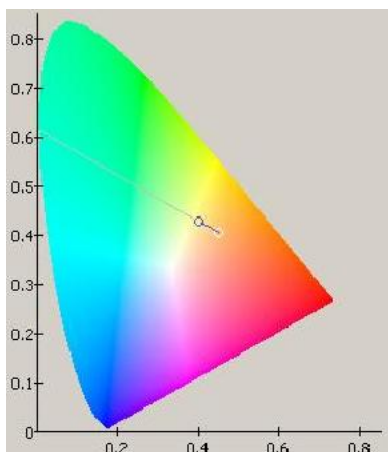
# Bulb Mix2 at 1000W



Wavelength range	AM1.5 ratio	Spectrum ratio	Mismatch	Class
400-500 nm	18.4	4.7	0.25	-
500-600 nm	19.91	14.5	0.73	B
600-700 nm	18.36	14.6	0.80	A
700-800 nm	14.92	11.5	0.77	A
800-900 nm	12.46	29.4	2.36	-
900-1100 nm	15.94	25.3	1.59	C

Class A	Class B	Class C
0.75	0.60	0.40
1.25	1.40	2.00

## Lighting characteristics



Color temperature = 3891 K

Color Render Index = 87.7 [-]

Colors coordinate:  $x = 0.400$   $y = 0.430$

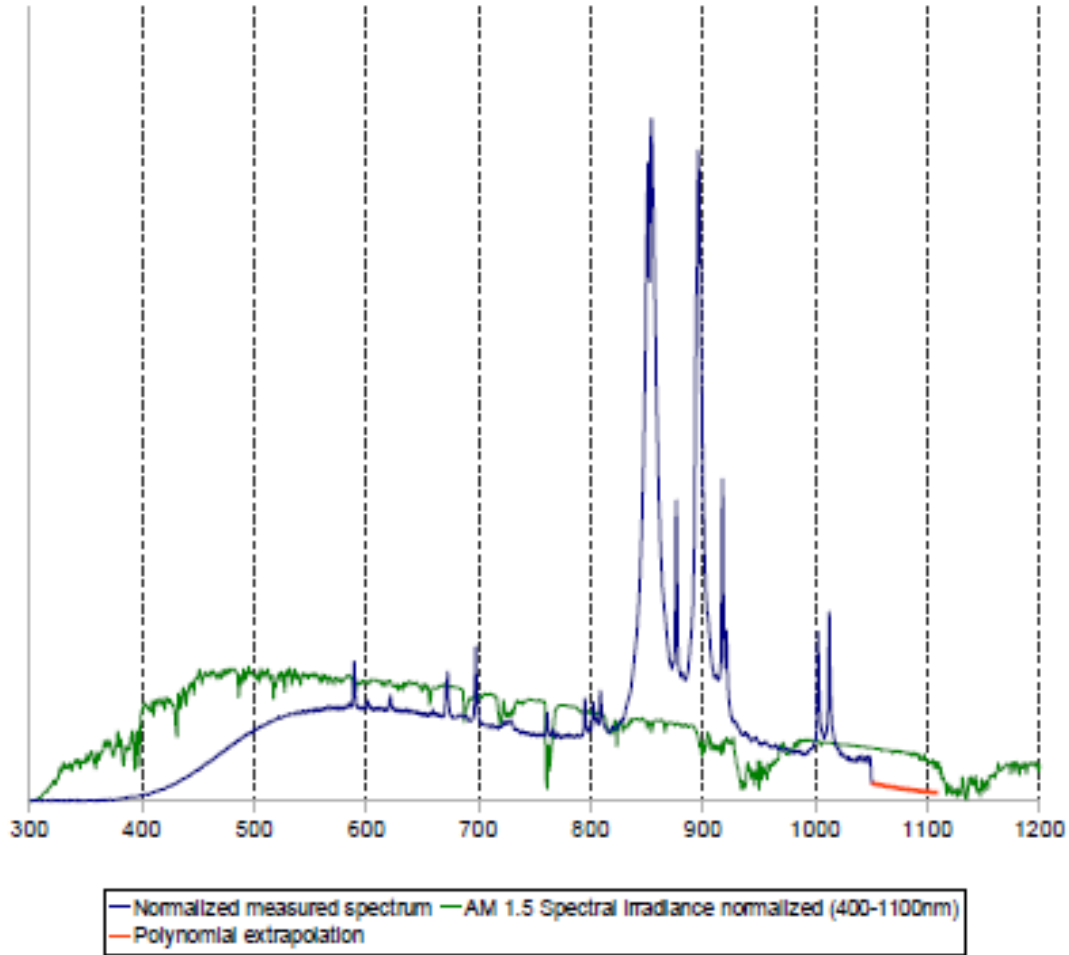
Reference Cell Isc: 17.5 [mA]

- This information is indicative, following the manufacturing batch, the parameters may change slightly.
- Reference Cell Isc measurement it's performed at 50cm with a reproducible setup. Use this value for compare the relative energetic performance between the bulbs.



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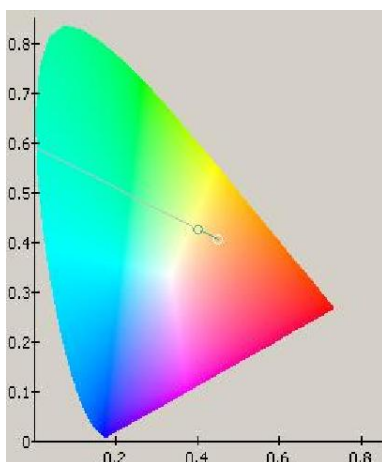
# Bulb Mix2 at 1300W



Wavelength range	AM1.5 ratio	Spectrum ratio	Mismatch	Class
400-500 nm	18.4	4.5	0.24	-
500-600 nm	19.91	13.6	0.68	B
600-700 nm	18.36	14.3	0.78	A
700-800 nm	14.92	11.7	0.79	A
800-900 nm	12.45	29.7	2.39	-
900-1100 nm	15.94	26.2	1.64	C

Class A	Class B	Class C
0.75	0.60	0.40
1.25	1.40	2.00

## Lighting characteristics



Color temperature = 3822 K

Color Render Index = 89.0 [-]

Colors coordinate:  $x = 0.402$   $y = 0.427$

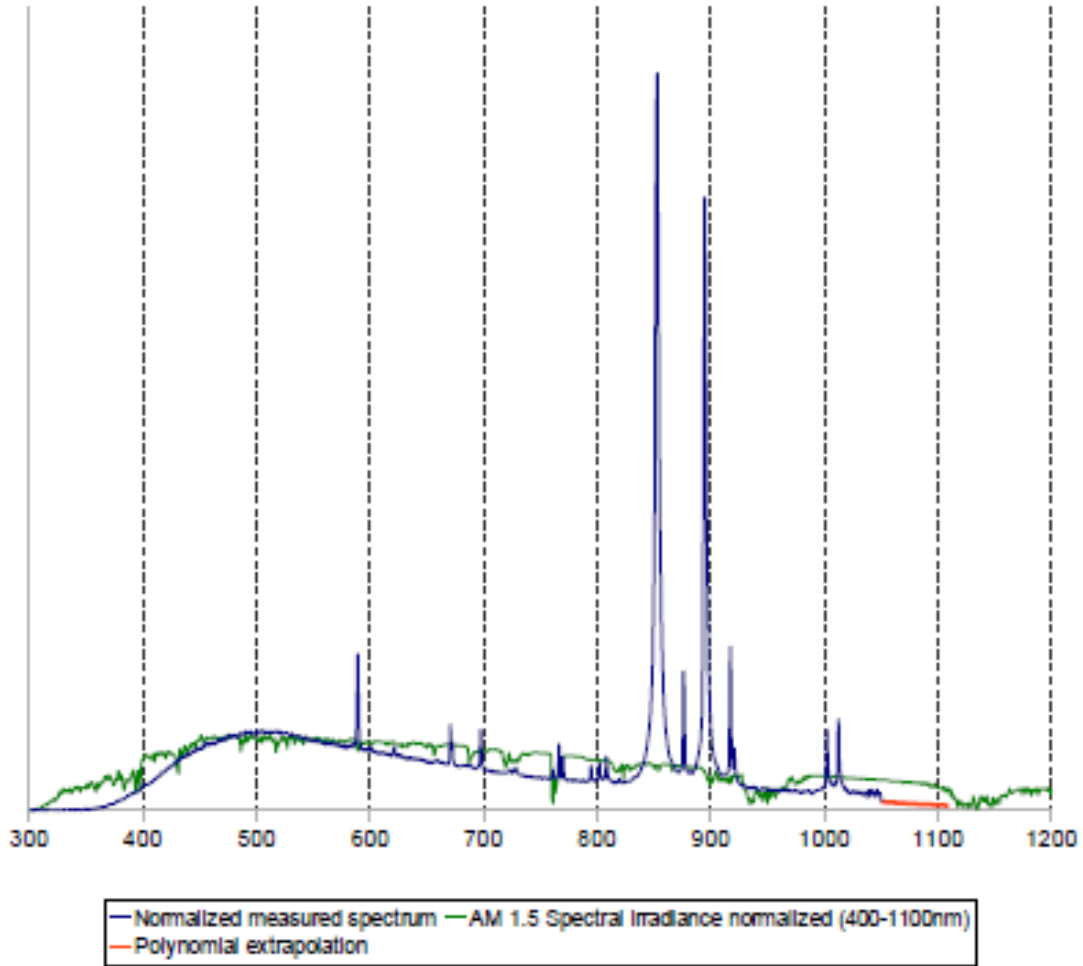
Reference Cell Isc: 25.5 [mA]

- This information is indicative, following the manufacturing batch, the parameters may change slightly.
- Reference Cell Isc measurement it's performed at 50cm with a reproducible setup. Use this value for compare the relative energetic performance between the bulbs.



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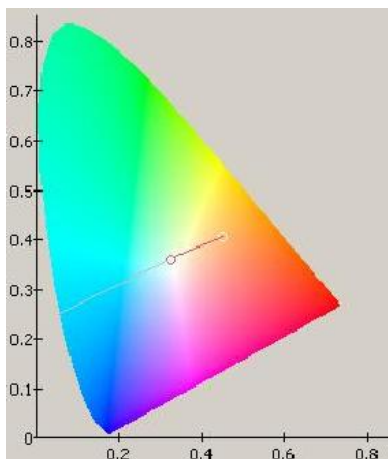
# Bulb Mix5 at 800W



Wavelength range	AM1.5 ratio	Spectrum ratio	Mismatch	Class
400-500 nm	18.4	14.5	0.79	A
500-600 nm	19.91	20.1	1.01	A
600-700 nm	18.36	14.5	0.79	A
700-800 nm	14.92	10.3	0.69	B
800-900 nm	12.46	21.8	1.75	C
900-1100 nm	15.94	18.9	1.18	A

Class A	Class B	Class C
0.75	0.60	0.40
1.25	1.40	2.00

## Lighting characteristics



**Color temperature = 5860 K**

**Color Render Index = 92.0 [-]**

**Colors coordinate: x = 0.324 y = 0.359**

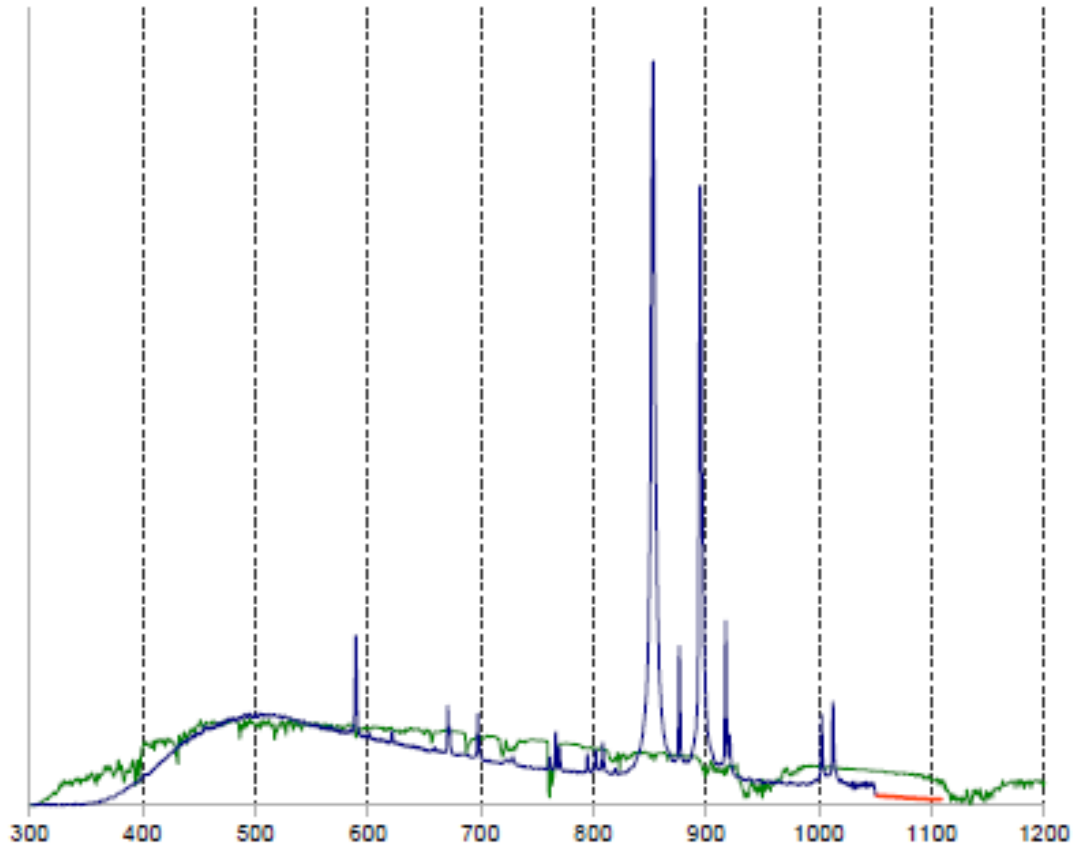
**Reference Cell Isc: 11.1 [mA]**

- This information is indicative, following the manufacturing batch, the parameters may change slightly.
- Reference Cell Isc measurement it's performed at 50cm with a reproducible setup. Use this value for compare the relative energetic performance between the bulbs.



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# Bulb Mix5 at 1000W

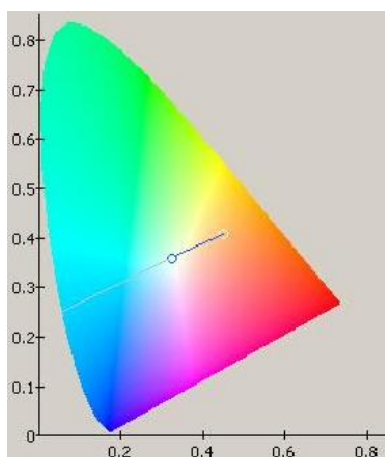


— Normalized measured spectrum — AM 1.5 Spectral Irradiance normalized (400-1100nm)  
 — Polynomial extrapolation

Wavelength range	AM1.5 ratio	Spectrum ratio	Mismatch	Class
400-500 nm	18.4	14.8	0.81	A
500-600 nm	19.91	20.3	1.02	A
600-700 nm	18.36	14.6	0.79	A
700-800 nm	14.92	10.2	0.69	B
800-900 nm	12.46	21.3	1.71	C
900-1100 nm	15.94	18.7	1.17	A

Class A	Class B	Class C
0.75	0.60	0.40
1.25	1.40	2.00

## Lighting characteristics



**Color temperature = 5856 K**

**Color Render Index = 92.0 [-]**

**Colors coordinate: x = 0.324 y = 0.358**

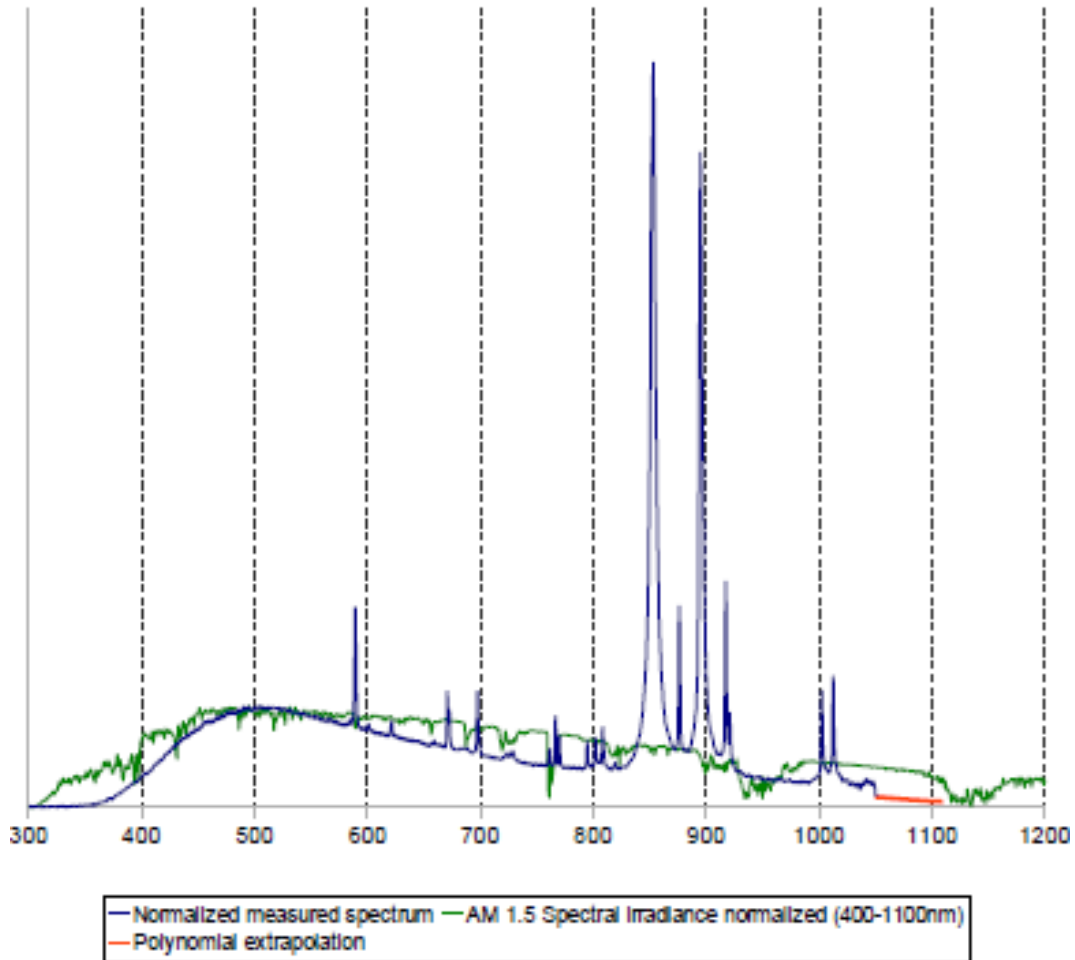
**Reference Cell Isc: 14.3 [mA]**

- This information is indicative, following the manufacturing batch, the parameters may change slightly.
- Reference Cell Isc measurement it's performed at 50cm with a reproducible setup. Use this value for compare the relative energetic performance between the bulbs.



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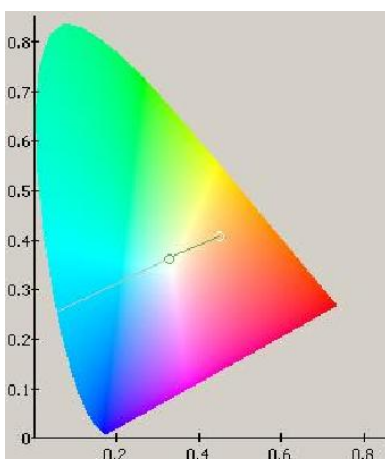
# Bulb Mix5 at 1300W



Wavelength range	AM1.5 ratio	Spectrum ratio	Mismatch	Class
400-500 nm	18.4	13.9	0.76	A
500-600 nm	19.91	19.5	0.98	A
600-700 nm	18.36	14.3	0.78	A
700-800 nm	14.92	10.2	0.69	B
800-900 nm	12.46	22.6	1.82	C
900-1100 nm	15.94	19.4	1.22	A

Class A	Class B	Class C
0.75	0.60	0.40
1.25	1.40	2.00

## Lighting characteristics



**Color temperature = 5683 K**

**Color Render Index = 91.7 [-]**

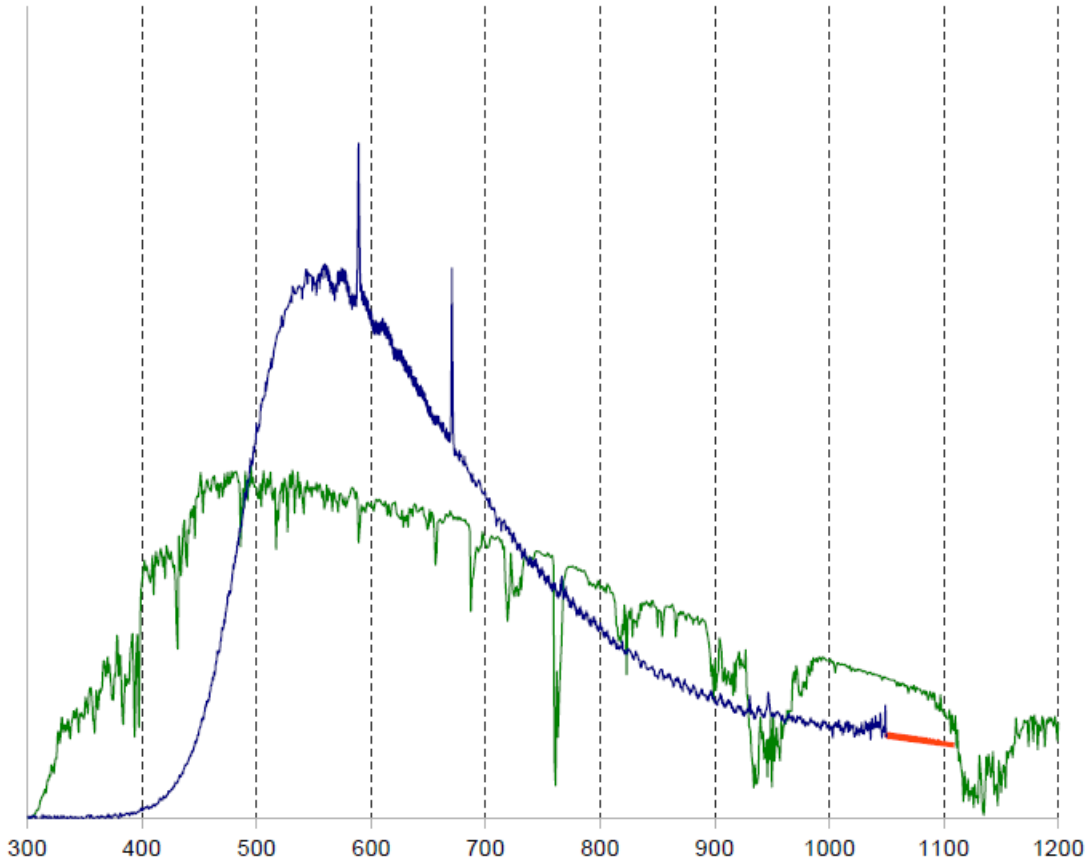
**Colors coordinate: x = 0.328 y = 0.361**

**Reference Cell Isc: 19.6 [mA]**

- This information is indicative, following the manufacturing batch, the parameters may change slightly.
- Reference Cell Isc measurement it's performed at 50cm with a reproducible setup. Use this value for compare the relative energetic performance between the bulbs.



# Bulb Mix7 at 800W

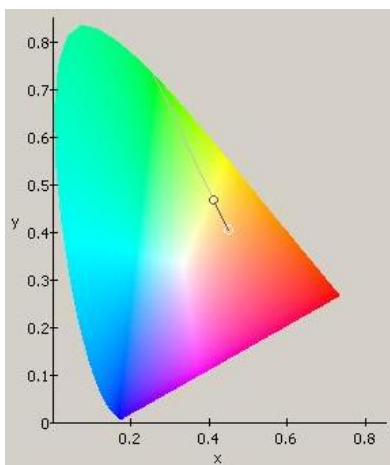


— Normalized measured spectrum — AM 1.5 Spectral irradiance normalized (400-1100nm)  
 — Polynomial extrapolation

Wavelentgh range	AM1.5 ratio	Spectrum ratio	Mismatch	Class
400-500 nm	18.4	6.0	0.33	-
500-600 nm	19.91	30.0	1.51	C
600-700 nm	18.36	26.0	1.42	C
700-800 nm	14.92	15.9	1.07	A
800-900 nm	12.46	9.6	0.77	A
900-1100 nm	15.94	12.4	0.78	A

Class A	Class B	Class C
0.75	0.60	0.40
1.25	1.40	2.00

## Lighting characteristics



Color temperature = 3900 K

Color Render Index = 78 [-]

Colors coordinate:  $x = 0.412$   $y = 0.468$

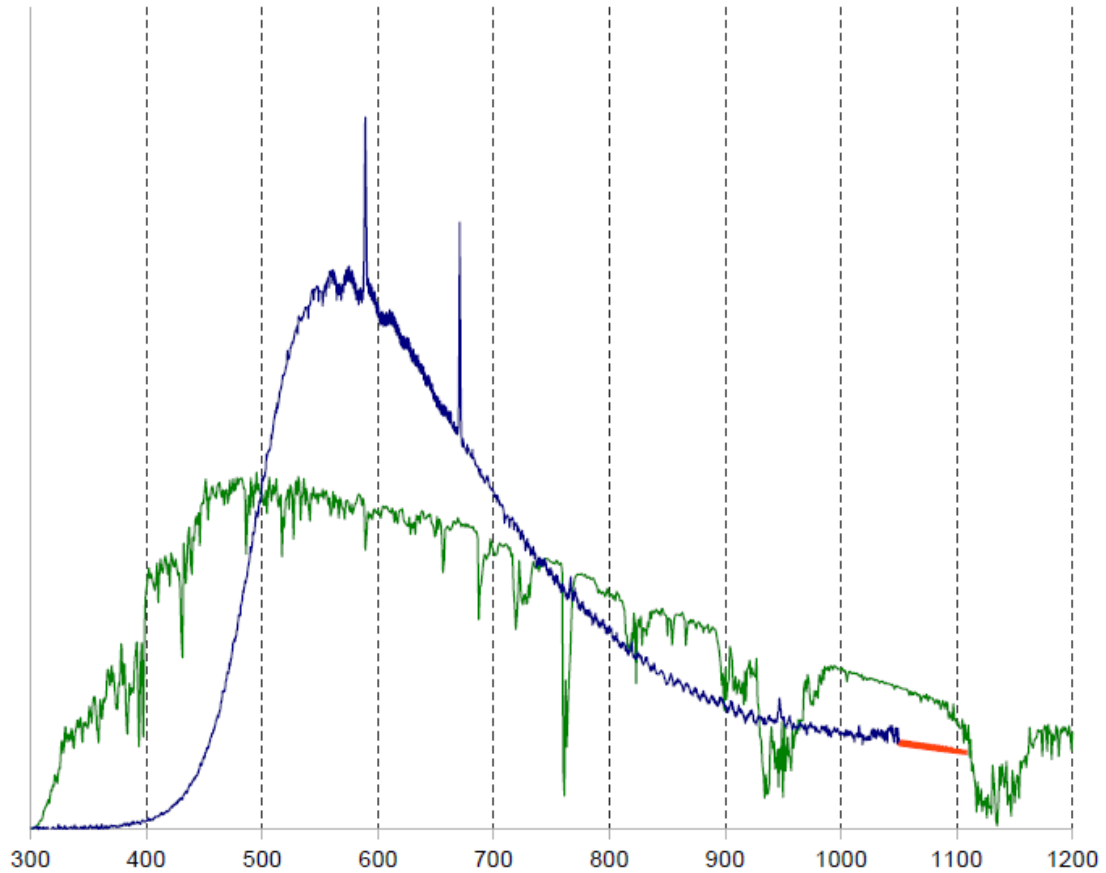
Reference Cell Isc: 10.5 [mA]

- This information is indicative, following the manufacturing batch, the parameters may change slightly.
- Reference Cell Isc measurement it's performed at 50cm with a reproducible setup. Use this value for compare the relative energetic performance between the bulbs.



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# Bulb Mix7 at 1000W

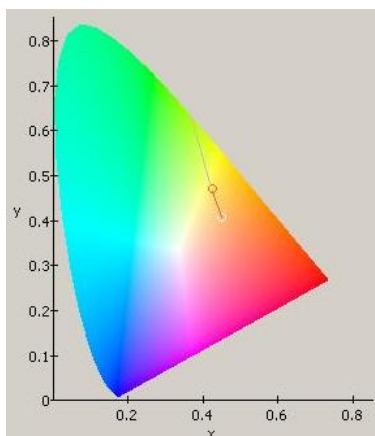


— Normalized measured spectrum — AM 1.5 Spectral irradiance normalized (400-1100nm)  
 — Polynomial extrapolation

Wavelength range	AM1.5 ratio	Spectrum ratio	Mismatch	Class
400-500 nm	18.4	5.0	0.27	-
500-600 nm	19.91	29.1	1.46	C
600-700 nm	18.36	26.9	1.46	C
700-800 nm	14.92	16.5	1.10	A
800-900 nm	12.46	9.9	0.79	A
900-1100 nm	15.94	12.6	0.79	A

Class A	Class B	Class C
0.75	0.60	0.40
1.25	1.40	2.00

## Lighting characteristics



Color temperature = 3650 K

Color Render Index = 78 [-]

Colors coordinate:  $x = 0.425$   $y = 0.471$

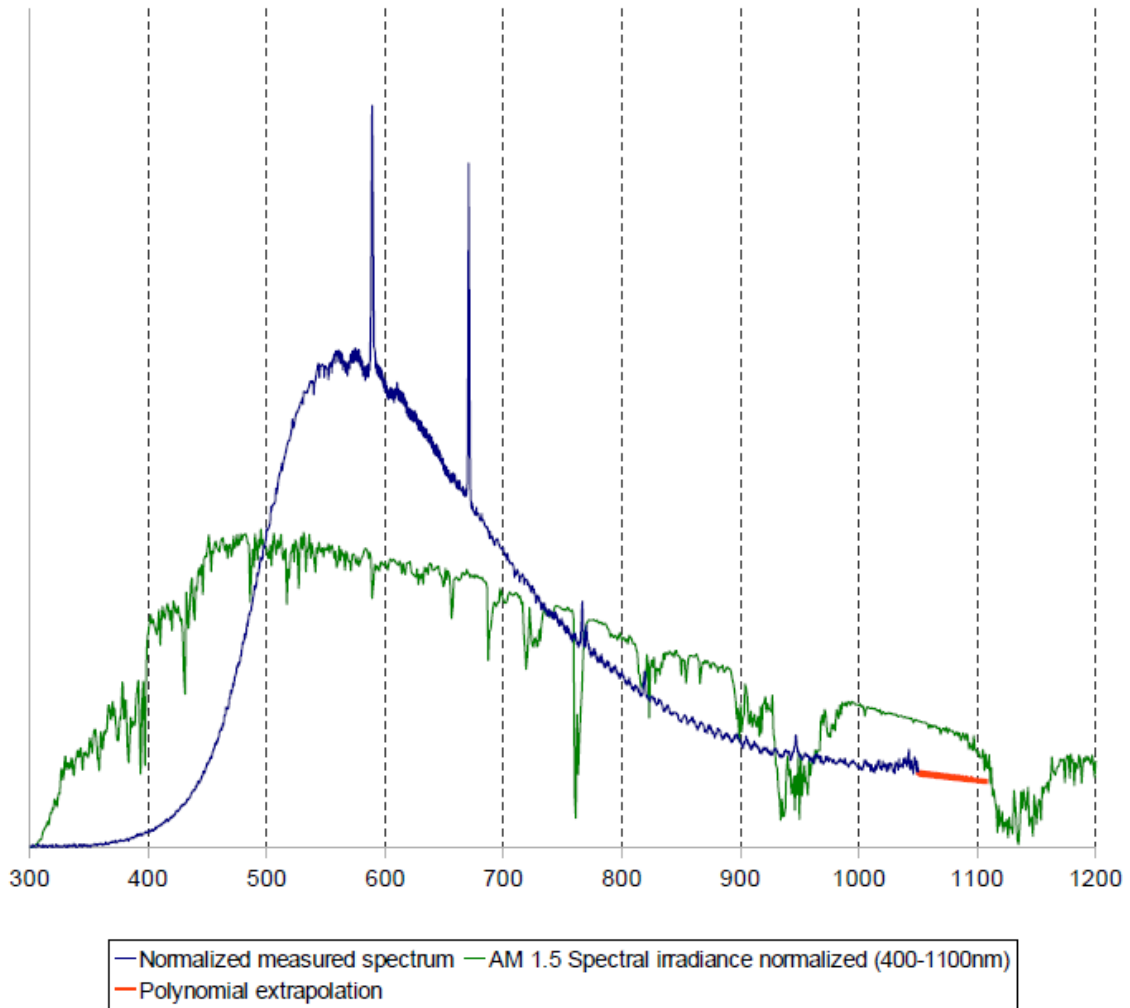
Reference Cell Isc: 14 [mA]

- This information is indicative, following the manufacturing batch, the parameters may change slightly.
- Reference Cell Isc measurement it's performed at 50cm with a reproducible setup. Use this value for compare the relative energetic performance between the bulbs.



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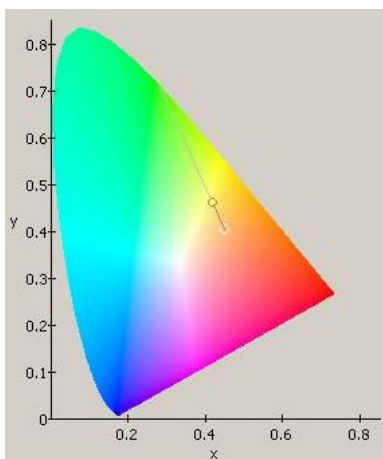
# Bulb Mix7 at 1300W



Wavelength range	AM1.5 ratio	Spectrum ratio	Mismatch	Class
400-500 nm	18.4	6.0	0.32	-
500-600 nm	19.91	29.3	1.47	C
600-700 nm	18.36	26.8	1.46	C
700-800 nm	14.92	16.2	1.08	A
800-900 nm	12.46	9.6	0.77	A
900-1100 nm	15.94	12.2	0.77	A

Class A	Class B	Class C
0.75	0.60	0.40
1.25	1.40	2.00

## Lighting characteristics



Color temperature = 3750 K

Color Render Index = 80 [-]

Colors coordinate:  $x = 0.418$   $y = 0.462$

Reference Cell Isc: 19 [mA]

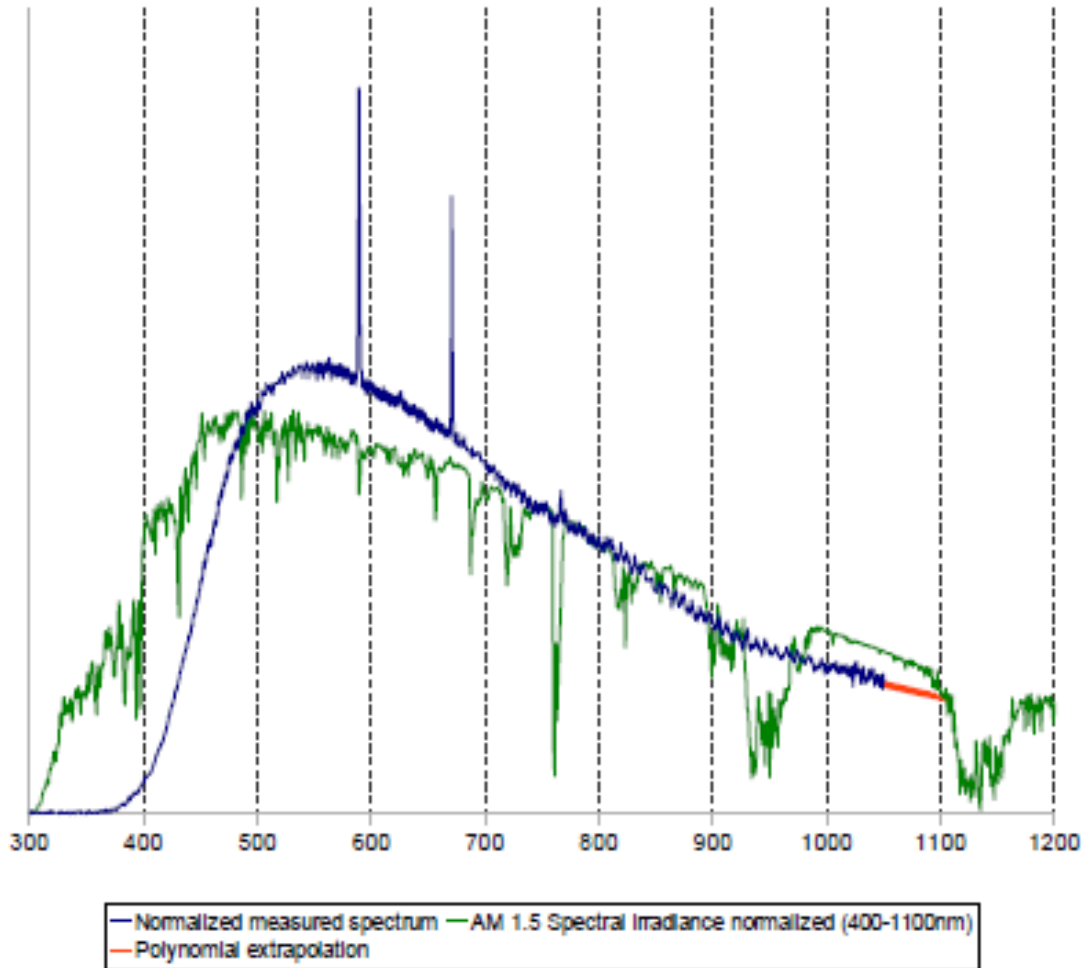
- This information is indicative, following the manufacturing batch, the parameters may change slightly.
- Reference Cell Isc measurement it's performed at 50cm with a reproducible setup. Use this value for compare the relative energetic performance between the bulbs.





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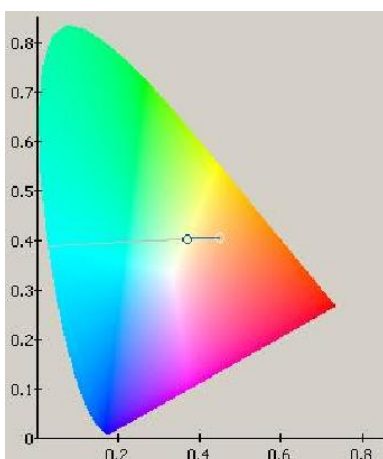
# Bulb Mix12 at 800W



Wavelength range	AM1.5 ratio	Spectrum ratio	Mismatch	Class
400-500 nm	18.4	10.0	0.55	C
500-600 nm	19.91	22.7	1.14	A
600-700 nm	18.36	20.9	1.14	A
700-800 nm	14.92	16.7	1.12	A
800-900 nm	12.46	12.8	1.03	A
900-1100 nm	15.94	16.8	1.05	A

Class A	Class B	Class C
0.75	0.60	0.40
1.25	1.40	2.00

## Lighting characteristics



**Color temperature = 4420 K**

**Color Render Index = 89.9 [-]**

**Colors coordinate: x = 0.371 y = 0.404**

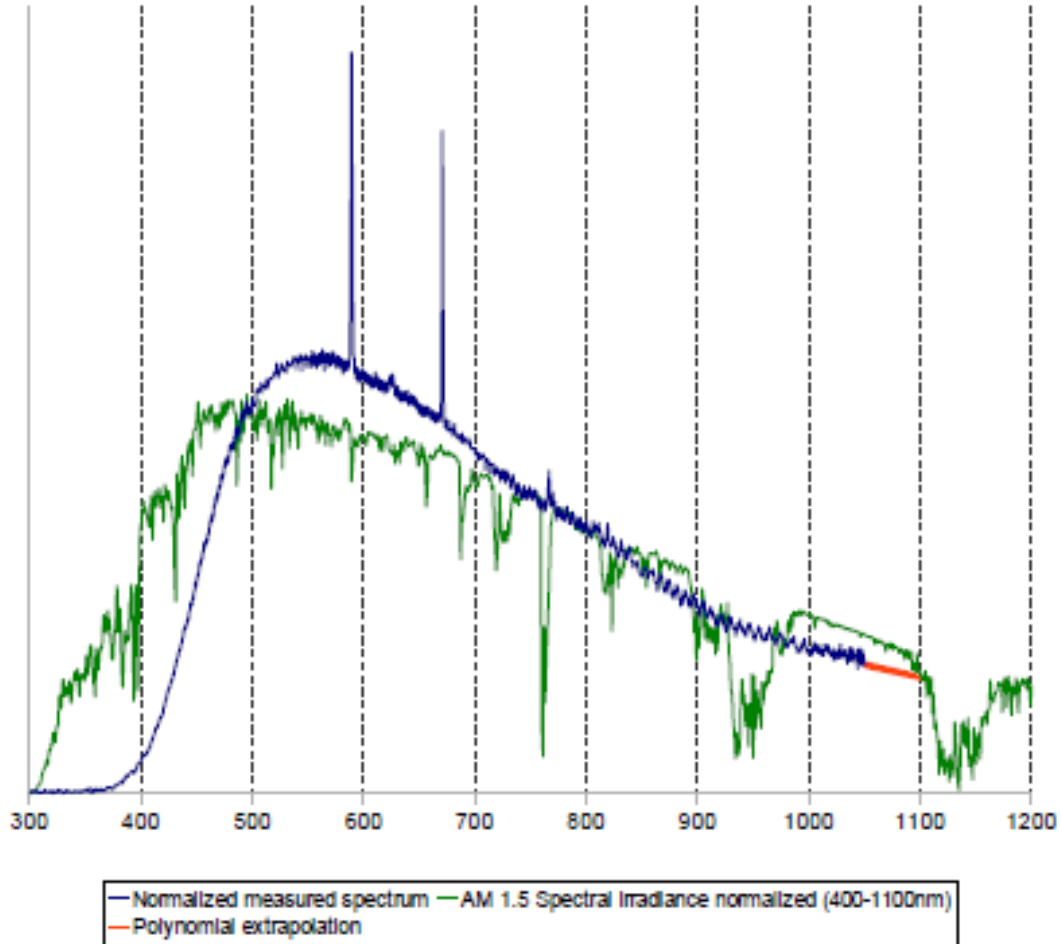
**Reference Cell Isc: 14 [mA]**

- This information is indicative, following the manufacturing batch, the parameters may change slightly.
- Reference Cell Isc measurement it's performed at 50cm with a reproducible setup. Use this value for compare the relative energetic performance between the bulbs.



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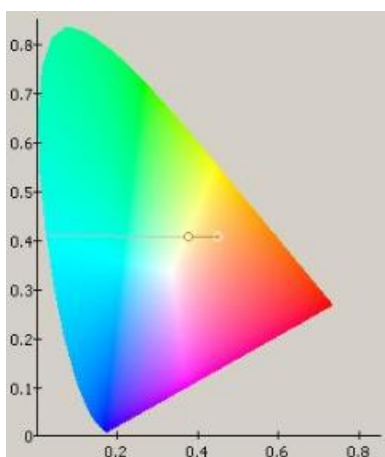
# Bulb Mix12 at 1000W



Wavelength range	AM1.5 ratio	Spectrum ratio	Mismatch	Class
400-500 nm	18.4	9.7	0.53	C
500-600 nm	19.91	22.6	1.14	A
600-700 nm	18.36	21.1	1.15	A
700-800 nm	14.92	16.8	1.12	A
800-900 nm	12.46	12.8	1.03	A
900-1100 nm	15.94	17.0	1.07	A

Class A	Class B	Class C
0.75	0.60	0.40
1.25	1.40	2.00

## Lighting characteristics



**Color temperature = 4305 K**

**Color Render Index = 89.7 [-]**

**Colors coordinate: x = 0.376 y = 0.408**

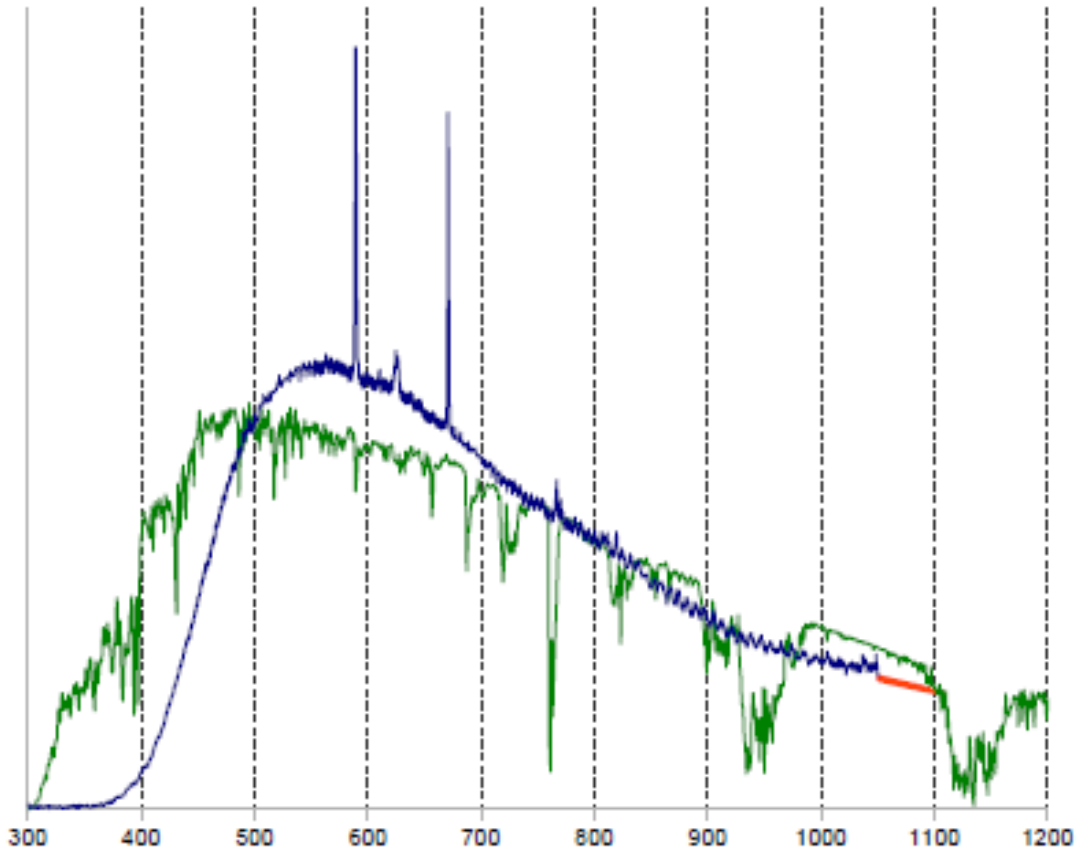
**Reference Cell Isc: 17.8 [mA]**

- This information is indicative, following the manufacturing batch, the parameters may change slightly.
- Reference Cell Isc measurement it's performed at 50cm with a reproducible setup. Use this value for compare the relative energetic performance between the bulbs.



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# Bulb Mix12 at 1300W

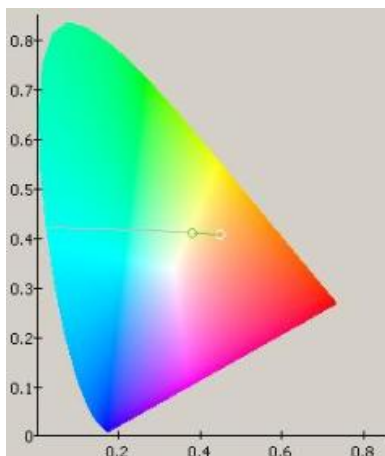


— Normalized measured spectrum — AM 1.5 Spectral Irradiance normalized (400-1100nm)  
 — Polynomial extrapolation

Wavelength range	AM1.5 ratio	Spectrum ratio	Mismatch	Class
400-500 nm	18.4	9.4	0.51	C
500-600 nm	19.91	22.5	1.13	A
600-700 nm	18.36	21.4	1.16	A
700-800 nm	14.92	16.8	1.13	A
800-900 nm	12.46	12.8	1.03	A
900-1100 nm	15.94	17.0	1.07	A

Class A	Class B	Class C
0.75	0.60	0.40
1.25	1.40	2.00

## Lighting characteristics



**Color temperature = 4210 K**

**Color Render Index = 90.0 [-]**

**Colors coordinate: x = 0.381 y = 0.410**

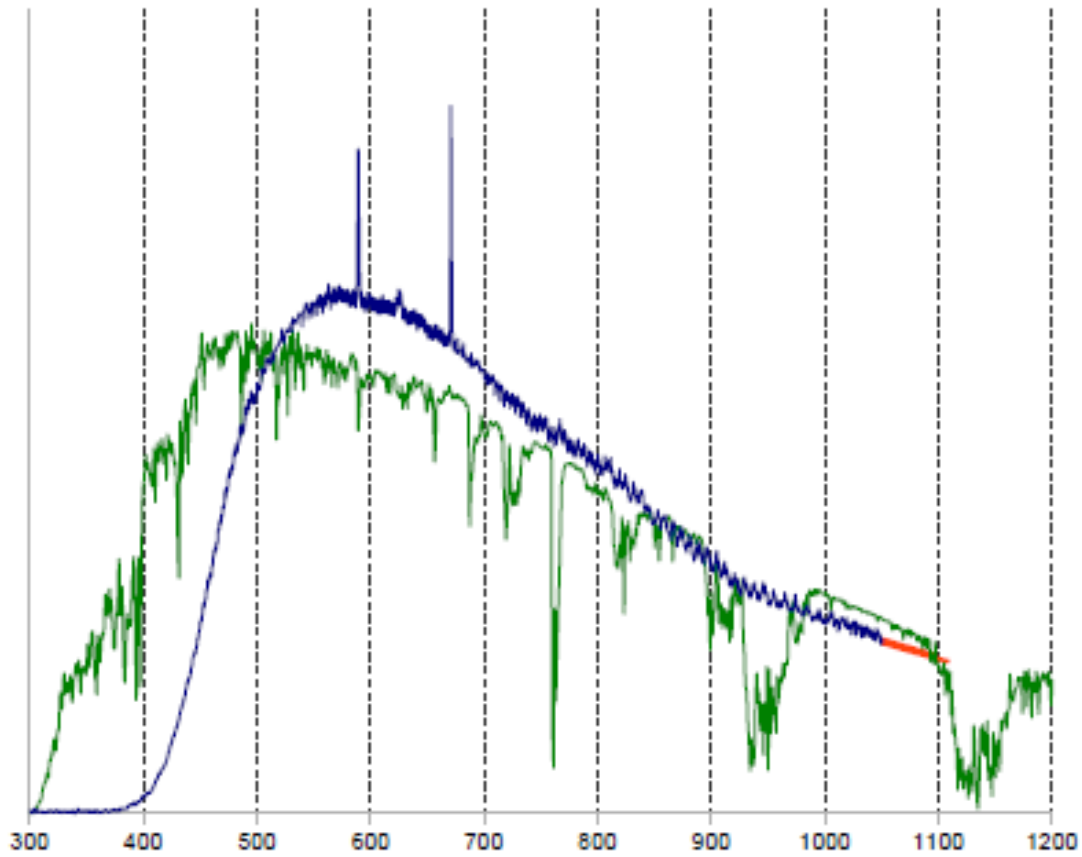
**Reference Cell Isc: 23.8 [mA]**

- This information is indicative, following the manufacturing batch, the parameters may change slightly.
- Reference Cell Isc measurement it's performed at 50cm with a reproducible setup. Use this value for compare the relative energetic performance between the bulbs.



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# Bulb Mix14 at 800W

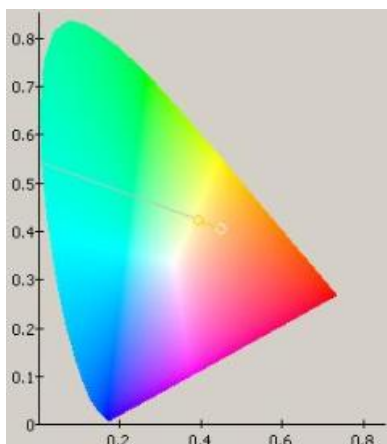


— Normalized measured spectrum — AM 1.5 Spectral Irradiance normalized (400-1100nm)  
 — Polynomial extrapolation

Wavelength range	AM1.5 ratio	Spectrum ratio	Mismatch	Class
400-500 nm	18.4	7.3	0.40	-
500-600 nm	19.91	21.2	1.06	A
600-700 nm	18.36	21.4	1.17	A
700-800 nm	14.92	17.7	1.19	A
800-900 nm	12.46	13.8	1.11	A
900-1100 nm	15.94	18.5	1.16	A

Class A	Class B	Class C
0.75	0.60	0.40
1.25	1.40	2.00

## Lighting characteristics



**Color temperature = 3992 K**

**Color Render Index = 89.2 [-]**

**Colors coordinate: x = 0.394 y = 0.424**

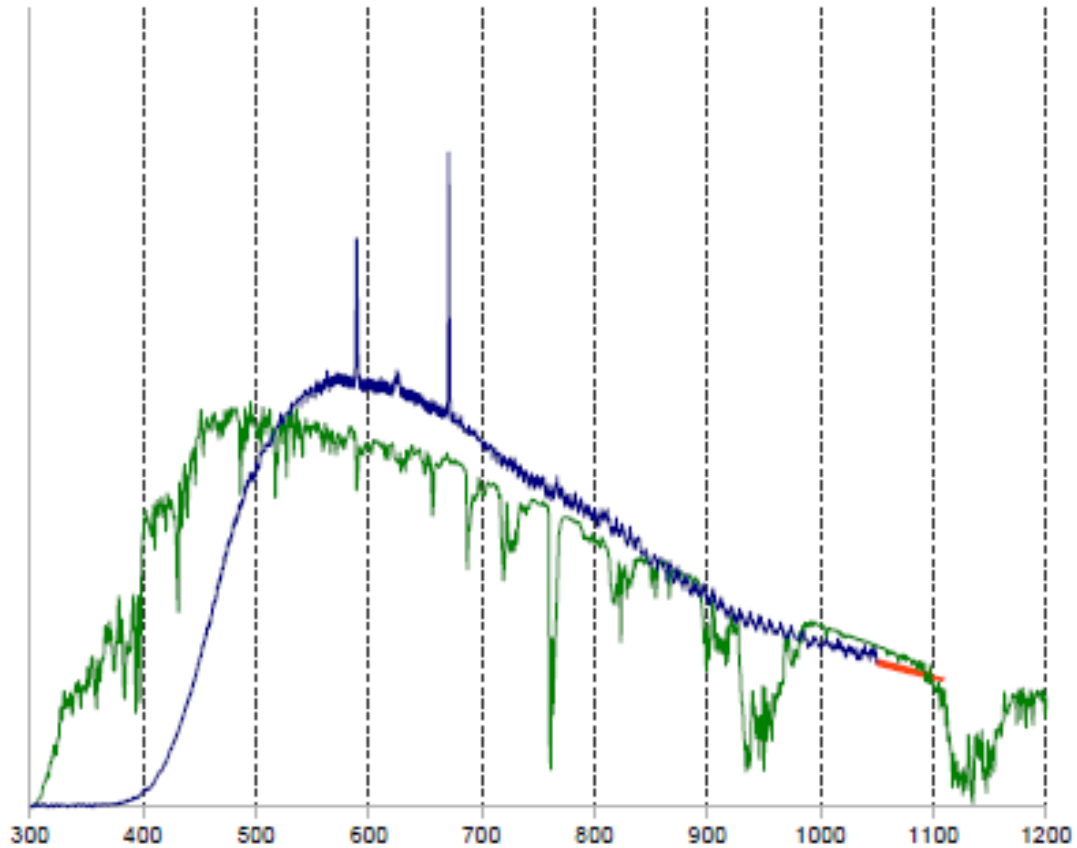
**Reference Cell Isc: 13.1 [mA]**

- This information is indicative, following the manufacturing batch, the parameters may change slightly.
- Reference Cell Isc measurement it's performed at 50cm with a reproducible setup. Use this value for compare the relative energetic performance between the bulbs.



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# Bulb Mix14 at 1000W

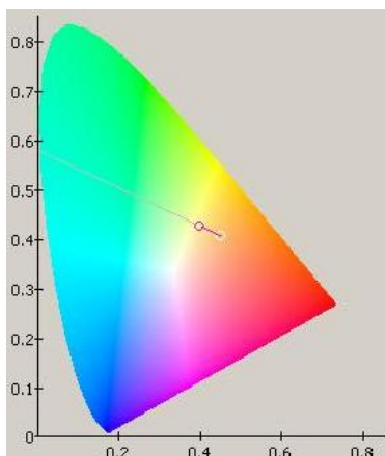


— Normalized measured spectrum — AM 1.5 Spectral Irradiance normalized (400-1100nm)  
 — Polynomial extrapolation

Wavelength range	AM1.5 ratio	Spectrum ratio	Mismatch	Class
400-500 nm	18.4	6.9	0.38	-
500-600 nm	19.91	20.9	1.05	A
600-700 nm	18.36	21.5	1.17	A
700-800 nm	14.92	17.8	1.20	A
800-900 nm	12.46	14.0	1.12	A
900-1100 nm	15.94	18.8	1.18	A

Class A	Class B	Class C
0.75	0.60	0.40
1.25	1.40	2.00

## Lighting characteristics



**Color temperature = 3908 K**

**Color Render Index = 88.9 [-]**

**Colors coordinate: x = 0.398 y = 0.427**

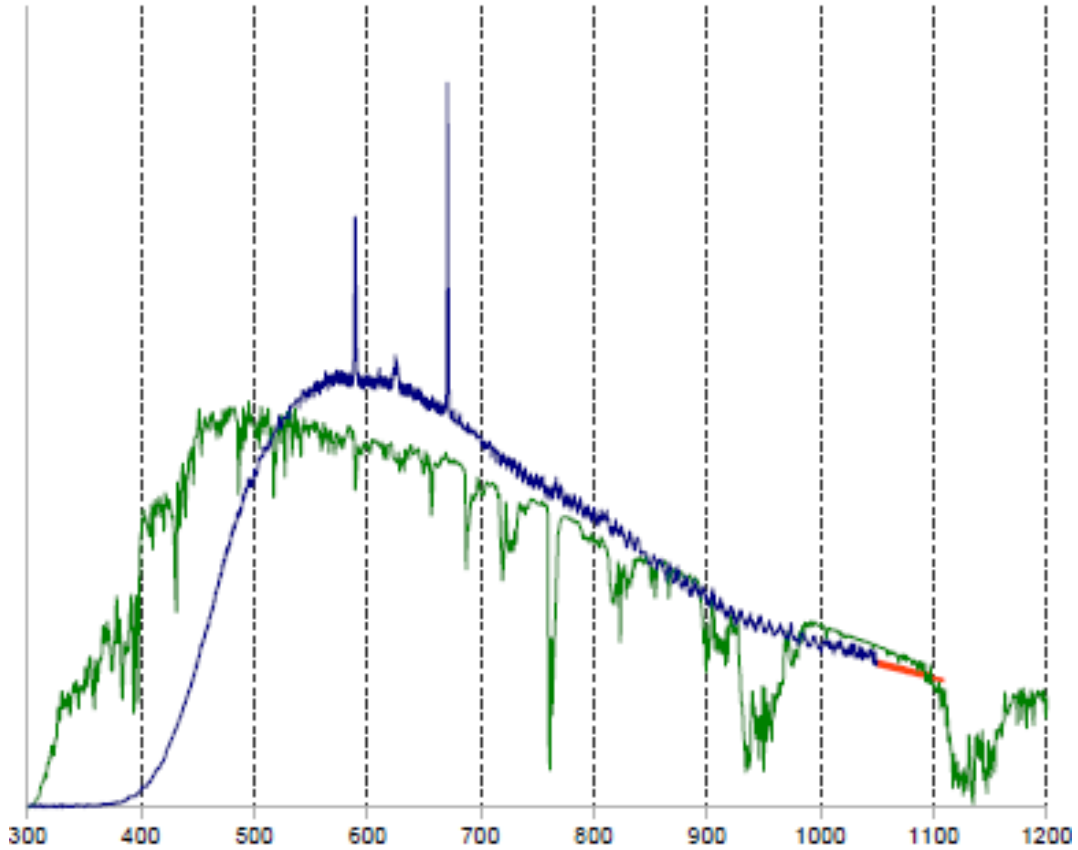
**Reference Cell Isc: 16.7 [mA]**

- This information is indicative, following the manufacturing batch, the parameters may change slightly.
- Reference Cell Isc measurement it's performed at 50cm with a reproducible setup. Use this value for compare the relative energetic performance between the bulbs.



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# Bulb Mix14 at 1300W

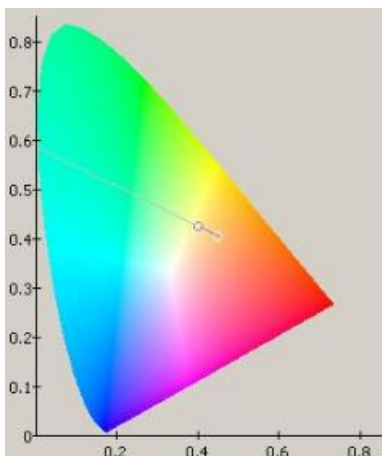


— Normalized measured spectrum — AM 1.5 Spectral Irradiance normalized (400-1100nm)  
 — Polynomial extrapolation

Wavelength range	AM1.5 ratio	Spectrum ratio	Mismatch	Class
400-500 nm	18.4	6.9	0.37	-
500-600 nm	19.91	20.8	1.04	A
600-700 nm	18.36	21.8	1.19	A
700-800 nm	14.92	17.9	1.20	A
800-900 nm	12.46	14.0	1.12	A
900-1100 nm	15.94	18.7	1.17	A

Class A	Class B	Class C
0.75	0.60	0.40
1.25	1.40	2.00

## Lighting characteristics



Color temperature = 3859 K

Color Render Index = 89.3 [-]

Colors coordinate:  $x = 0.401$   $y = 0.427$

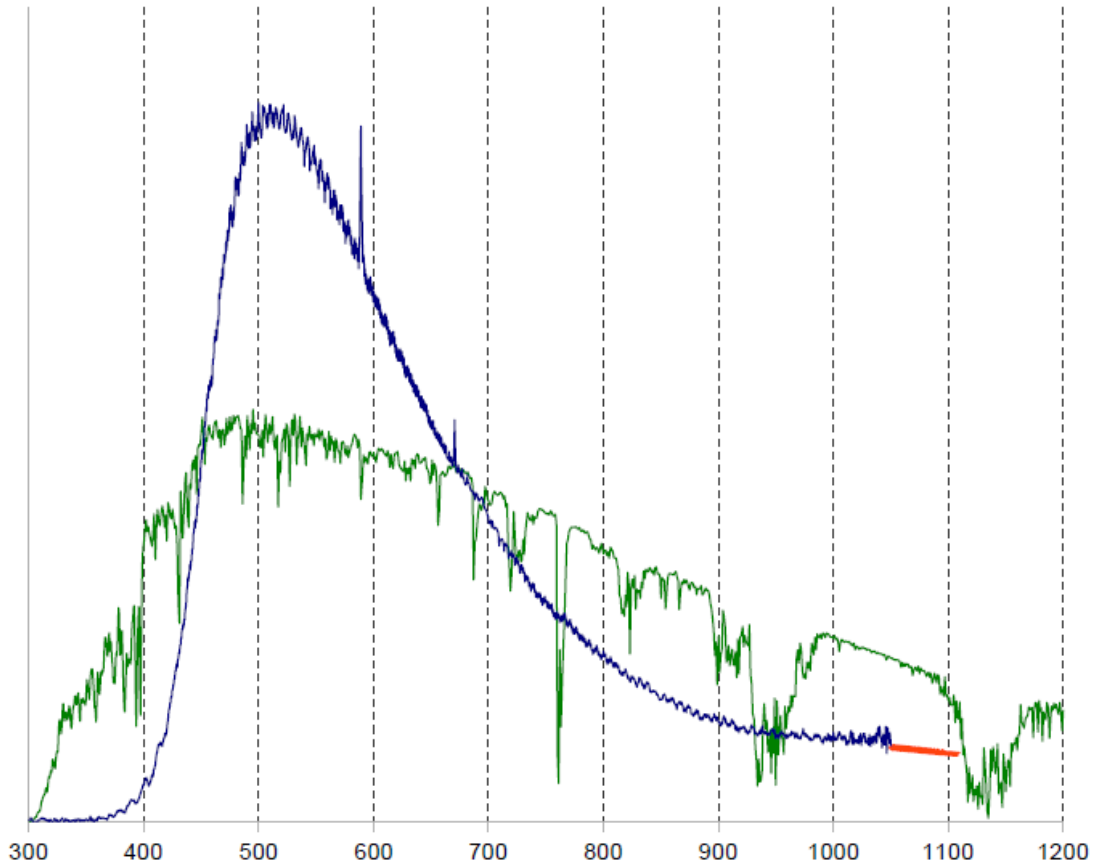
Reference Cell Isc: 22 [mA]

- This information is indicative, following the manufacturing batch, the parameters may change slightly.
- Reference Cell Isc measurement it's performed at 50cm with a reproducible setup. Use this value for compare the relative energetic performance between the bulbs.



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# Bulb Mix15 at 800W

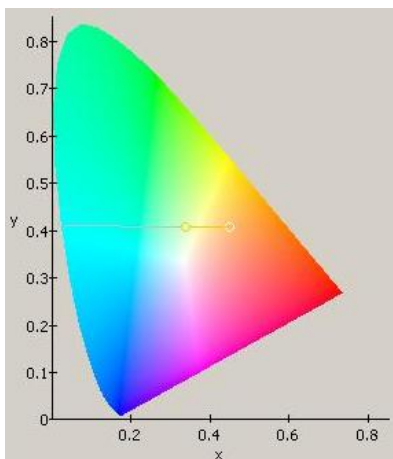


— Normalized measured spectrum — AM 1.5 Spectral irradiance normalized (400-1100nm)  
 — Polynomial extrapolation

Wavelength range	AM1.5 ratio	Spectrum ratio	Mismatch	Class
400-500 nm	18.4	15.6	0.85	A
500-600 nm	19.91	33.6	1.69	C
600-700 nm	18.36	21.9	1.19	A
700-800 nm	14.92	12.5	0.84	A
800-900 nm	12.46	7.1	0.57	C
900-1100 nm	15.94	9.3	0.58	C

Class A	Class B	Class C
0.75	0.60	0.40
1.25	1.40	2.00

## Lighting characteristics



Color temperature = 5300 K

Color Render Index = 82.5 [-]

Colors coordinate:  $x = 0.339$   $y = 0.408$

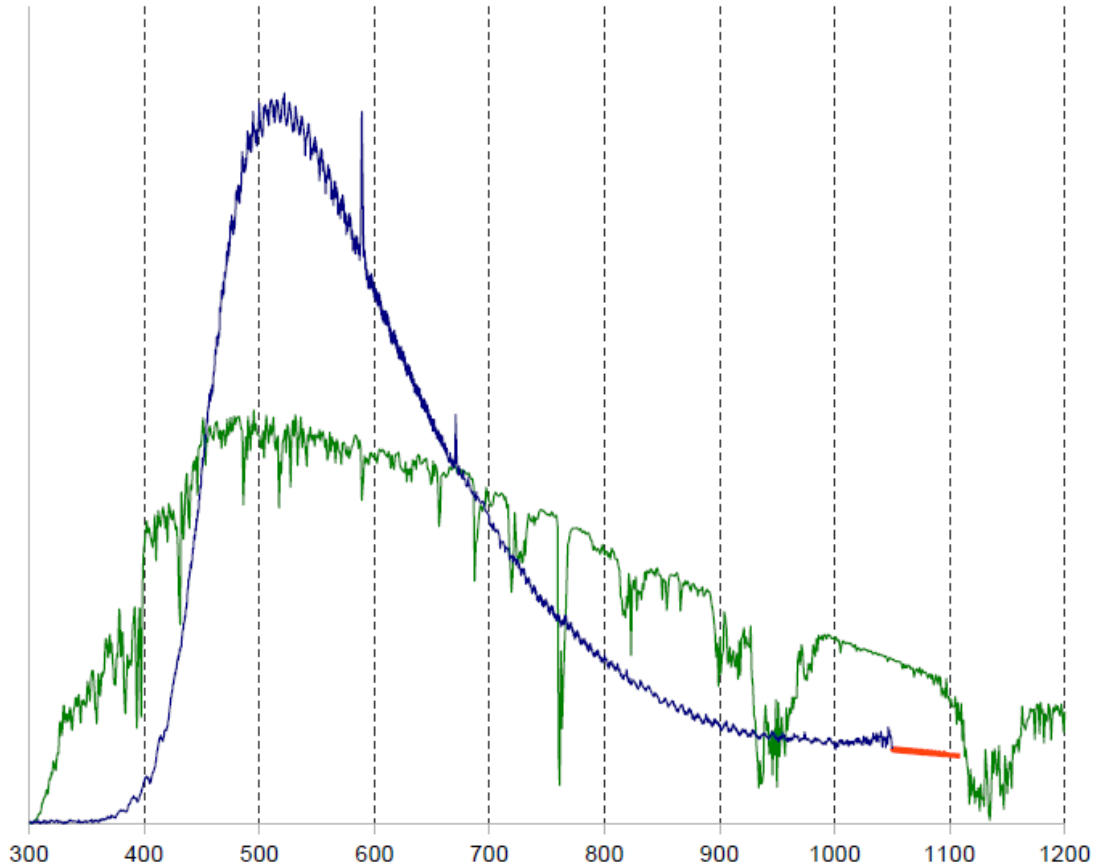
Reference Cell Isc: 14 [mA]

- This information is indicative, following the manufacturing batch, the parameters may change slightly.
- Reference Cell Isc measurement it's performed at 50cm with a reproducible setup. Use this value for compare the relative energetic performance between the bulbs.



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# Bulb Mix15 at 1000W

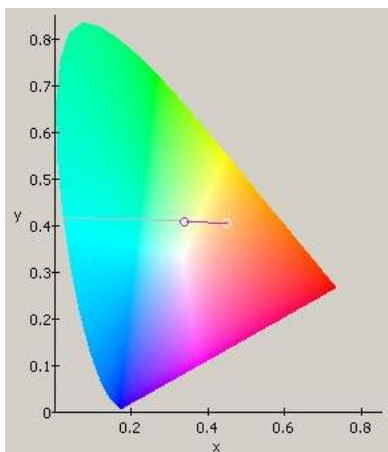


— Normalized measured spectrum — AM 1.5 Spectral irradiance normalized (400-1100nm)  
 — Polynomial extrapolation

Wavelength range	AM1.5 ratio	Spectrum ratio	Mismatch	Class
400-500 nm	18.4	15.5	0.84	A
500-600 nm	19.91	34.0	1.71	C
600-700 nm	18.36	22.0	1.20	A
700-800 nm	14.92	12.4	0.83	A
800-900 nm	12.46	7.0	0.56	C
900-1100 nm	15.94	9.2	0.57	C

Class A	Class B	Class C
0.75	0.60	0.40
1.25	1.40	2.00

## Lighting characteristics



Color temperature = 5300 K

Color Render Index = 82 [-]

Colors coordinate:  $x = 0.340$   $y = 0.410$

Reference Cell Isc: 18 [mA]

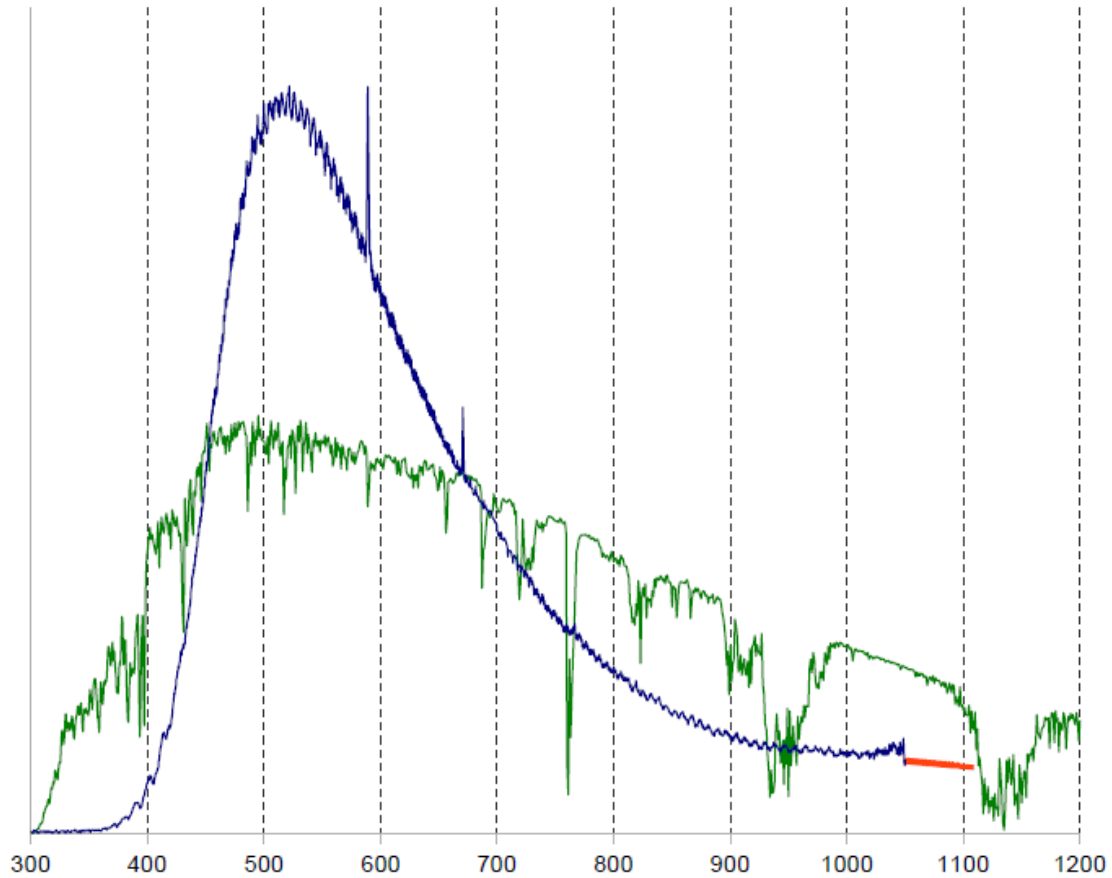
- This information is indicative, following the manufacturing batch, the parameters may change slightly.
- Reference Cell Isc measurement it's performed at 50cm with a reproducible setup. Use this value for compare the relative energetic performance between the bulbs.





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# Bulb Mix15 at 1300W

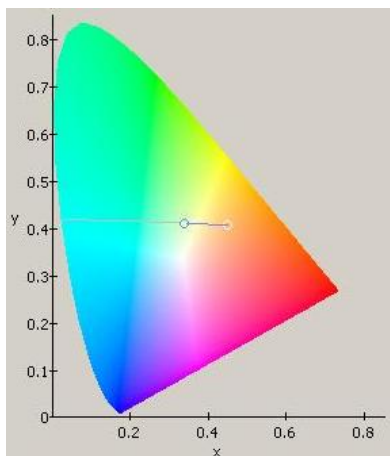


— Normalized measured spectrum — AM 1.5 Spectral irradiance normalized (400-1100nm)  
 — Polynomial extrapolation

Wavelength range	AM1.5 ratio	Spectrum ratio	Mismatch	Class
400-500 nm	18.4	15.8	0.86	A
500-600 nm	19.91	34.3	1.72	C
600-700 nm	18.36	21.9	1.20	A
700-800 nm	14.92	12.2	0.82	A
800-900 nm	12.46	6.9	0.55	C
900-1100 nm	15.94	8.9	0.56	C

Class A	Class B	Class C
0.75	0.60	0.40
1.25	1.40	2.00

## Lighting characteristics



Color temperature = 5300 K

Color Render Index = 82 [-]

Colors coordinate:  $x = 0.339$   $y = 0.410$

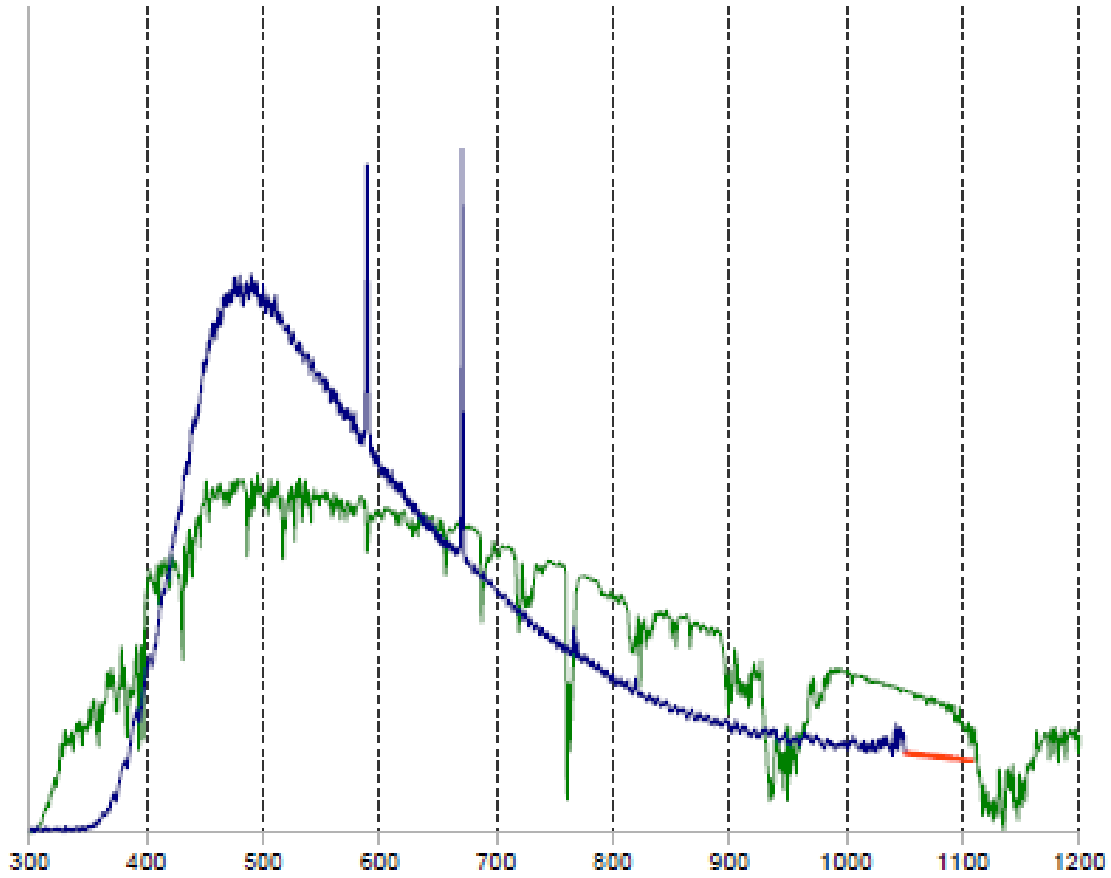
Reference Cell Isc: 24.5 [mA]

- This information is indicative, following the manufacturing batch, the parameters may change slightly.
- Reference Cell Isc measurement it's performed at 50cm with a reproducible setup. Use this value for compare the relative energetic performance between the bulbs.



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# Bulb Mix16 at 800W

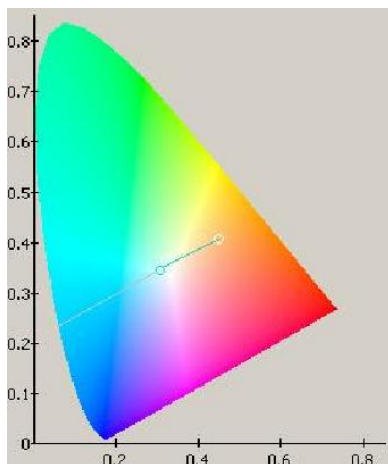


— Normalized measured spectrum — AM 1.5 Spectral Irradiance normalized (400-1100nm)  
 — Polynomial extrapolation

Wavelength range	AM1.5 ratio	Spectrum ratio	Mismatch	Class
400-500 nm	18.4	22.2	1.21	A
500-600 nm	19.91	27.5	1.38	B
600-700 nm	18.36	18.7	1.02	A
700-800 nm	14.92	12.2	0.82	A
800-900 nm	12.46	8.0	0.64	B
900-1100 nm	15.94	11.4	0.71	B

Class A	Class B	Class C
0.75	0.80	0.40
1.25	1.40	2.00

## Lighting characteristics



**Color temperature = 6604 K**

**Color Render Index = 92.3 [-]**

**Colors coordinate: x = 0.309 y = 0.345**

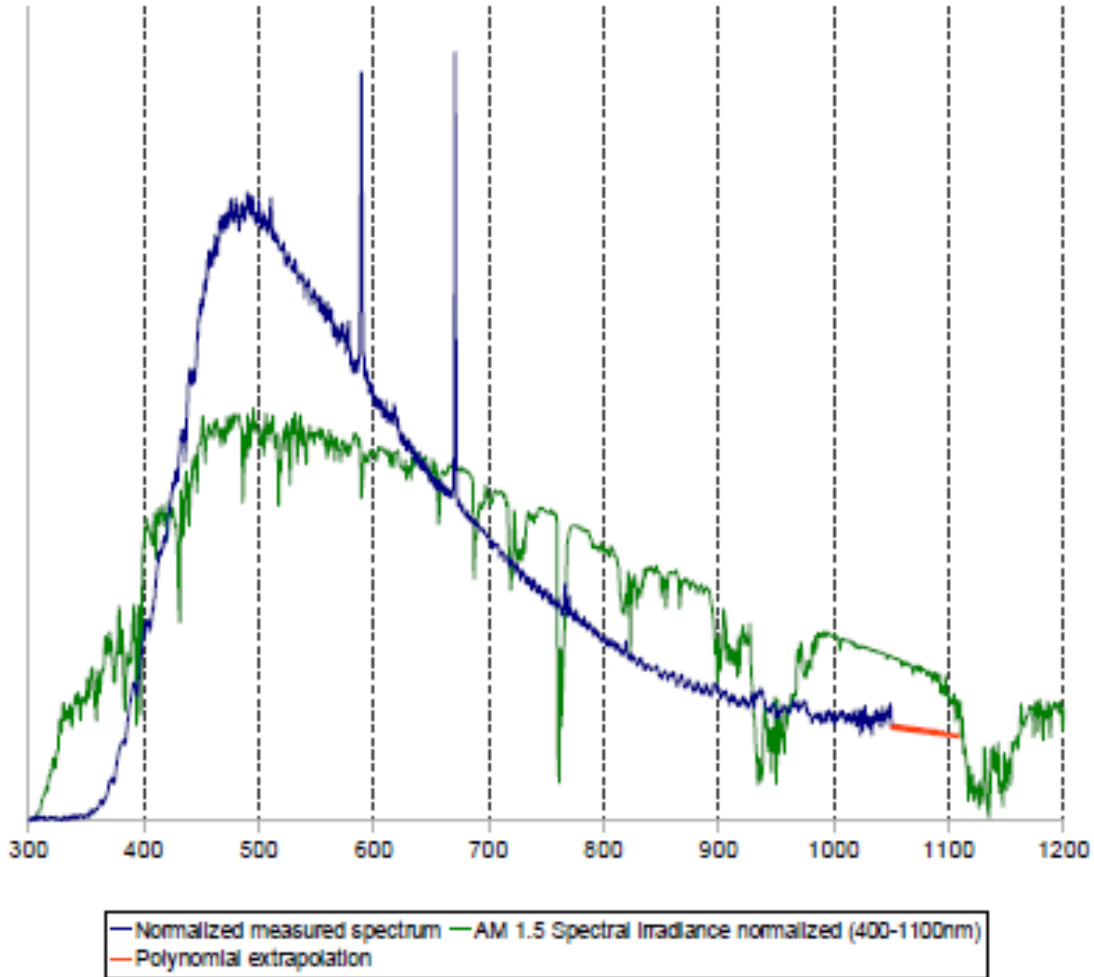
**Reference Cell Isc: 7.6 [mA]**

- This information is indicative, following the manufacturing batch, the parameters may change slightly.
- Reference Cell Isc measurement it's performed at 50cm with a reproducible setup. Use this value for compare the relative energetic performance between the bulbs.



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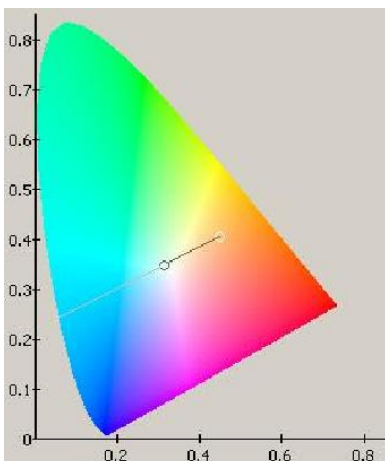
# Bulb Mix16 at 1000W



Wavelength range	AM1.5 ratio	Spectrum ratio	Mismatch	Class
400-500 nm	18.4	21.4	1.16	A
500-600 nm	19.91	27.4	1.38	B
600-700 nm	18.36	18.8	1.03	A
700-800 nm	14.92	12.4	0.83	A
800-900 nm	12.46	8.2	0.66	B
900-1100 nm	15.94	11.7	0.74	B

Class A	Class B	Class C
0.75	0.00	0.40
1.25	1.40	2.00

## Lighting characteristics



**Color temperature = 6377 K**

**Color Render Index = 91.8 [-]**

**Colors coordinate: x = 0.313 y = 0.350**

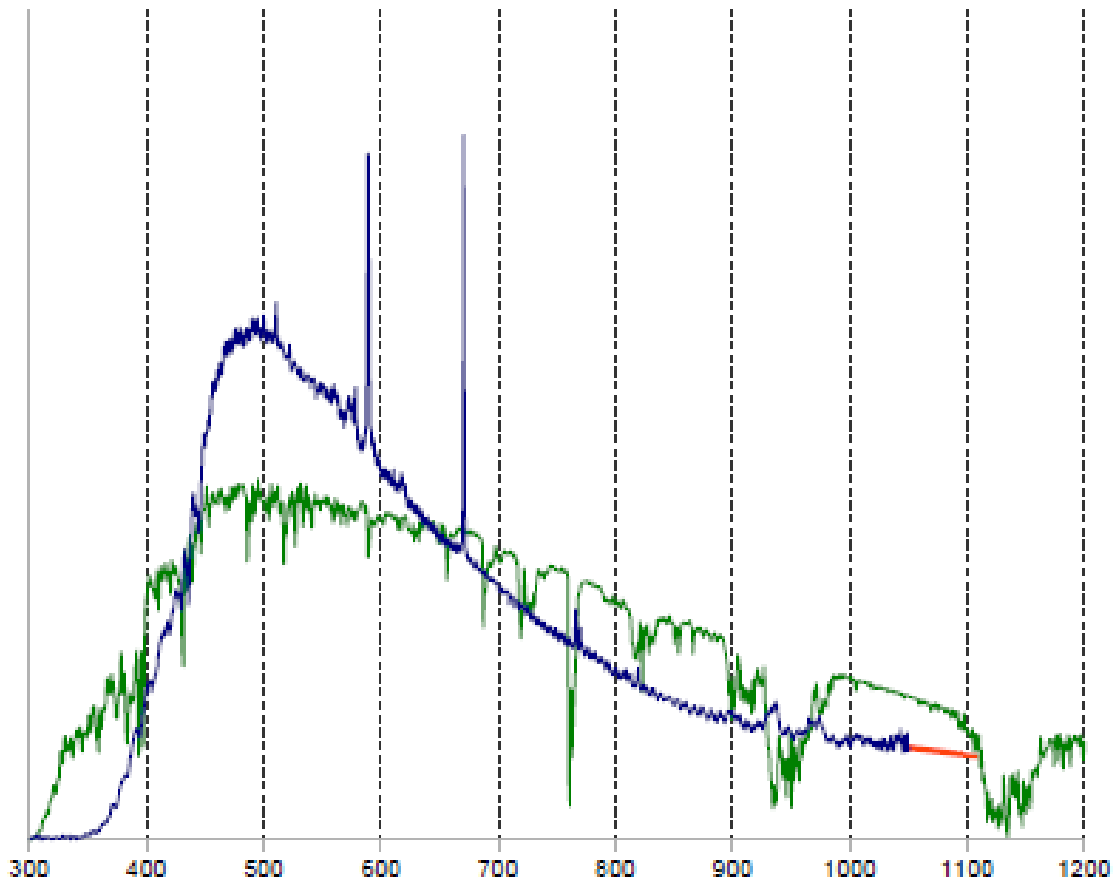
**Reference Cell Isc: 9.3 [mA]**

- This information is indicative, following the manufacturing batch, the parameters may change slightly.
- Reference Cell Isc measurement it's performed at 50cm with a reproducible setup. Use this value for compare the relative energetic performance between the bulbs.



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# Bulb Mix16 at 1300W

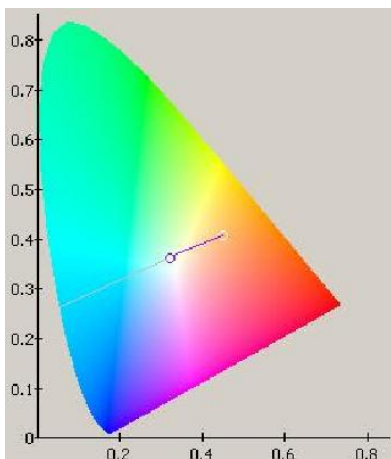


— Normalized measured spectrum — AM 1.5 Spectral Irradiance normalized (400-1100nm)  
 — Polynomial extrapolation

Wavelength range	AM1.5 ratio	Spectrum ratio	Mismatch	Class
400-500 nm	18.4	19.3	1.05	A
500-600 nm	19.91	27.0	1.36	B
600-700 nm	18.36	19.1	1.04	A
700-800 nm	14.92	12.9	0.87	A
800-900 nm	12.46	8.7	0.70	B
900-1100 nm	15.94	13.0	0.81	A

Class A	Class B	Class C
0.75	0.60	0.40
1.25	1.40	2.00

## Lighting characteristics



**Color temperature = 5931 K**

**Color Render Index = 90.5 [-]**

**Colors coordinate: x = 0.322 y = 0.362**

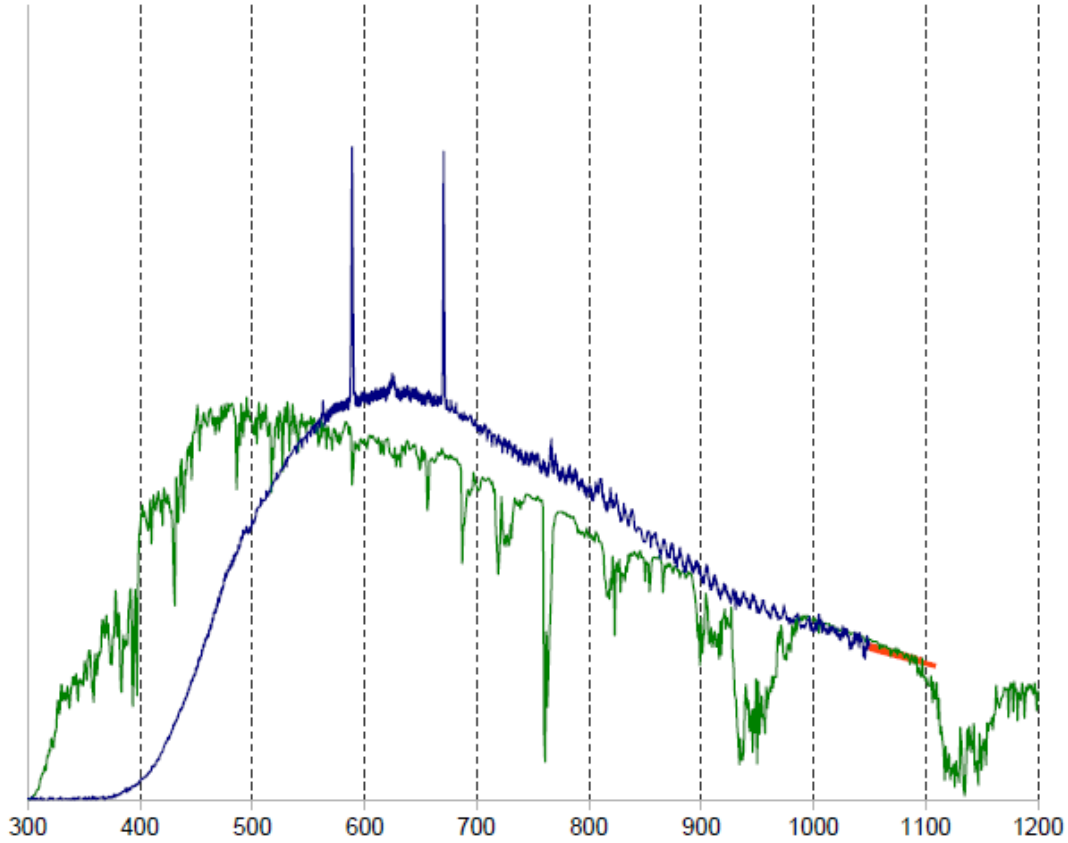
**Reference Cell Isc: 14.6 [mA]**

- This information is indicative, following the manufacturing batch, the parameters may change slightly.
- Reference Cell Isc measurement it's performed at 50cm with a reproducible setup. Use this value for compare the relative energetic performance between the bulbs.



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# Bulb Mix18 at 800W

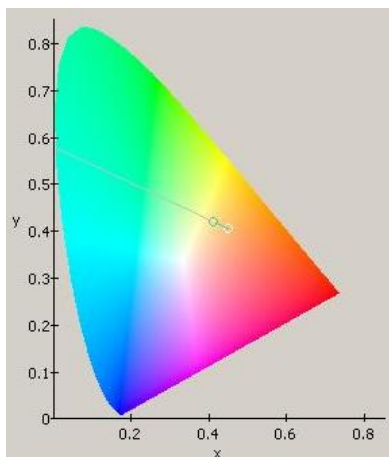


— Normalized measured spectrum — AM 1.5 Spectral irradiance normalized (400-1100nm)  
 — Polynomial extrapolation

Wavelength range	AM1.5 ratio	Spectrum ratio	Mismatch	Class
400-500 nm	18.4	6.1	0.33	-
500-600 nm	19.91	18.5	0.93	A
600-700 nm	18.36	21.4	1.17	A
700-800 nm	14.92	18.8	1.26	B
800-900 nm	12.46	15.1	1.21	A
900-1100 nm	15.94	20.1	1.26	B

Class A	Class B	Class C
0.75	0.60	0.40
1.25	1.40	2.00

## Lighting characteristics



Color temperature = 3600 K

Color Render Index = 91.5 [-]

Colors coordinate:  $x = 0.411$   $y = 0.422$

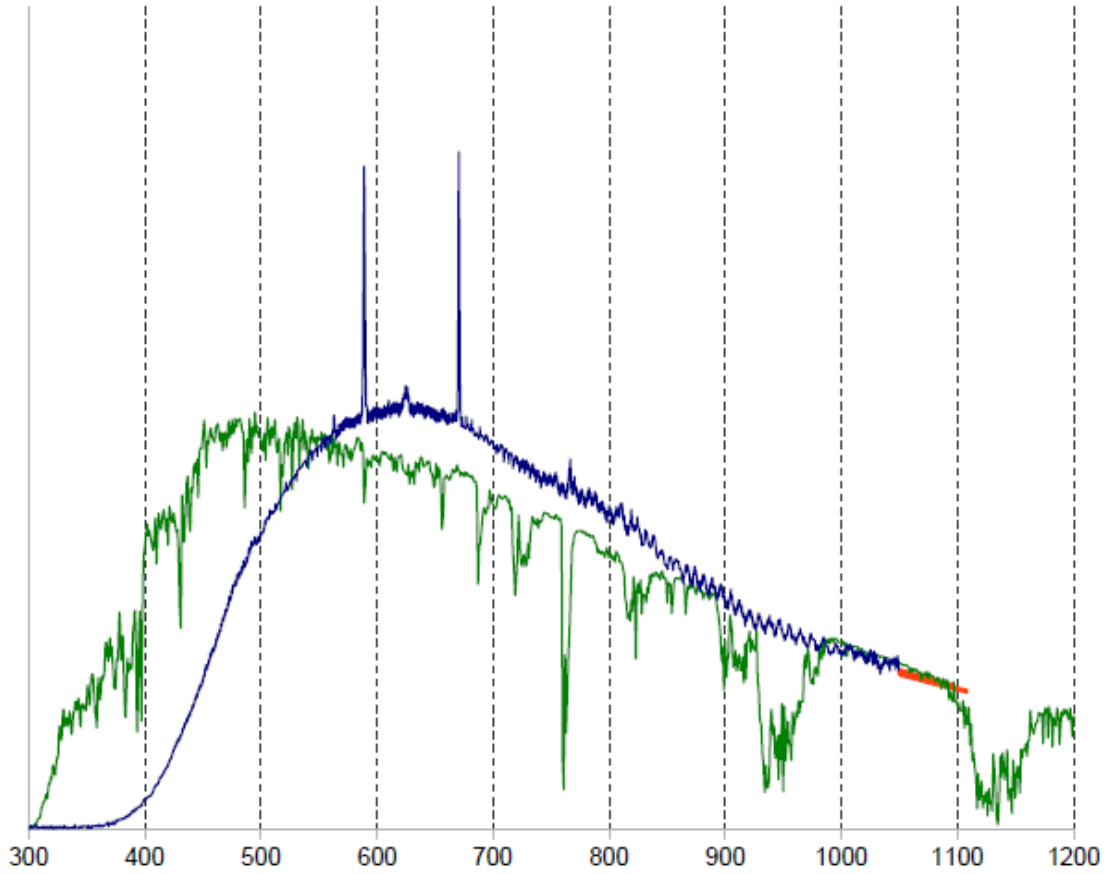
Reference Cell Isc: 13 [mA]

- This information is indicative, following the manufacturing batch, the parameters may change slightly.
- Reference Cell Isc measurement it's performed at 50cm with a reproducible setup. Use this value for compare the relative energetic performance between the bulbs.



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# Bulb Mix18 at 1000W

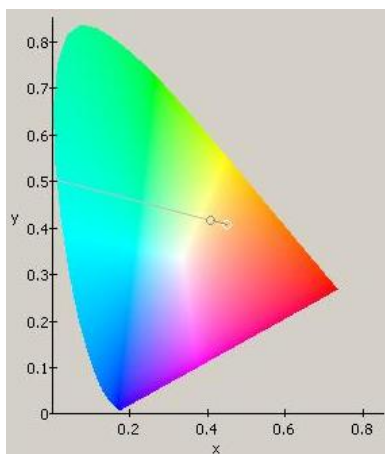


— Normalized measured spectrum — AM 1.5 Spectral irradiance normalized (400-1100nm)  
 — Polynomial extrapolation

Wavelength range	AM1.5 ratio	Spectrum ratio	Mismatch	Class
400-500 nm	18.4	6.7	0.37	-
500-600 nm	19.91	18.6	0.94	A
600-700 nm	18.36	21.4	1.16	A
700-800 nm	14.92	18.6	1.24	A
800-900 nm	12.46	14.8	1.19	A
900-1100 nm	15.94	19.9	1.25	A

Class A	Class B	Class C
0.75	0.60	0.40
1.25	1.40	2.00

## Lighting characteristics



Color temperature = 3675 K

Color Render Index = 92 [-]

Colors coordinate:  $x = 0.406$   $y = 0.417$

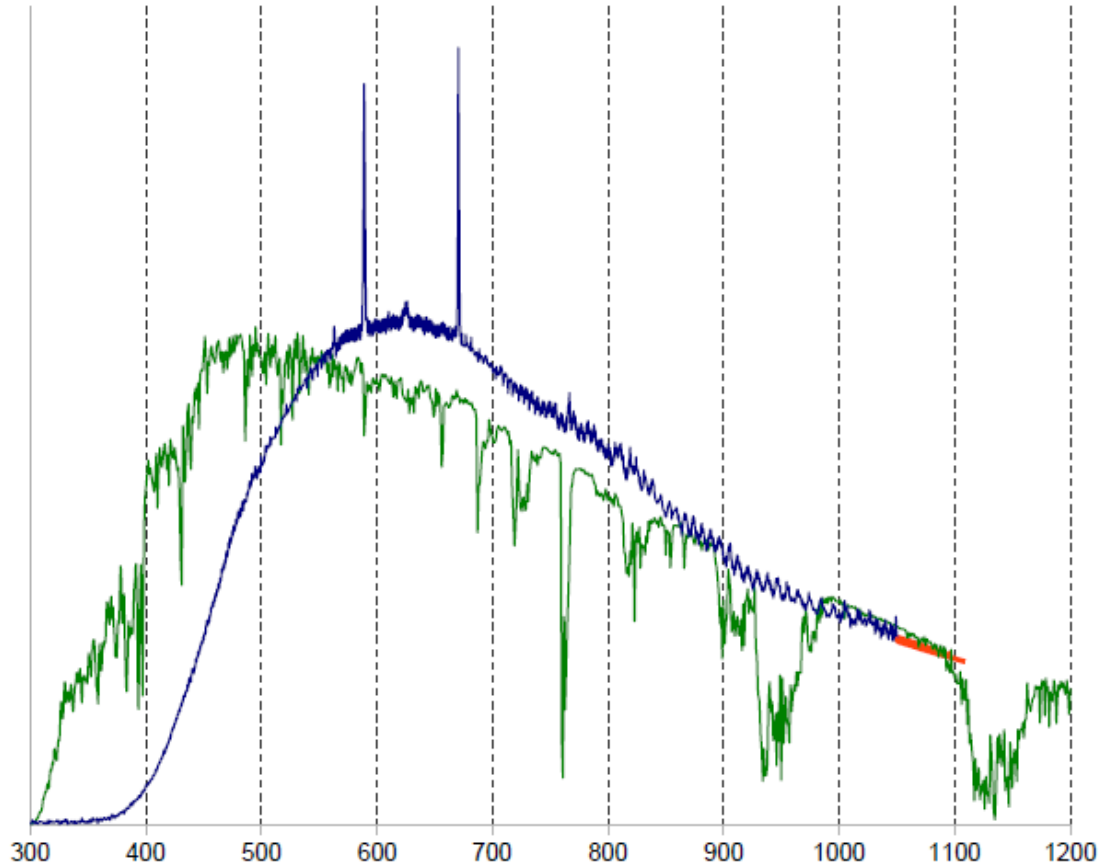
Reference Cell Isc: 16.5 [mA]

- This information is indicative, following the manufacturing batch, the parameters may change slightly.
- Reference Cell Isc measurement it's performed at 50cm with a reproducible setup. Use this value for compare the relative energetic performance between the bulbs.



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# Bulb Mix18 at 1300W

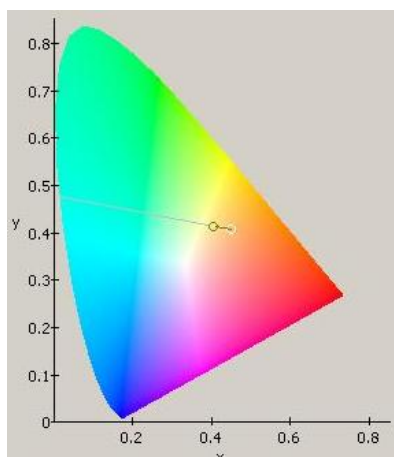


— Normalized measured spectrum — AM 1.5 Spectral irradiance normalized (400-1100nm)  
 — Polynomial extrapolation

Wavelength range	AM1.5 ratio	Spectrum ratio	Mismatch	Class
400-500 nm	18.4	7.1	0.38	-
500-600 nm	19.91	18.9	0.95	A
600-700 nm	18.36	21.4	1.16	A
700-800 nm	14.92	18.5	1.24	A
800-900 nm	12.46	14.6	1.17	A
900-1100 nm	15.94	19.7	1.23	A

Class A	Class B	Class C
0.75	0.60	0.40
1.25	1.40	2.00

## Lighting characteristics



Color temperature = 3730 K

Color Render Index = 92 [-]

Colors coordinate:  $x = 0.403$   $y = 0.415$

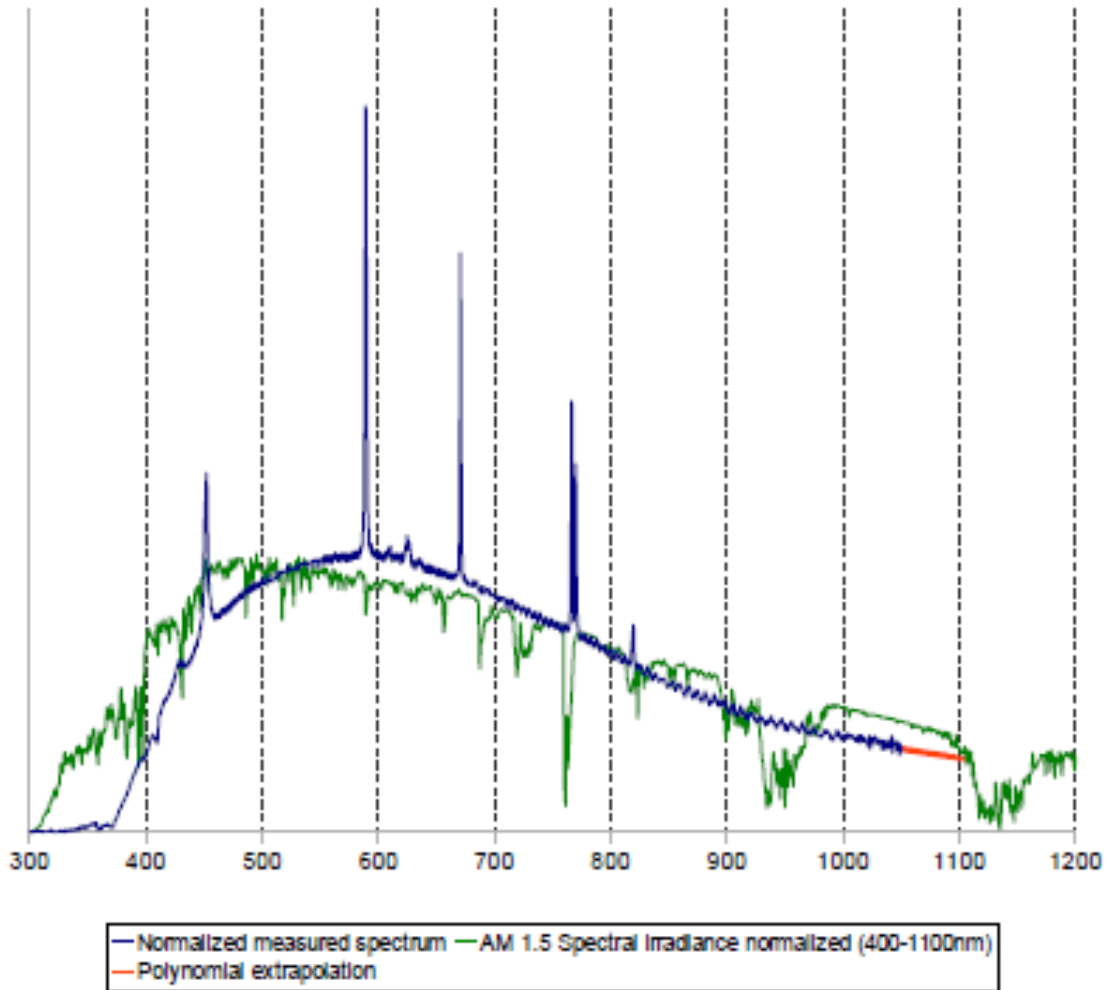
Reference Cell Isc: 22 [mA]

- This information is indicative, following the manufacturing batch, the parameters may change slightly.
- Reference Cell Isc measurement it's performed at 50cm with a reproducible setup. Use this value for compare the relative energetic performance between the bulbs.



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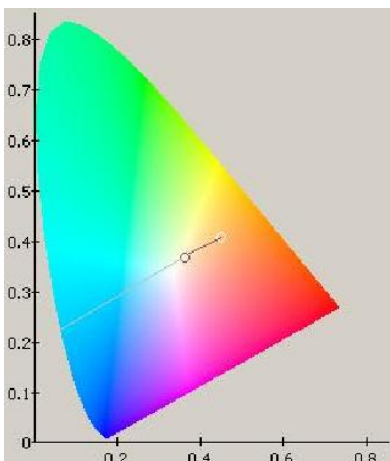
# Bulb Mix21 at 800W



Wavelength range	AM1.5 ratio	Spectrum ratio	Mismatch	Class
400-500 nm	18.4	13.4	0.73	B
500-600 nm	19.91	20.8	1.05	A
600-700 nm	18.36	20.5	1.12	A
700-800 nm	14.92	17.0	1.14	A
800-900 nm	12.46	12.2	0.98	A
900-1100 nm	15.94	15.9	1.00	A

Class A	Class B	Class C
0.75	0.60	0.40
1.25	1.40	2.00

## Lighting characteristics



**Color temperature = 4430 K**

**Color Render Index = 95.5 [-]**

**Colors coordinate: x = 0.364 y = 0.367**

**Reference Cell Isc: 11.2 [mA]**

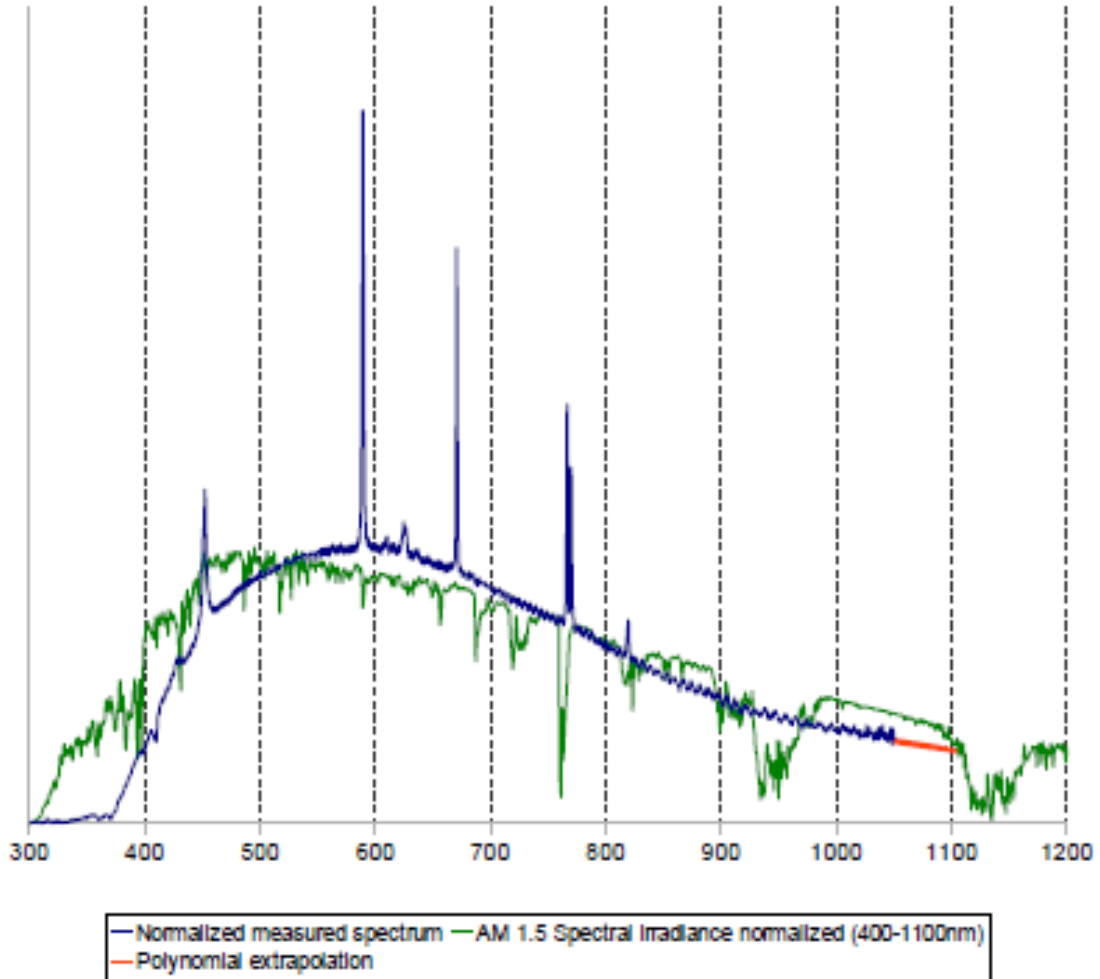
- This information is indicative, following the manufacturing batch, the parameters may change slightly.
- Reference Cell Isc measurement it's performed at 50cm with a reproducible setup. Use this value for compare the relative energetic performance between the bulbs.





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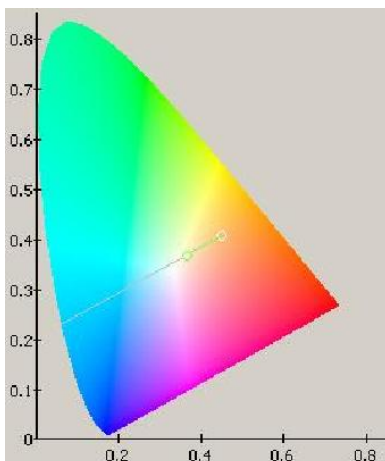
# Bulb Mix21 at 1000W



Wavelength range	AM1.5 ratio	Spectrum ratio	Mismatch	Class
400-500 nm	18.4	13.2	0.72	B
500-600 nm	19.91	20.9	1.05	A
600-700 nm	18.36	20.7	1.13	A
700-800 nm	14.92	17.1	1.15	A
800-900 nm	12.46	12.2	0.98	A
900-1100 nm	15.94	15.9	1.00	A

Class A	Class B	Class C
0.75	0.60	0.40
1.25	1.40	2.00

## Lighting characteristics



**Color temperature = 4410 K**

**Color Render Index = 95.3 [-]**

**Colors coordinate: x = 0.365 y = 0.369**

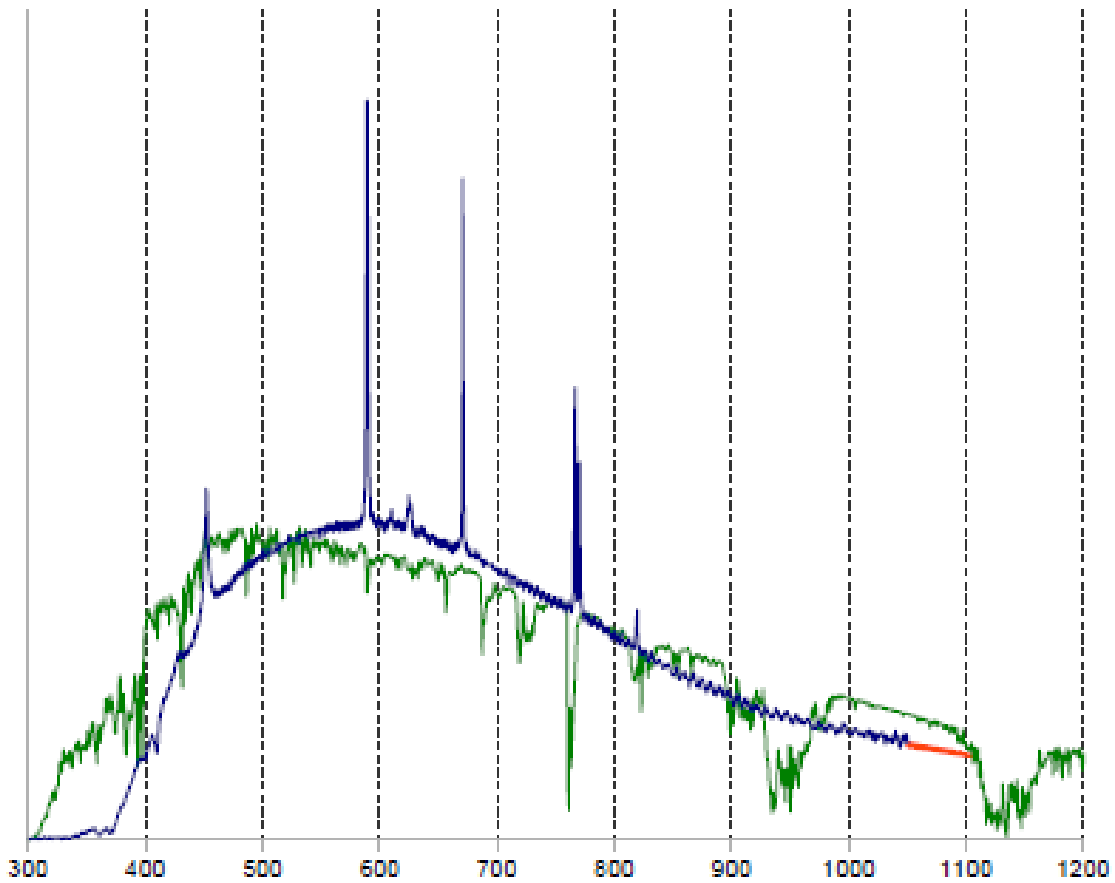
**Reference Cell Isc: 15.5 [mA]**

- This information is indicative, following the manufacturing batch, the parameters may change slightly.
- Reference Cell Isc measurement it's performed at 50cm with a reproducible setup. Use this value for compare the relative energetic performance between the bulbs.



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# Bulb Mix21 at 1300W

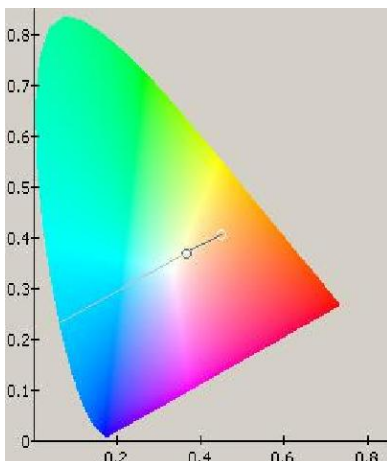


— Normalized measured spectrum — AM 1.5 Spectral Irradiance normalized (400-1100nm)  
 — Polynomial extrapolation

Wavelength range	AM1.5 ratio	Spectrum ratio	Mismatch	Class
400-500 nm	18.4	13.1	0.71	B
500-600 nm	19.91	20.8	1.05	A
600-700 nm	18.36	20.7	1.13	A
700-800 nm	14.92	17.1	1.14	A
800-900 nm	12.46	12.3	0.98	A
900-1100 nm	15.94	16.0	1.00	A

Class A	Class B	Class C
0.75	0.60	0.40
1.25	1.40	2.00

## Lighting characteristics



**Color temperature = 4411 K**

**Color Render Index = 95.5 [-]**

**Colors coordinate: x = 0.365 y = 0.370**

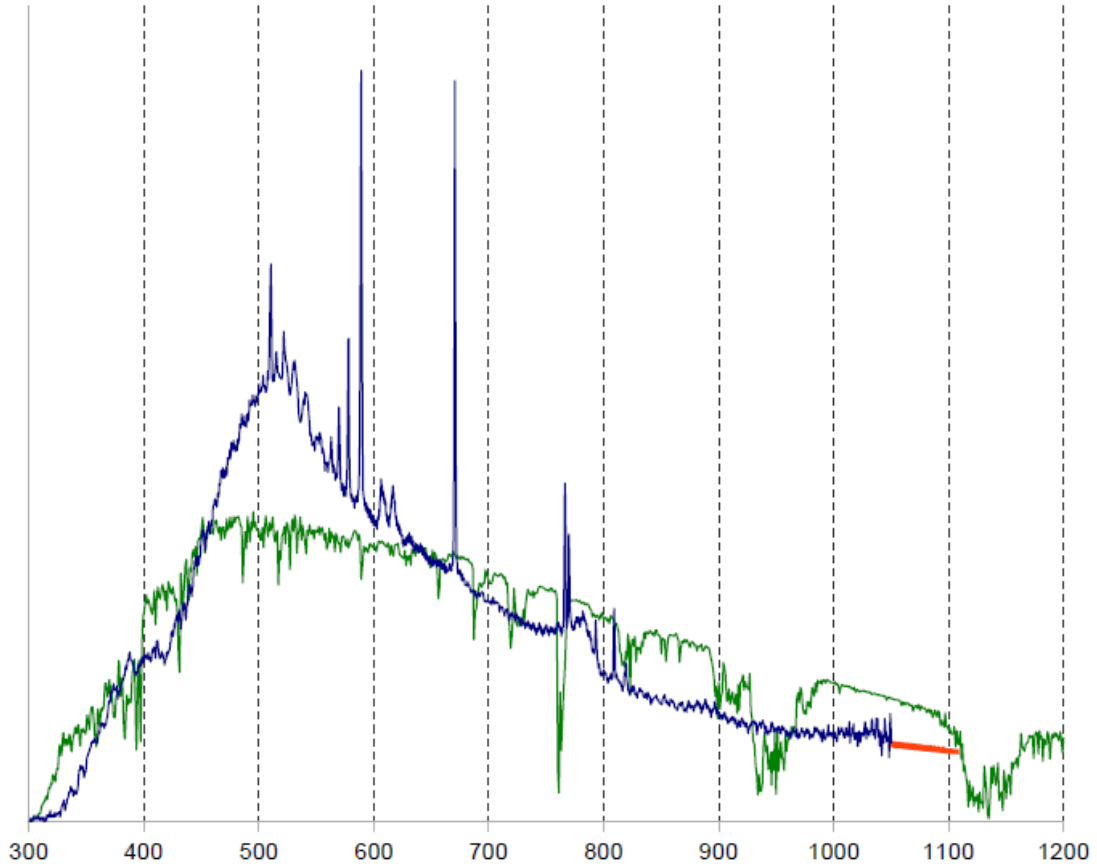
**Reference Cell Isc: 20.9 [mA]**

- This information is indicative, following the manufacturing batch, the parameters may change slightly.
- Reference Cell Isc measurement it's performed at 50cm with a reproducible setup. Use this value for compare the relative energetic performance between the bulbs.



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# Bulb Mix23 at 800W

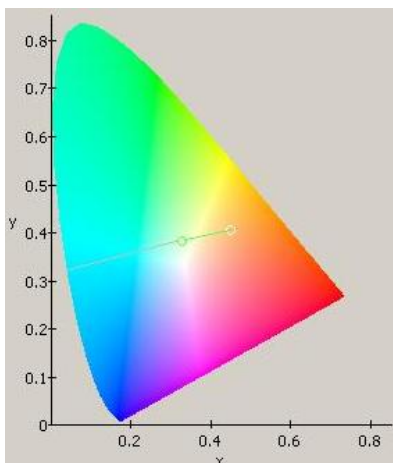


— Normalized measured spectrum — AM 1.5 Spectral irradiance normalized (400-1100nm)  
 — Polynomial extrapolation

Wavelength range	AM1.5 ratio	Spectrum ratio	Mismatch	Class
400-500 nm	18.4	17.2	0.94	A
500-600 nm	19.91	27.4	1.38	B
600-700 nm	18.36	19.1	1.04	A
700-800 nm	14.92	14.2	0.95	A
800-900 nm	12.46	9.1	0.73	B
900-1100 nm	15.94	12.9	0.81	A

Class A	Class B	Class C
0.75	0.60	0.40
1.25	1.40	2.00

## Lighting characteristics



Color temperature = 5650 K

Color Render Index = 89 [-]

Colors coordinate:  $x = 0.329$   $y = 0.383$

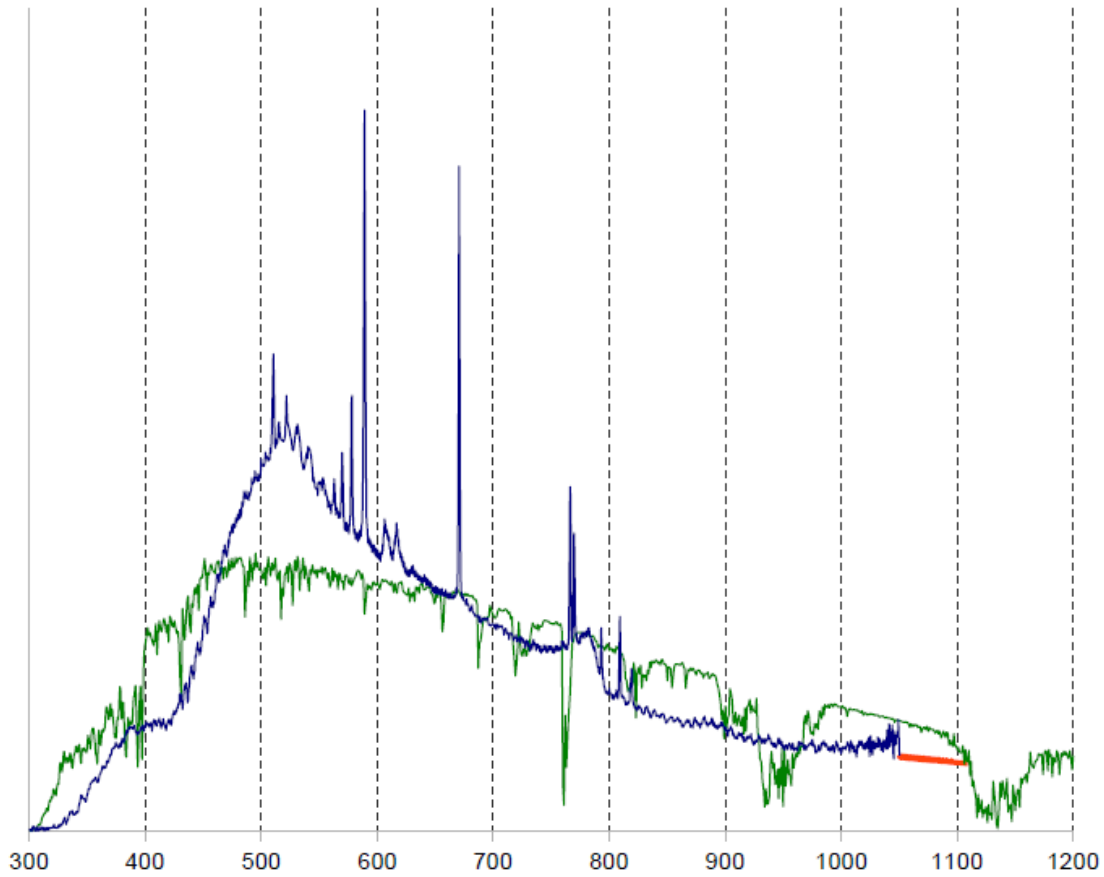
Reference Cell Isc: 5 [mA]

- This information is indicative, following the manufacturing batch, the parameters may change slightly.
- Reference Cell Isc measurement it's performed at 50cm with a reproducible setup. Use this value for compare the relative energetic performance between the bulbs.



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# Bulb Mix23 at 1000W

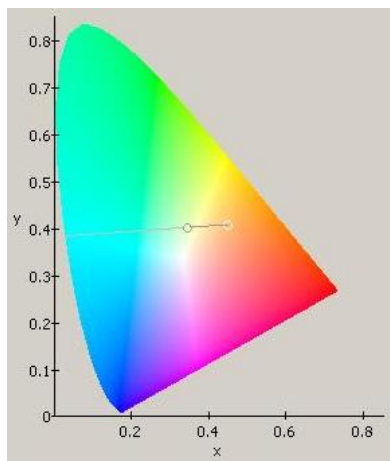


— Normalized measured spectrum — AM 1.5 Spectral irradiance normalized (400-1100nm)  
 — Polynomial extrapolation

Wavelength range	AM1.5 ratio	Spectrum ratio	Mismatch	Class
400-500 nm	18.4	14.3	0.78	A
500-600 nm	19.91	27.4	1.37	B
600-700 nm	18.36	19.7	1.08	A
700-800 nm	14.92	15.1	1.02	A
800-900 nm	12.46	9.6	0.77	A
900-1100 nm	15.94	13.8	0.87	A

Class A	Class B	Class C
0.75	0.60	0.40
1.25	1.40	2.00

### Lighting characteristics



**Color temperature = 5150 K**

**Color Render Index = 87 [-]**

**Colors coordinate: x = 0.344 y = 0.402**

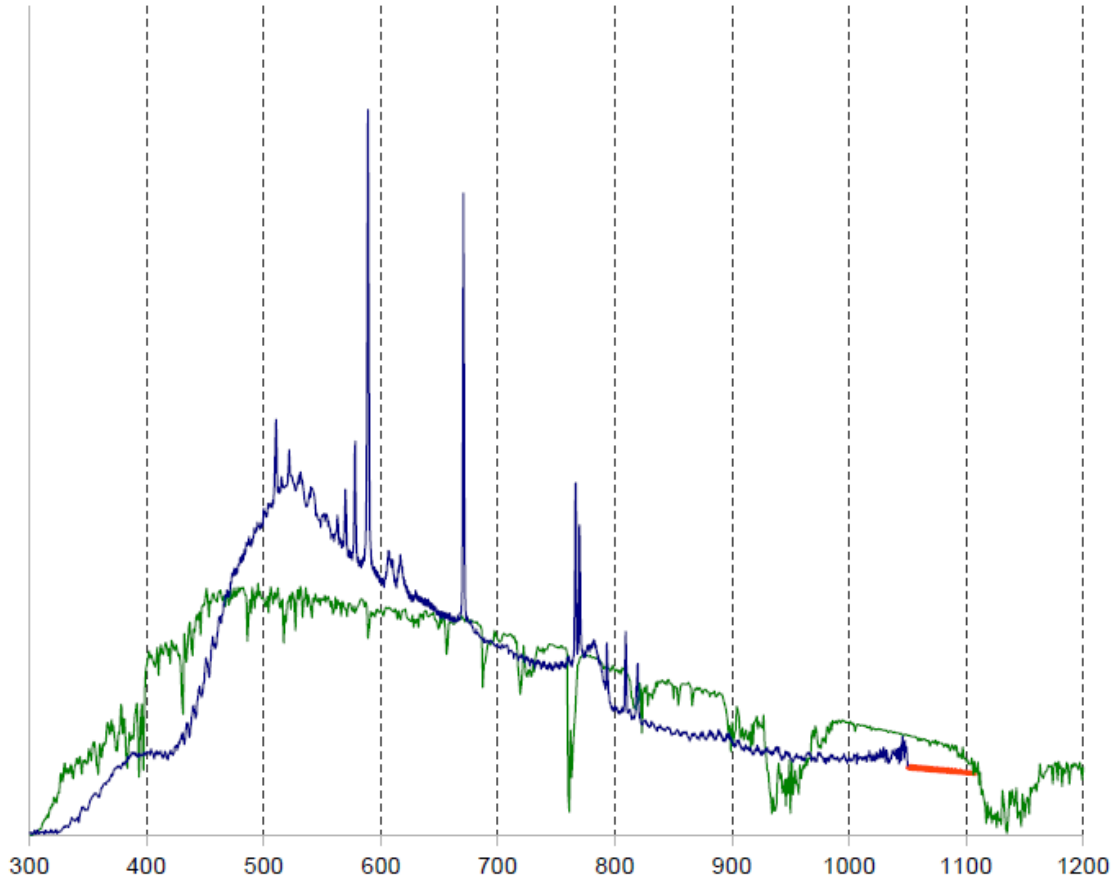
**Reference Cell Isc: 7.5 [mA]**

- This information is indicative, following the manufacturing batch, the parameters may change slightly.
- Reference Cell Isc measurement it's performed at 50cm with a reproducible setup. Use this value for compare the relative energetic performance between the bulbs.



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# Bulb Mix23 at 1300W

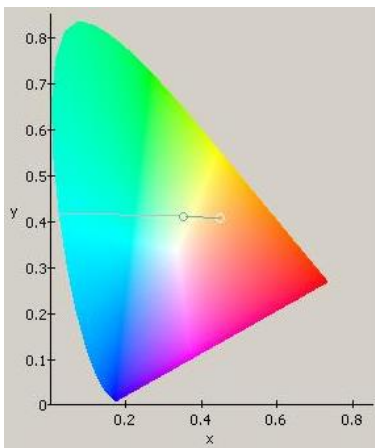


— Normalized measured spectrum — AM 1.5 Spectral irradiance normalized (400-1100nm)  
 — Polynomial extrapolation

Wavelentgh range	AM1.5 ratio	Spectrum ratio	Mismatch	Class
400-500 nm	18.4	13.0	0.71	B
500-600 nm	19.91	27.4	1.38	B
600-700 nm	18.36	20.1	1.09	A
700-800 nm	14.92	15.7	1.05	A
800-900 nm	12.46	9.8	0.79	A
900-1100 nm	15.94	14.0	0.88	A

Class A	Class B	Class C
0.75	0.60	0.40
1.25	1.40	2.00

### Lighting characteristics



Color temperature = 4950 K

Color Render Index = 85 [-]

Colors coordinate:  $x = 0.352$   $y = 0.410$

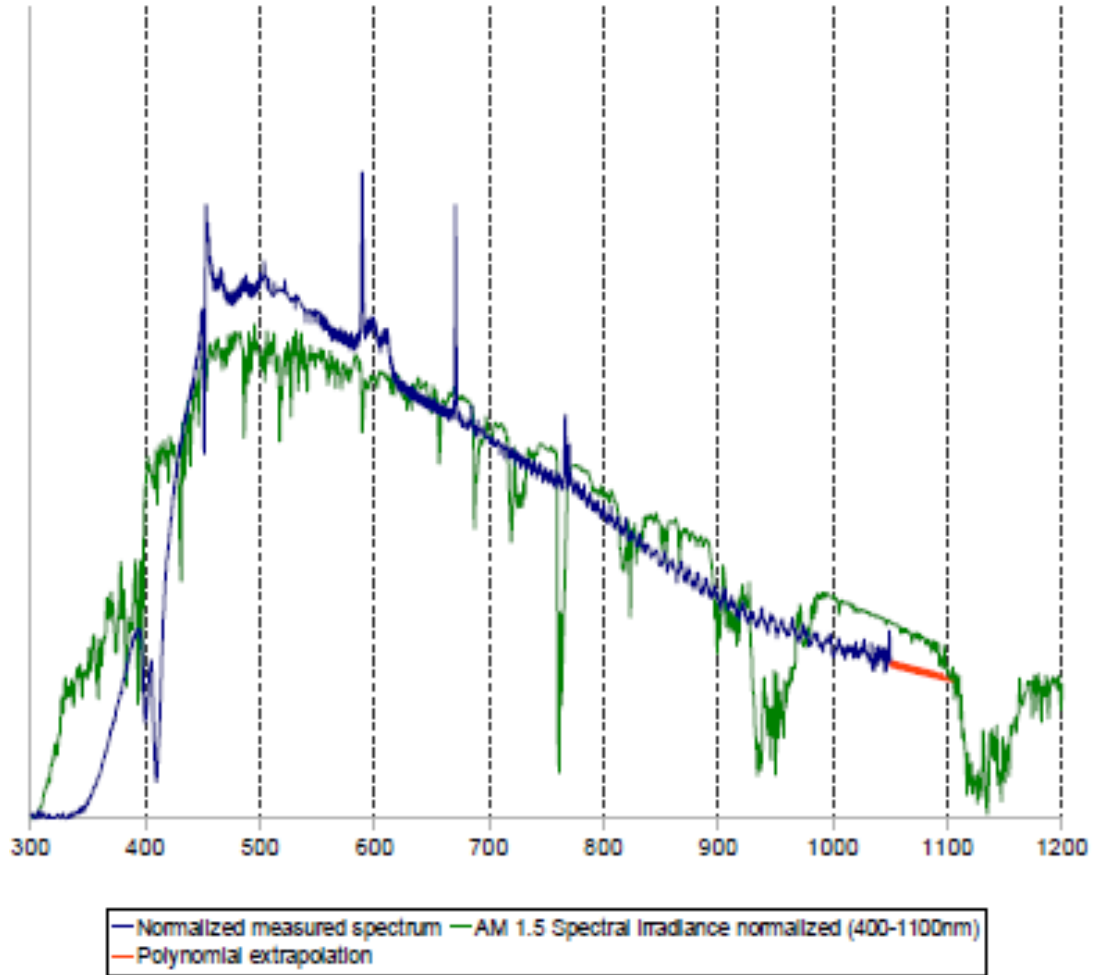
Reference Cell Isc: 12 [mA]

- This information is indicative, following the manufacturing batch, the parameters may change slightly.
- Reference Cell Isc measurement it's performed at 50cm with a reproducible setup. Use this value for compare the relative energetic performance between the bulbs.



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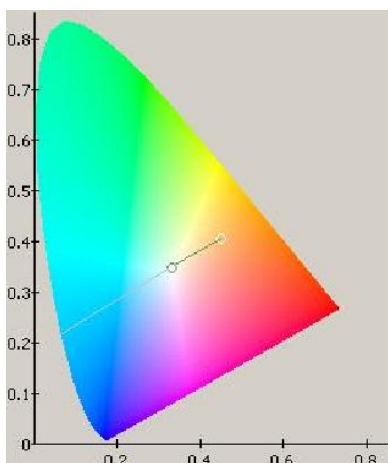
# Bulb Mix27 at 800W



Wavelength range	AM1.5 ratio	Spectrum ratio	Mismatch	Class
400-500 nm	18.4	16.1	0.88	A
500-600 nm	19.91	21.7	1.09	A
600-700 nm	18.36	18.5	1.01	A
700-800 nm	14.92	15.4	1.03	A
800-900 nm	12.46	11.9	0.95	A
900-1100 nm	15.94	16.3	1.02	A

Class A	Class B	Class C
0.75	0.60	0.40
1.25	1.40	2.00

## Lighting characteristics



**Color temperature = 5591 K**

**Color Render Index = 97.1 [-]**

**Colors coordinate: x = 0.330 y = 0.349**

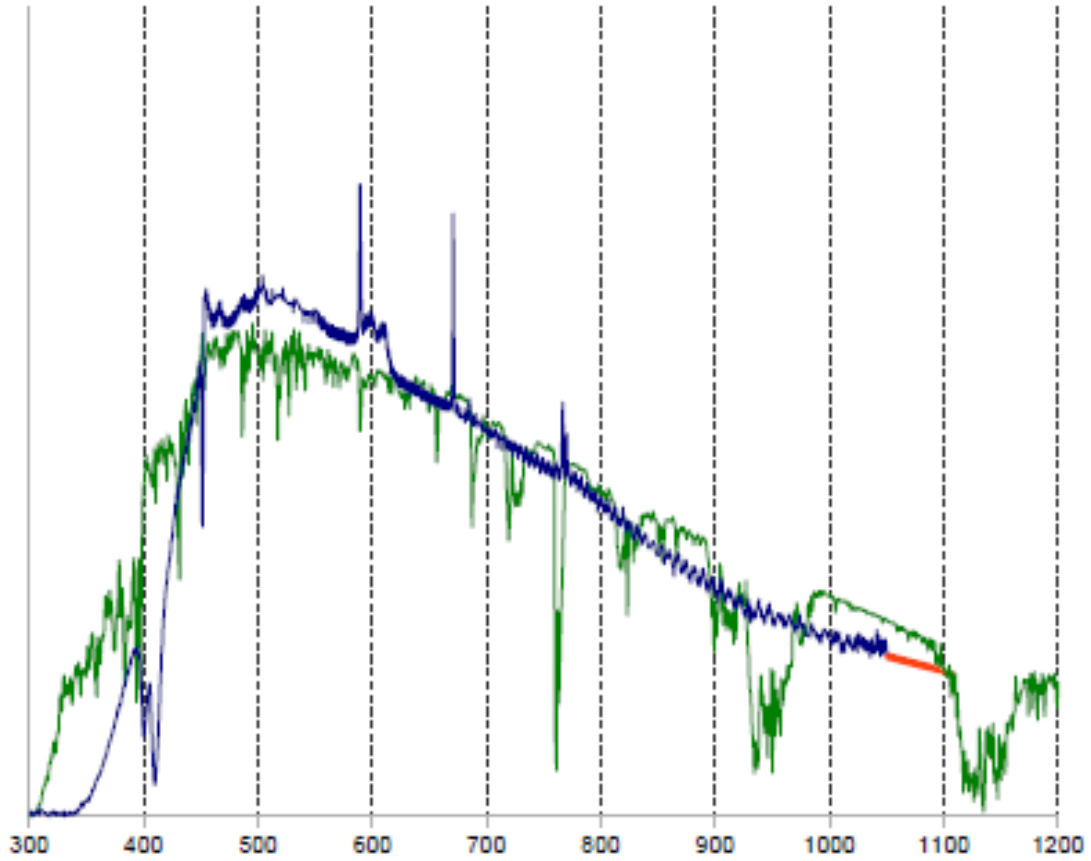
**Reference Cell Isc: 8.8 [mA]**

- This information is indicative, following the manufacturing batch, the parameters may change slightly.
- Reference Cell Isc measurement it's performed at 50cm with a reproducible setup. Use this value for compare the relative energetic performance between the bulbs.



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# Bulb Mix27 at 1000W

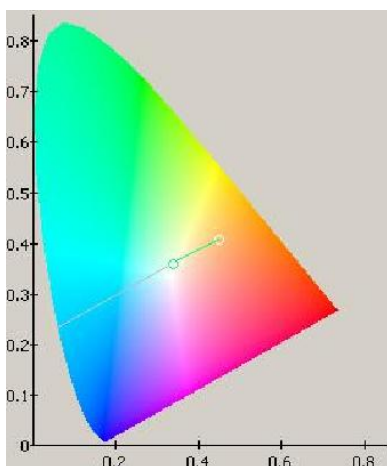


— Normalized measured spectrum — AM 1.5 Spectral Irradiance normalized (400-1100nm)  
 — Polynomial extrapolation

Wavelength range	AM1.5 ratio	Spectrum ratio	Mismatch	Class
400-500 nm	18.4	14.7	0.80	A
500-600 nm	19.91	21.6	1.08	A
600-700 nm	18.36	18.8	1.02	A
700-800 nm	14.92	15.8	1.06	A
800-900 nm	12.46	12.2	0.98	A
900-1100 nm	15.94	16.9	1.06	A

Class A	Class B	Class C
0.75	0.60	0.40
1.25	1.40	2.00

## Lighting characteristics



**Color temperature = 5305 K**

**Color Render Index = 96.4 [-]**

**Colors coordinate: x = 0.338 y = 0.358**

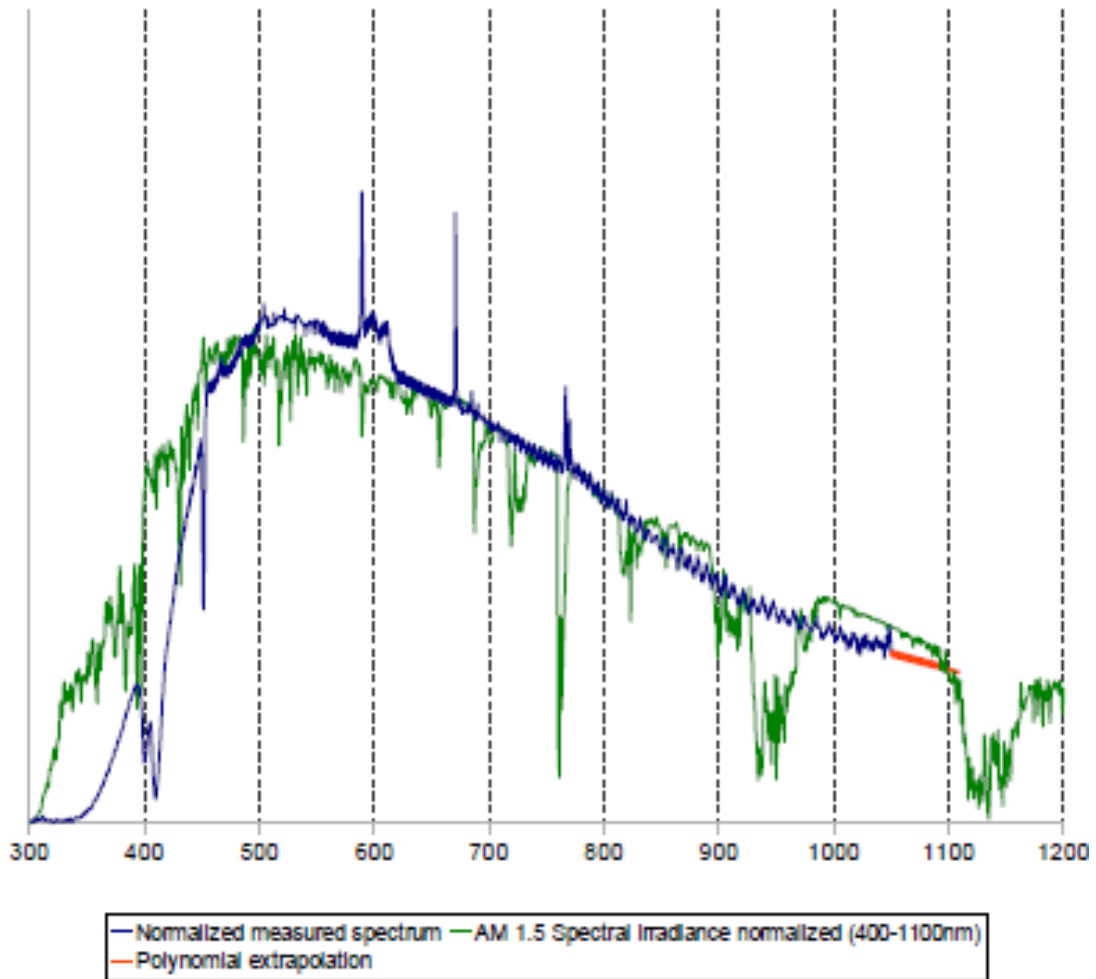
**Reference Cell Isc: 12.9 [mA]**

- This information is indicative, following the manufacturing batch, the parameters may change slightly.
- Reference Cell Isc measurement it's performed at 50cm with a reproducible setup. Use this value for compare the relative energetic performance between the bulbs.



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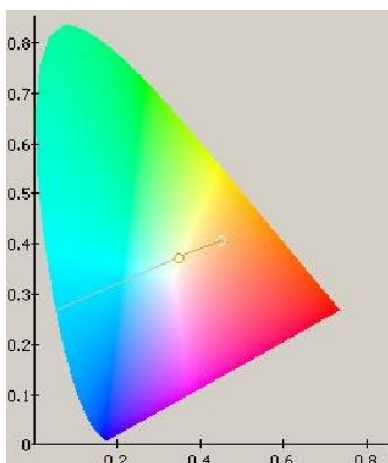
# Bulb Mix27 at 1300W



Wavelength range	AM1.5 ratio	Spectrum ratio	Mismatch	Class
400-500 nm	18.4	12.7	0.69	B
500-600 nm	19.91	21.2	1.06	A
600-700 nm	18.36	19.2	1.05	A
700-800 nm	14.92	16.4	1.10	A
800-900 nm	12.46	12.8	1.02	A
900-1100 nm	15.94	17.8	1.11	A

Class A	Class B	Class C
0.75	0.60	0.40
1.25	1.40	2.00

## Lighting characteristics



**Color temperature = 4911 K**

**Color Render Index = 94.0 [-]**

**Colors coordinate: x = 0.350 y = 0.373**

**Reference Cell Isc: 19.4 [mA]**

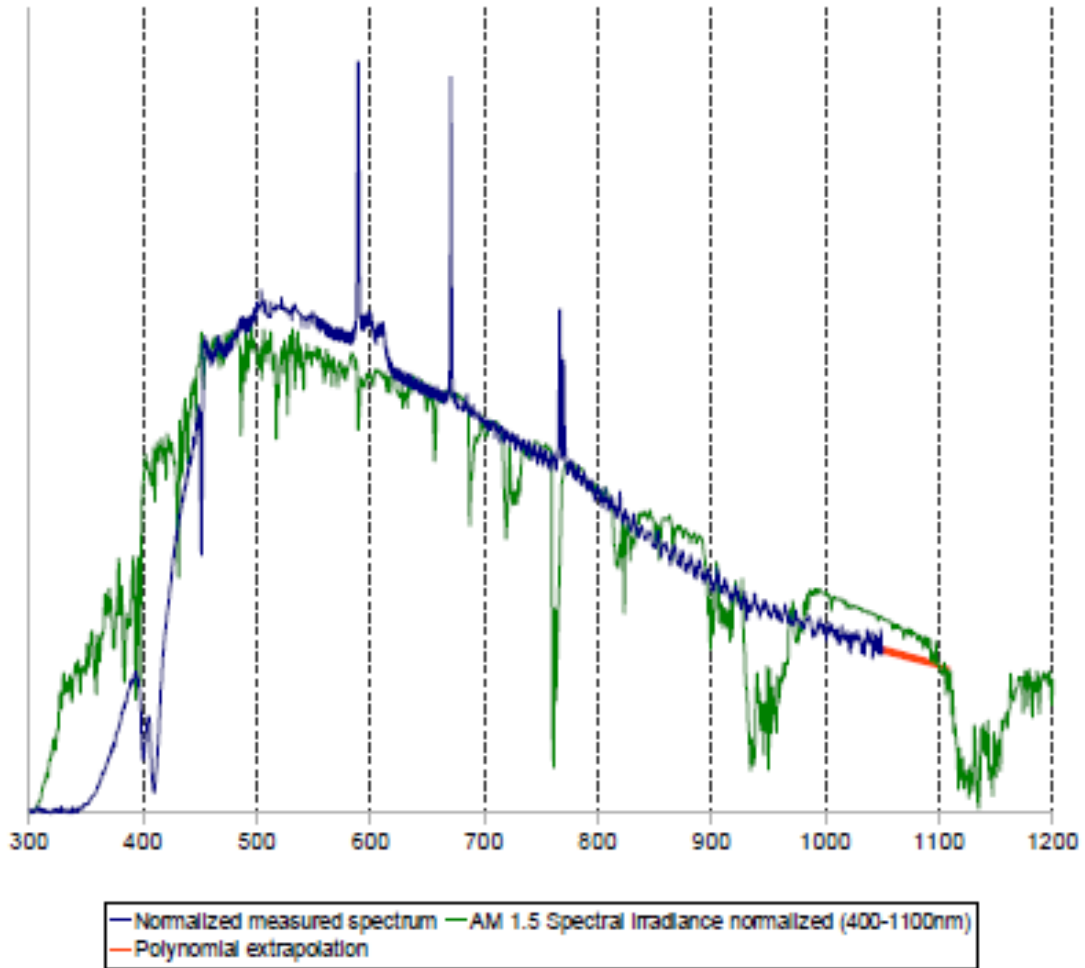
- This information is indicative, following the manufacturing batch, the parameters may change slightly.
- Reference Cell Isc measurement it's performed at 50cm with a reproducible setup. Use this value for compare the relative energetic performance between the bulbs.





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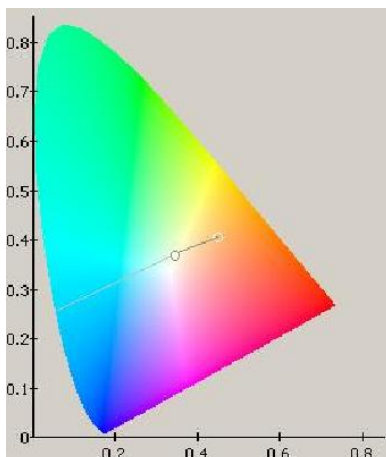
# Bulb Mix28 at 800W



Wavelength range	AM1.5 ratio	Spectrum ratio	Mismatch	Class
400-500 nm	18.4	13.3	0.72	B
500-600 nm	19.91	21.4	1.07	A
600-700 nm	18.36	19.1	1.04	A
700-800 nm	14.92	16.3	1.09	A
800-900 nm	12.46	12.6	1.01	A
900-1100 nm	15.94	17.3	1.09	A

Class A	Class B	Class C
0.75	0.60	0.40
1.25	1.40	2.00

## Lighting characteristics



**Color temperature = 5005 K**

**Color Render Index = 95.2 [-]**

**Colors coordinate: x = 0.347 y = 0.369**

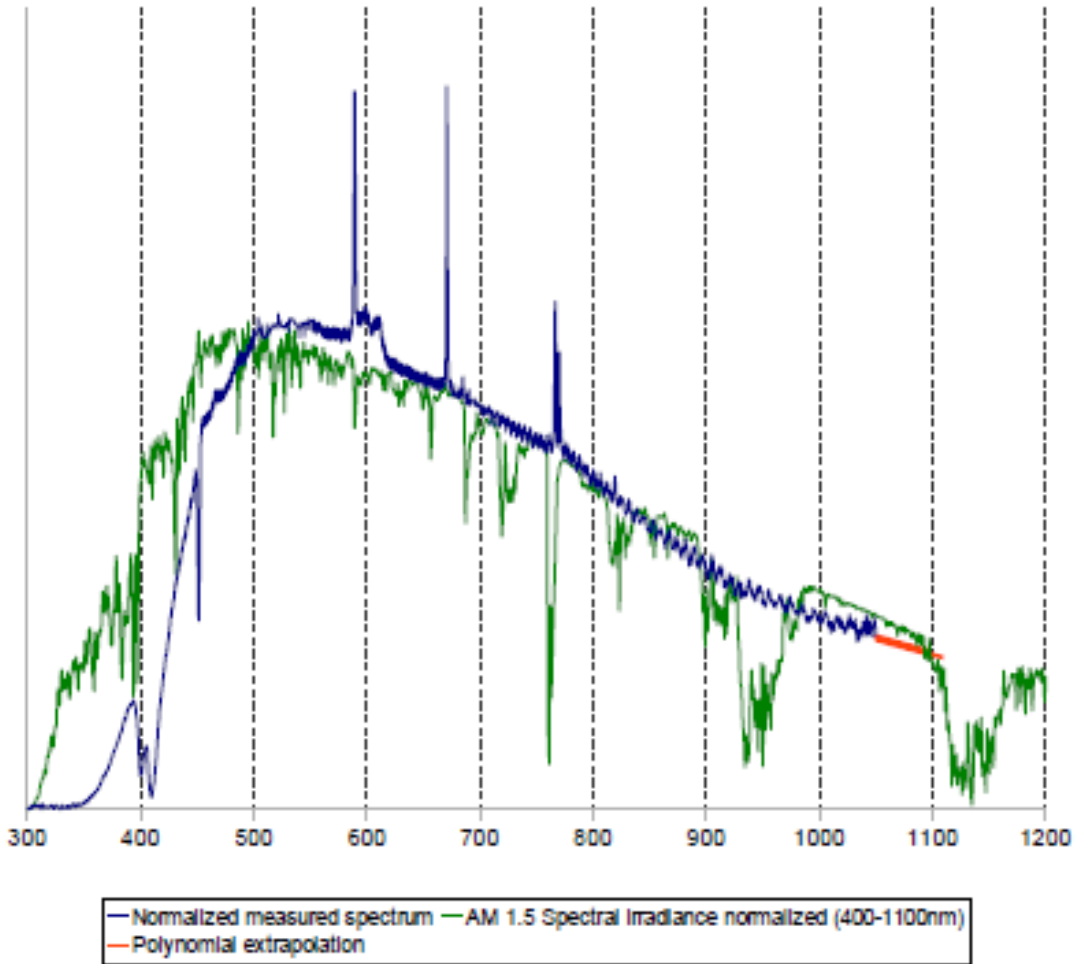
**Reference Cell Isc: 10.8 [mA]**

- This information is indicative, following the manufacturing batch, the parameters may change slightly.
- Reference Cell Isc measurement it's performed at 50cm with a reproducible setup. Use this value for compare the relative energetic performance between the bulbs.



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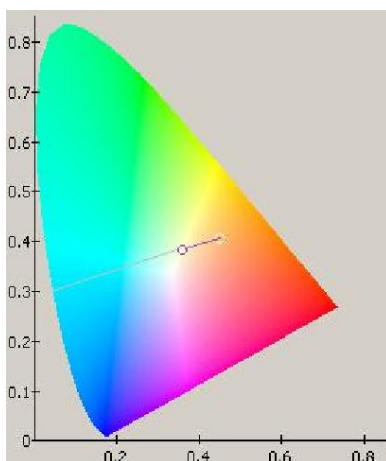
# Bulb Mix28 at 1000W



Wavelength range	AM1.5 ratio	Spectrum ratio	Mismatch	Class
400-500 nm	18.4	11.2	0.61	B
500-600 nm	19.91	20.9	1.05	A
600-700 nm	18.36	19.5	1.06	A
700-800 nm	14.92	16.9	1.13	A
800-900 nm	12.46	13.2	1.06	A
900-1100 nm	15.94	18.3	1.15	A

Class A	Class B	Class C
0.75	0.60	0.40
1.25	1.40	2.00

## Lighting characteristics



Color temperature = 4637 K

Color Render Index = 93.0 [-]

Colors coordinate:  $x = 0.360$   $y = 0.384$

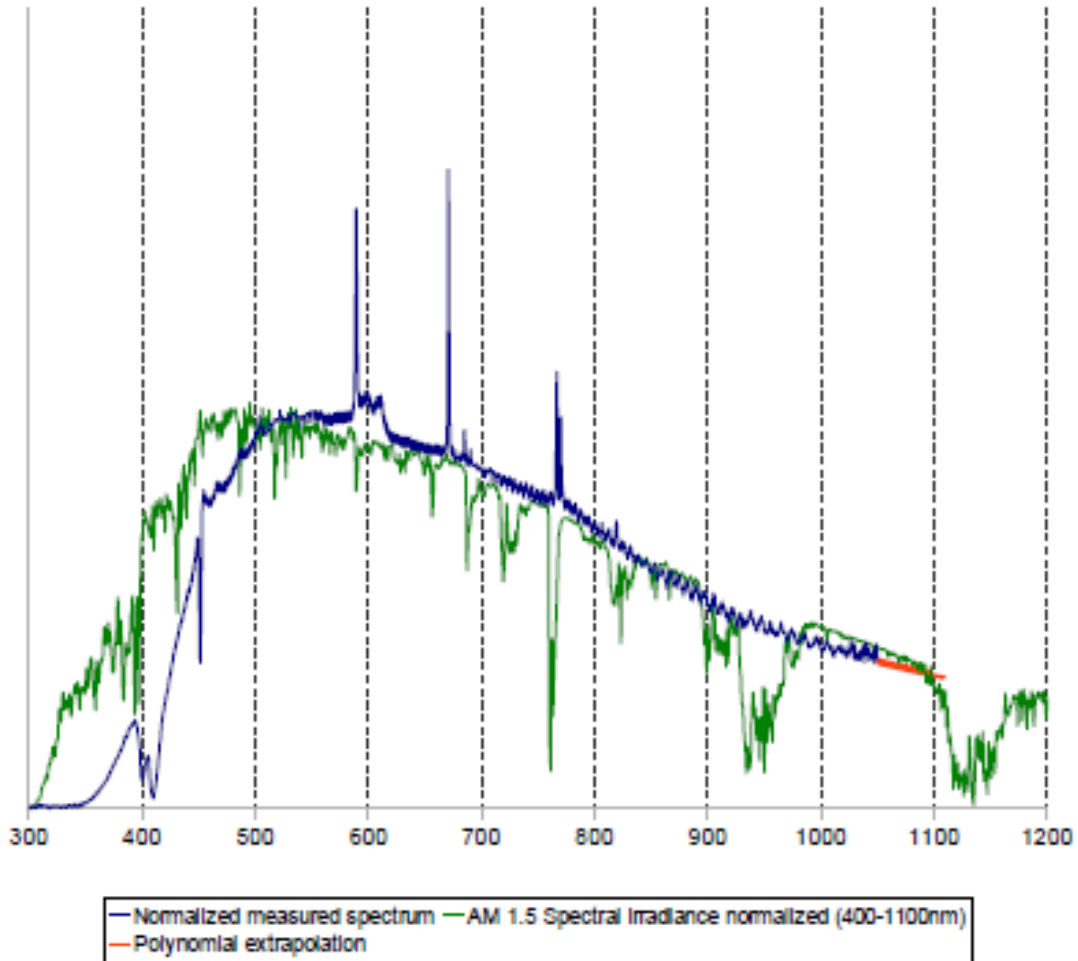
Reference Cell Isc: 15 [mA]

- This information is indicative, following the manufacturing batch, the parameters may change slightly.
- Reference Cell Isc measurement it's performed at 50cm with a reproducible setup. Use this value for compare the relative energetic performance between the bulbs.



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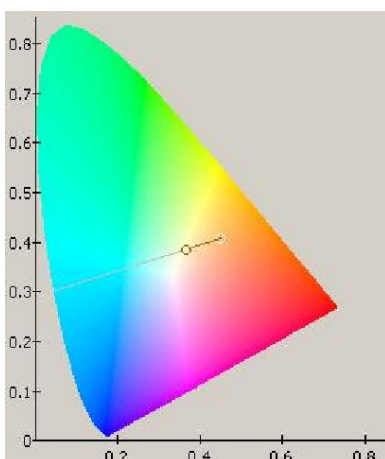
# Bulb Mix28 at 1300W



Wavelength range	AM1.5 ratio	Spectrum ratio	Mismatch	Class
400-500 nm	18.4	10.6	0.57	C
500-600 nm	19.91	20.3	1.02	A
600-700 nm	18.36	19.7	1.07	A
700-800 nm	14.92	17.2	1.15	A
800-900 nm	12.46	13.5	1.08	A
900-1100 nm	15.94	18.8	1.18	A

Class A	Class B	Class C
0.75	0.60	0.40
1.25	1.40	2.00

## Lighting characteristics



**Color temperature = 4484 K**

**Color Render Index = 93.4 [-]**

**Colors coordinate: x = 0.365 y = 0.385**

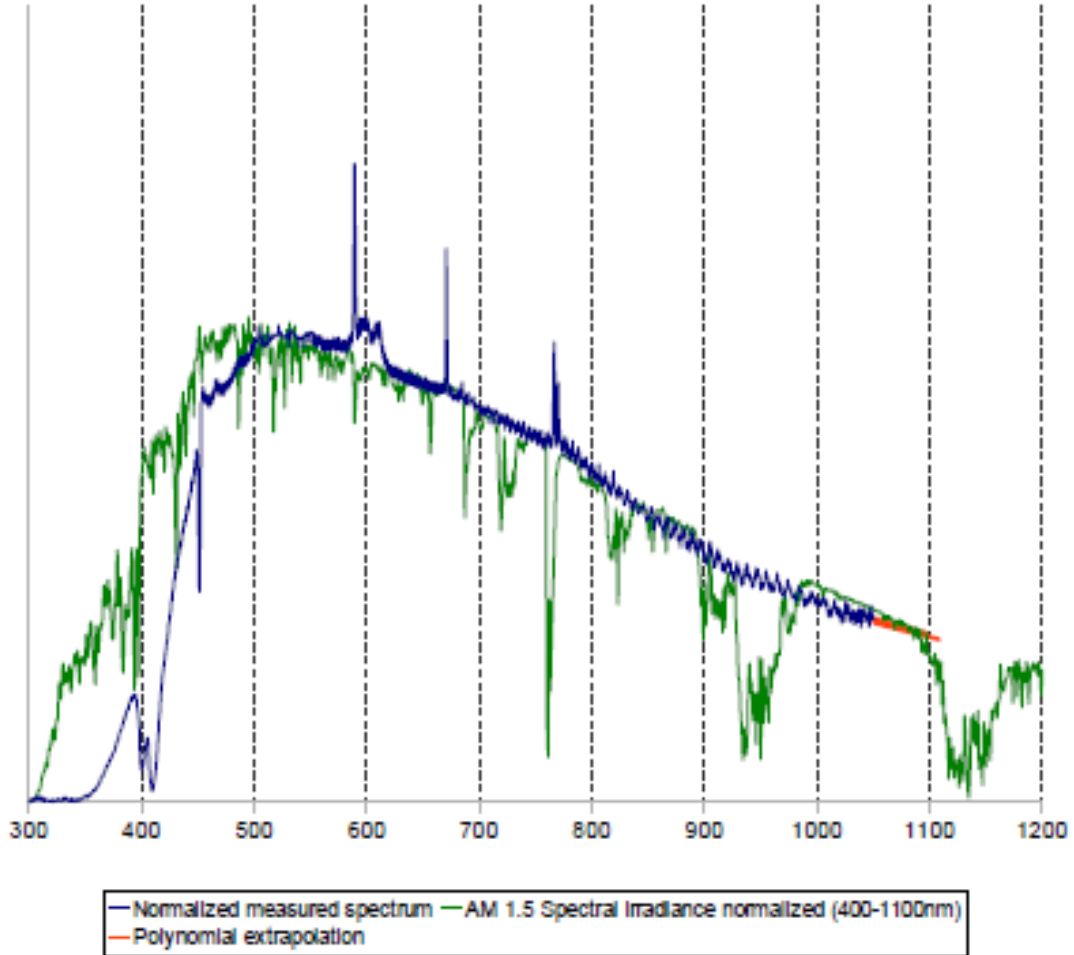
**Reference Cell Isc: 21 [mA]**

- This information is indicative, following the manufacturing batch, the parameters may change slightly.
- Reference Cell Isc measurement it's performed at 50cm with a reproducible setup. Use this value for compare the relative energetic performance between the bulbs.



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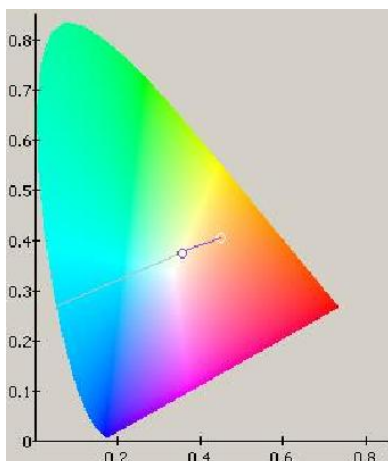
# Bulb Mix29 at 800W



Wavelength range	AM1.5 ratio	Spectrum ratio	Mismatch	Class
400-500 nm	18.4	11.5	0.62	B
500-600 nm	19.91	20.2	1.02	A
600-700 nm	18.36	19.0	1.03	A
700-800 nm	14.92	16.8	1.12	A
800-900 nm	12.46	13.4	1.08	A
900-1100 nm	15.94	19.2	1.20	A

Class A	Class B	Class C
0.75	0.60	0.40
1.25	1.40	2.00

## Lighting characteristics



**Color temperature = 4763 K**

**Color Render Index = 94.3 [-]**

**Colors coordinate: x = 0.355 y = 0.375**

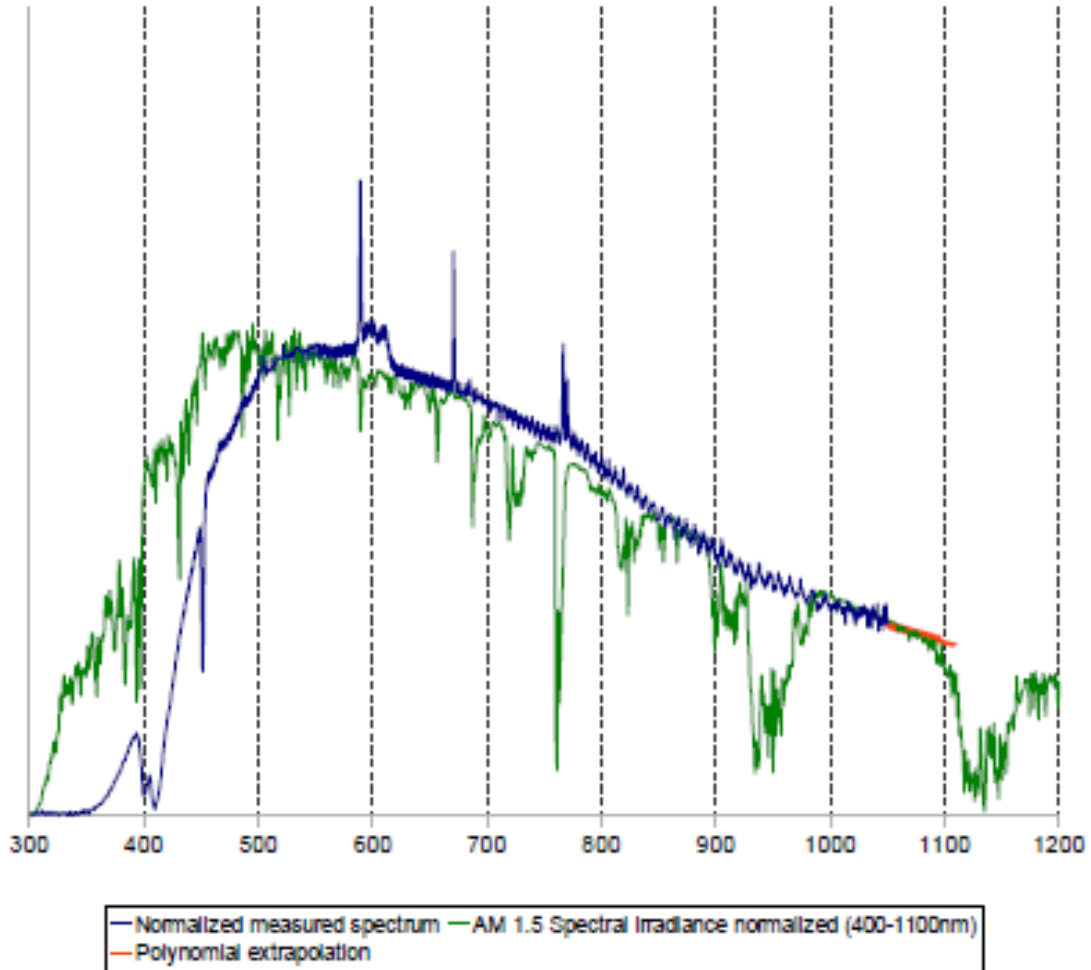
**Reference Cell Isc: 8.7 [mA]**

- This information is indicative, following the manufacturing batch, the parameters may change slightly.
- Reference Cell Isc measurement it's performed at 50cm with a reproducible setup. Use this value for compare the relative energetic performance between the bulbs.



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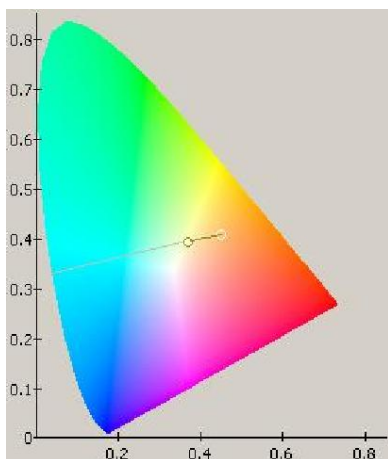
# Bulb Mix29 at 1000W



Wavelength range	AM1.5 ratio	Spectrum ratio	Mismatch	Class
400-500 nm	18.4	9.5	0.52	C
500-600 nm	19.91	19.8	1.00	A
600-700 nm	18.36	19.4	1.06	A
700-800 nm	14.92	17.3	1.16	A
800-900 nm	12.46	13.9	1.12	A
900-1100 nm	15.94	20.0	1.25	B

Class A	Class B	Class C
0.75	0.00	0.40
1.25	1.40	2.00

## Lighting characteristics



**Color temperature = 4404 K**

**Color Render Index = 92.9 [-]**

**Colors coordinate: x = 0.369 y = 0.393**

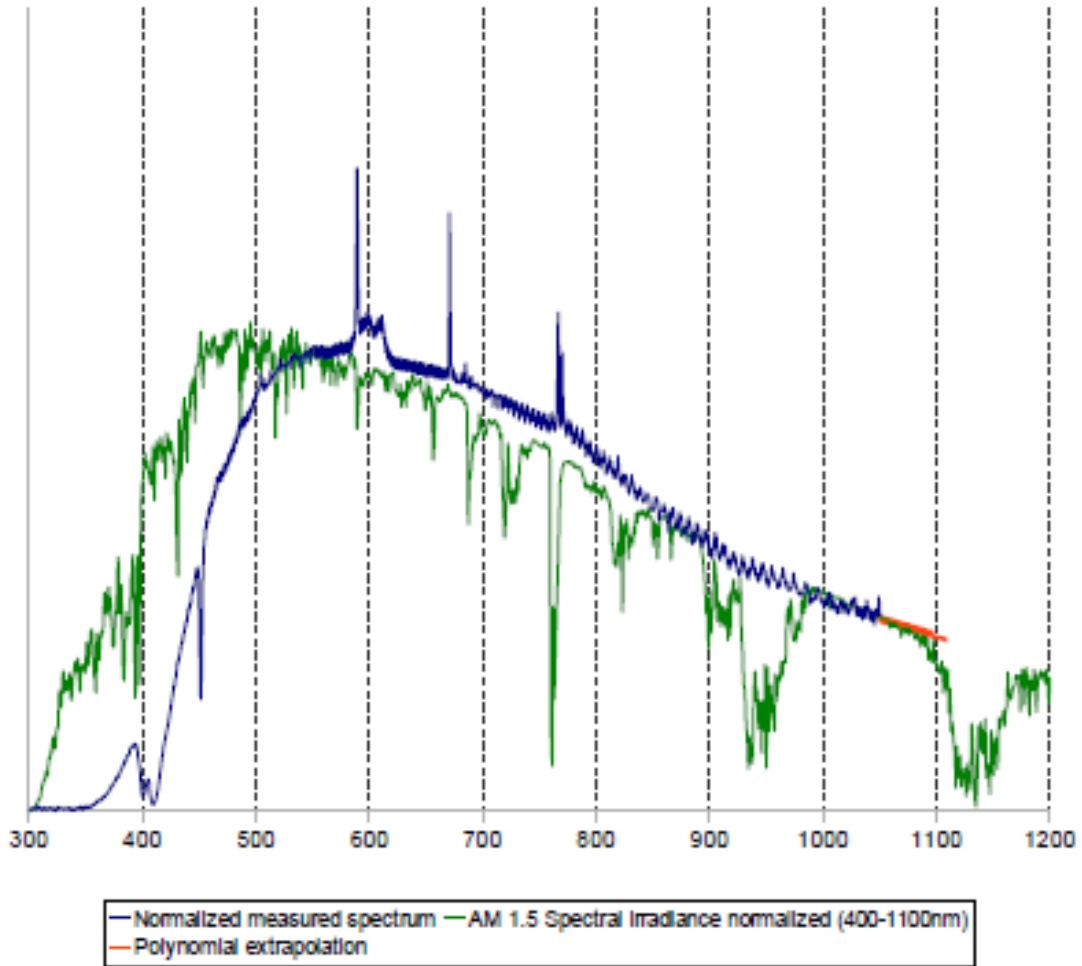
**Reference Cell Isc: 14 [mA]**

- This information is indicative, following the manufacturing batch, the parameters may change slightly.
- Reference Cell Isc measurement it's performed at 50cm with a reproducible setup. Use this value for compare the relative energetic performance between the bulbs.



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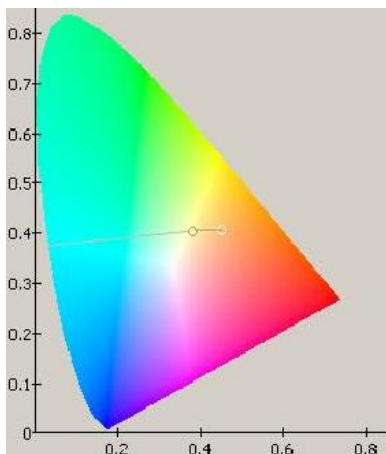
# Bulb Mix29 at 1300W



Wavelength range	AM1.5 ratio	Spectrum ratio	Mismatch	Class
400-500 nm	18.4	8.4	0.46	C
500-600 nm	19.91	19.5	0.98	A
600-700 nm	18.36	19.8	1.08	A
700-800 nm	14.92	17.8	1.19	A
800-900 nm	12.46	14.2	1.14	A
900-1100 nm	15.94	20.2	1.27	B

Class A	Class B	Class C
0.75	0.60	0.40
1.25	1.40	2.00

## Lighting characteristics



**Color temperature = 4188 K**

**Color Render Index = 92.1 [-]**

**Colors coordinate: x = 0.380 y = 0.402**

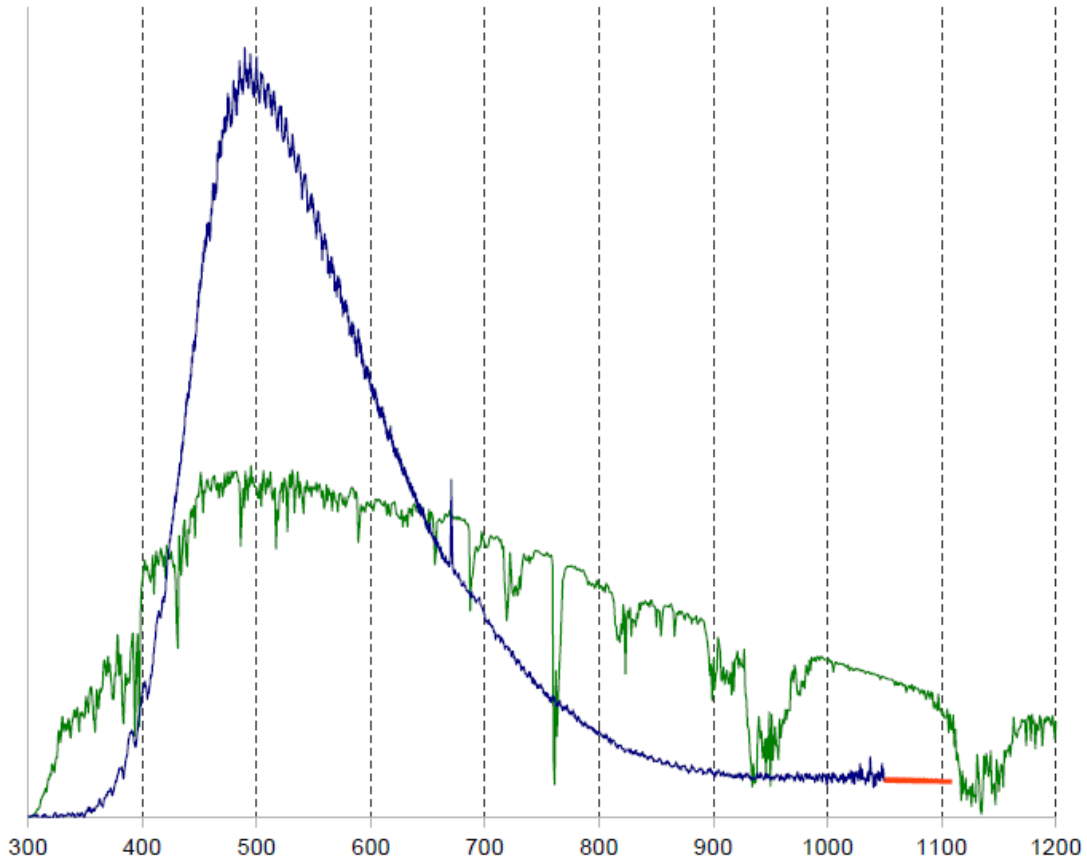
**Reference Cell Isc: 20.5 [mA]**

- This information is indicative, following the manufacturing batch, the parameters may change slightly.
- Reference Cell Isc measurement it's performed at 50cm with a reproducible setup. Use this value for compare the relative energetic performance between the bulbs.



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# Bulb Mix32 at 800W

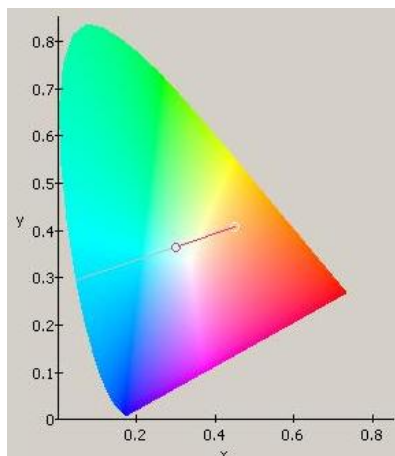


— Normalized measured spectrum — AM 1.5 Spectral irradiance normalized (400-1100nm)  
 — Polynomial extrapolation

Wavelength range	AM1.5 ratio	Spectrum ratio	Mismatch	Class
400-500 nm	18.4	25.6	1.39	B
500-600 nm	19.91	37.2	1.87	C
600-700 nm	18.36	19.4	1.06	A
700-800 nm	14.92	8.8	0.59	C
800-900 nm	12.46	3.9	0.31	-
900-1100 nm	15.94	5.2	0.32	-

Class A	Class B	Class C
0.75	0.60	0.40
1.25	1.40	2.00

## Lighting characteristics



Color temperature = 6900 K

Color Render Index = 82.5 [-]

Colors coordinate:  $x = 0.299$   $y = 0.366$

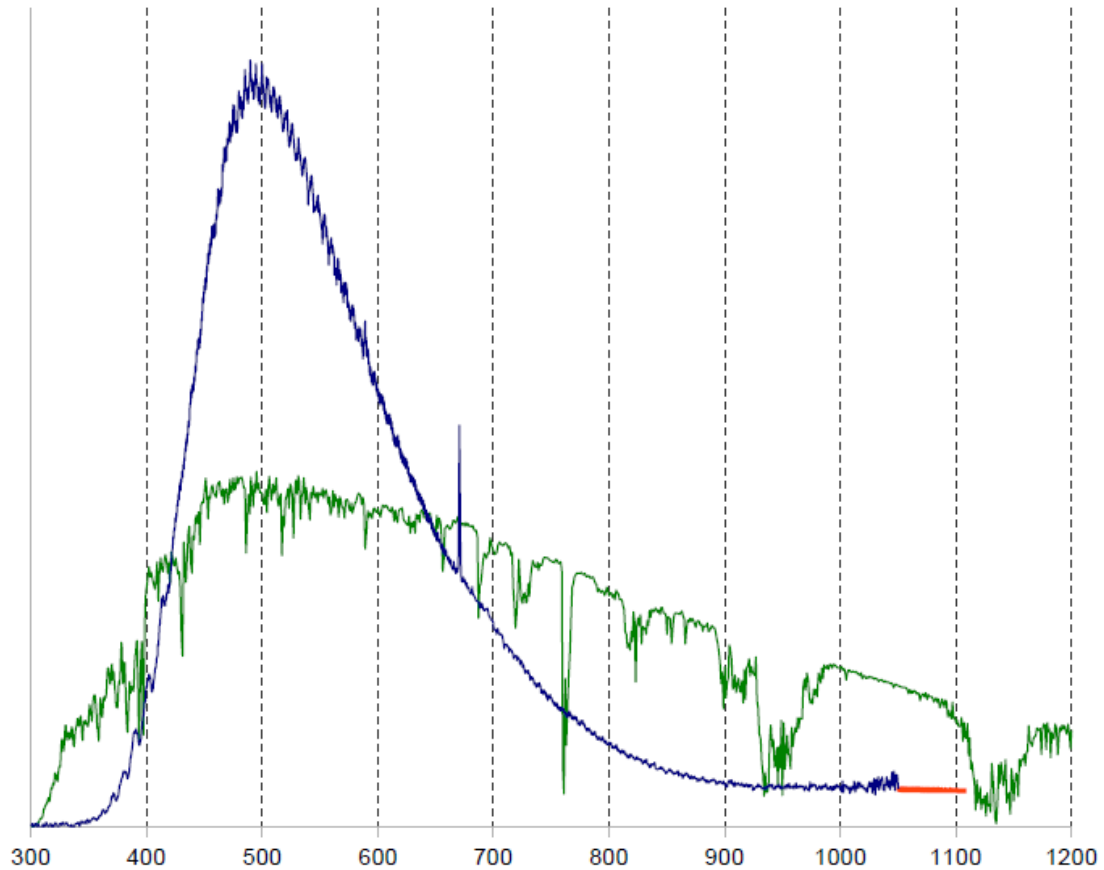
Reference Cell Isc: 6.5 [mA]

- This information is indicative, following the manufacturing batch, the parameters may change slightly.
- Reference Cell Isc measurement it's performed at 50cm with a reproducible setup. Use this value for compare the relative energetic performance between the bulbs.



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# Bulb Mix32 at 1000W

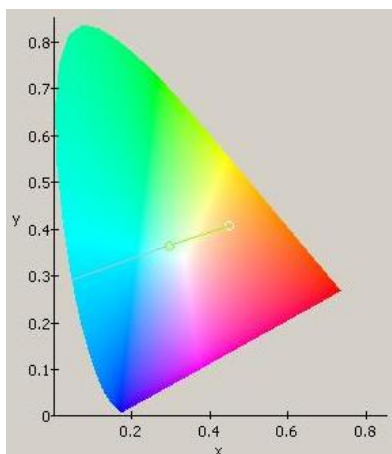


— Normalized measured spectrum — AM 1.5 Spectral irradiance normalized (400-1100nm)  
 — Polynomial extrapolation

Wavelentgh range	AM1.5 ratio	Spectrum ratio	Mismatch	Class
400-500 nm	18.4	26.0	1.41	C
500-600 nm	19.91	37.1	1.86	C
600-700 nm	18.36	19.3	1.05	A
700-800 nm	14.92	8.7	0.58	C
800-900 nm	12.46	3.8	0.31	-
900-1100 nm	15.94	5.1	0.32	-

Class A	Class B	Class C
0.75	0.60	0.40
1.25	1.40	2.00

## Lighting characteristics



Color temperature = 6950 K

Color Render Index = 83 [-]

Colors coordinate:  $x = 0.298$   $y = 0.364$

Reference Cell Isc: 9 [mA]

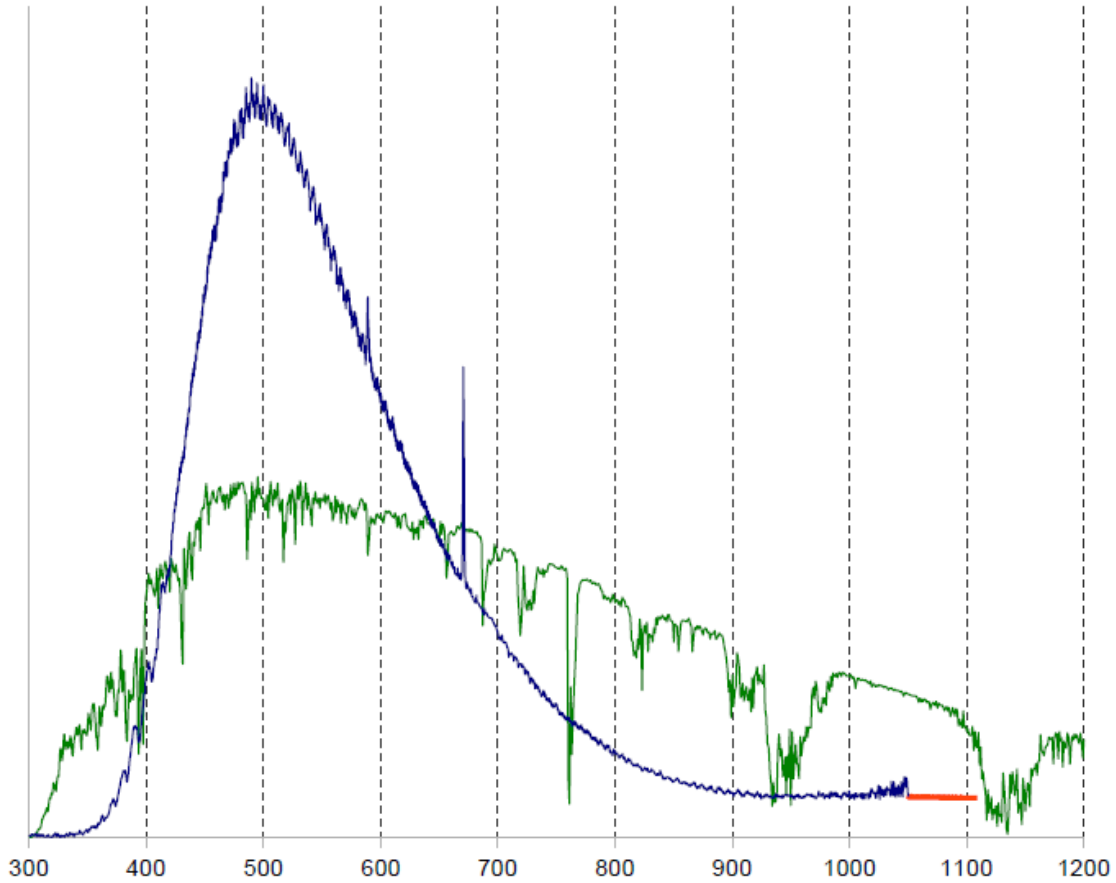
- This information is indicative, following the manufacturing batch, the parameters may change slightly.
- Reference Cell Isc measurement it's performed at 50cm with a reproducible setup. Use this value for compare the relative energetic performance between the bulbs.





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# Bulb Mix32 at 1300W

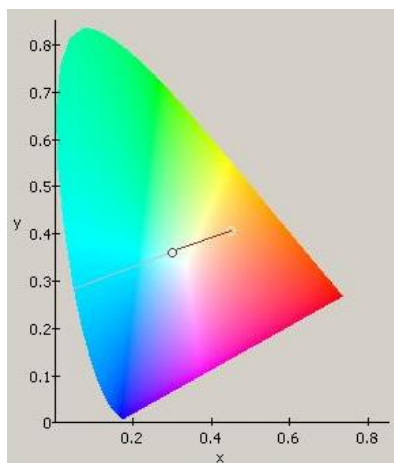


— Normalized measured spectrum — AM 1.5 Spectral irradiance normalized (400-1100nm)  
 — Polynomial extrapolation

Wavelength range	AM1.5 ratio	Spectrum ratio	Mismatch	Class
400-500 nm	18.4	26.3	1.43	C
500-600 nm	19.91	36.5	1.83	C
600-700 nm	18.36	19.3	1.05	A
700-800 nm	14.92	8.7	0.58	C
800-900 nm	12.46	3.8	0.31	-
900-1100 nm	15.94	5.3	0.33	-

Class A	Class B	Class C
0.75	0.60	0.40
1.25	1.40	2.00

## Lighting characteristics



Color temperature = 6950 K

Color Render Index = 84 [-]

Colors coordinate:  $x = 0.299$   $y = 0.361$

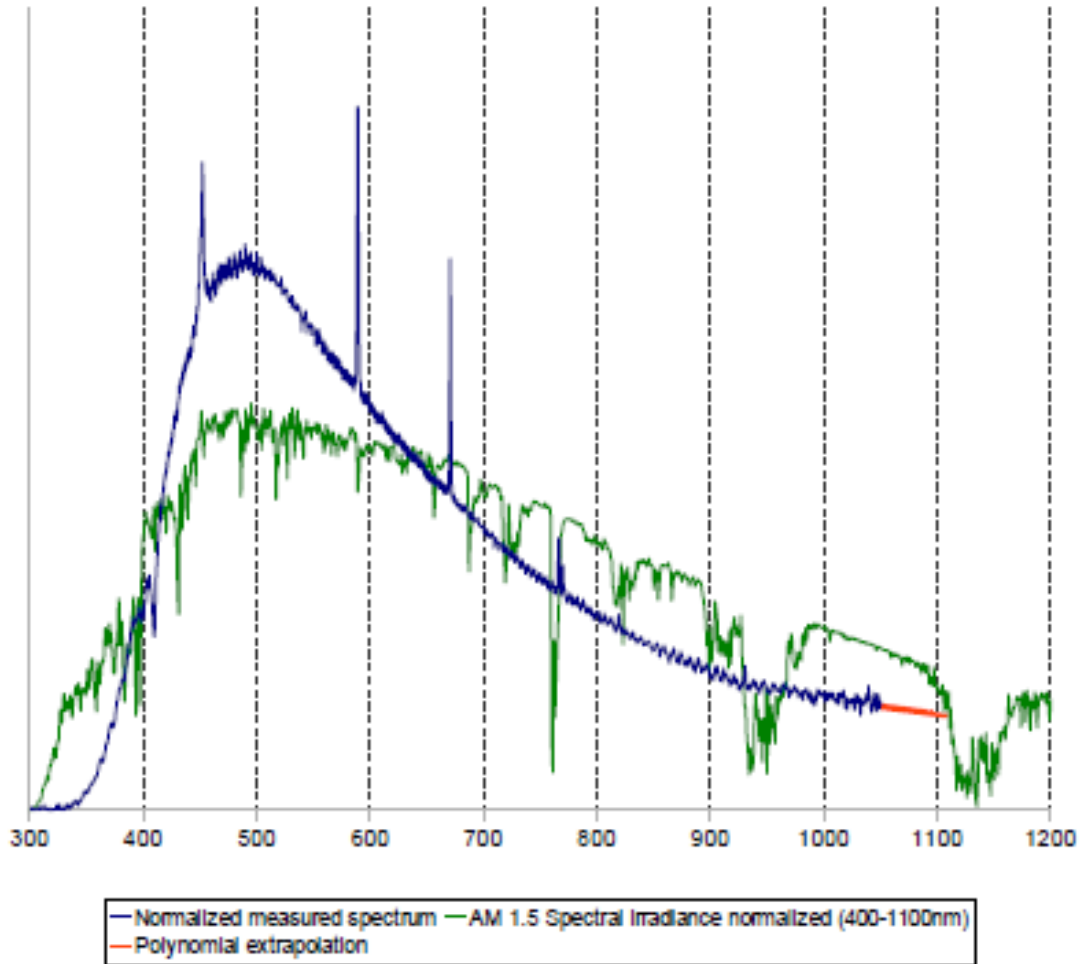
Reference Cell Isc: 12 [mA]

- This information is indicative, following the manufacturing batch, the parameters may change slightly.
- Reference Cell Isc measurement it's performed at 50cm with a reproducible setup. Use this value for compare the relative energetic performance between the bulbs.



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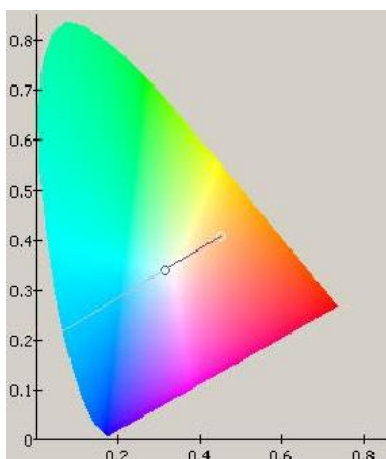
# Bulb Mix33 at 800W



Wavelength range	AM1.5 ratio	Spectrum ratio	Mismatch	Class
400-500 nm	18.4	21.5	1.17	A
500-600 nm	19.91	25.4	1.28	B
600-700 nm	18.36	18.3	1.00	A
700-800 nm	14.92	12.9	0.86	A
800-900 nm	12.46	9.1	0.73	B
900-1100 nm	15.94	12.8	0.80	A

Class A	Class B	Class C
0.75	0.60	0.40
1.25	1.40	2.00

## Lighting characteristics



**Color temperature = 6427 K**

**Color Render Index = 95.0 [-]**

**Colors coordinate: x = 0.313 y = 0.341**

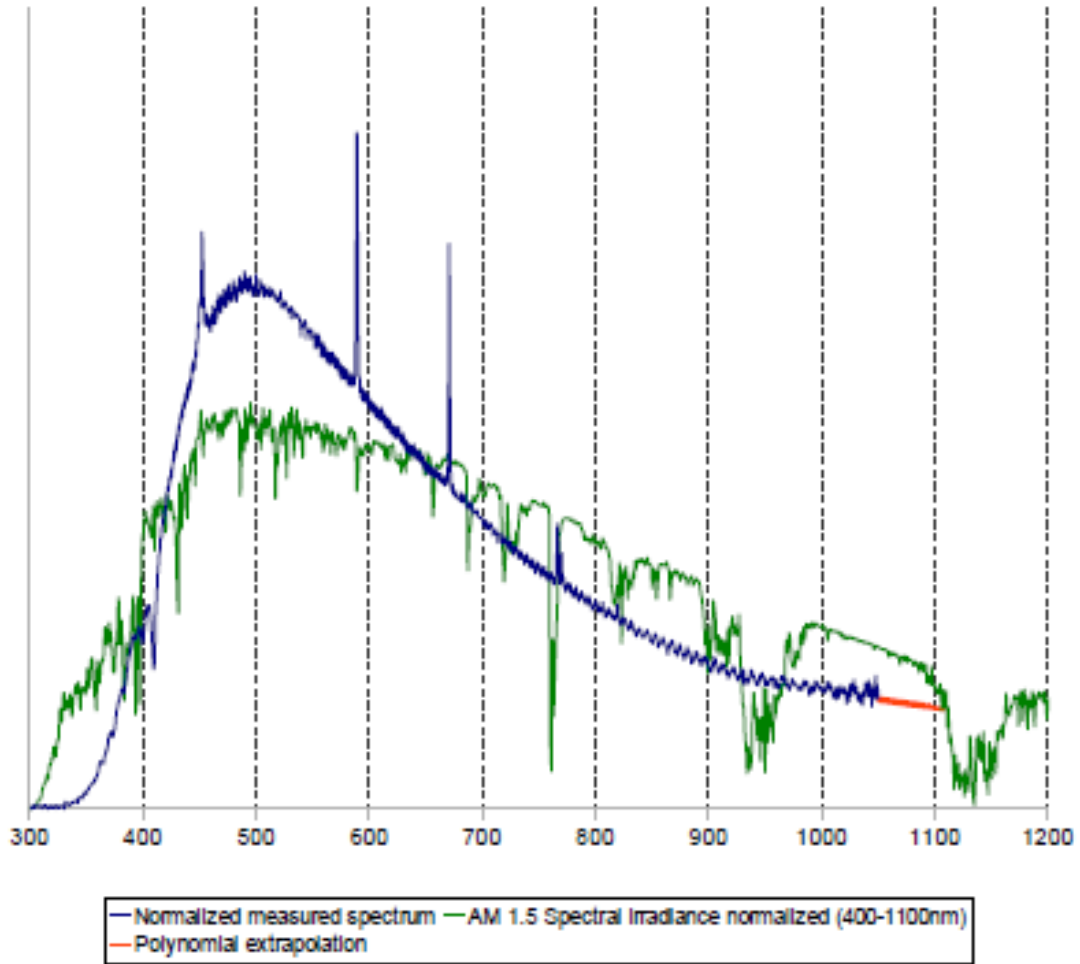
**Reference Cell Isc: 11.3 [mA]**

- This information is indicative, following the manufacturing batch, the parameters may change slightly.
- Reference Cell Isc measurement it's performed at 50cm with a reproducible setup. Use this value for compare the relative energetic performance between the bulbs.



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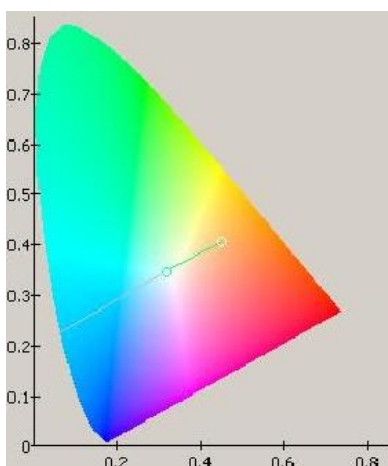
# Bulb Mix33 at 1000W



Wavelength range	AM1.5 ratio	Spectrum ratio	Mismatch	Class
400-500 nm	18.4	19.9	1.08	A
500-600 nm	19.91	25.0	1.26	B
600-700 nm	18.36	18.7	1.02	A
700-800 nm	14.92	13.3	0.89	A
800-900 nm	12.46	9.5	0.76	A
900-1100 nm	15.94	13.5	0.85	A

Class A	Class B	Class C
0.75	0.60	0.40
1.25	1.40	2.00

## Lighting characteristics



Color temperature = 6121 K

Color Render Index = 94.9 [-]

Colors coordinate:  $x = 0.318$   $y = 0.347$

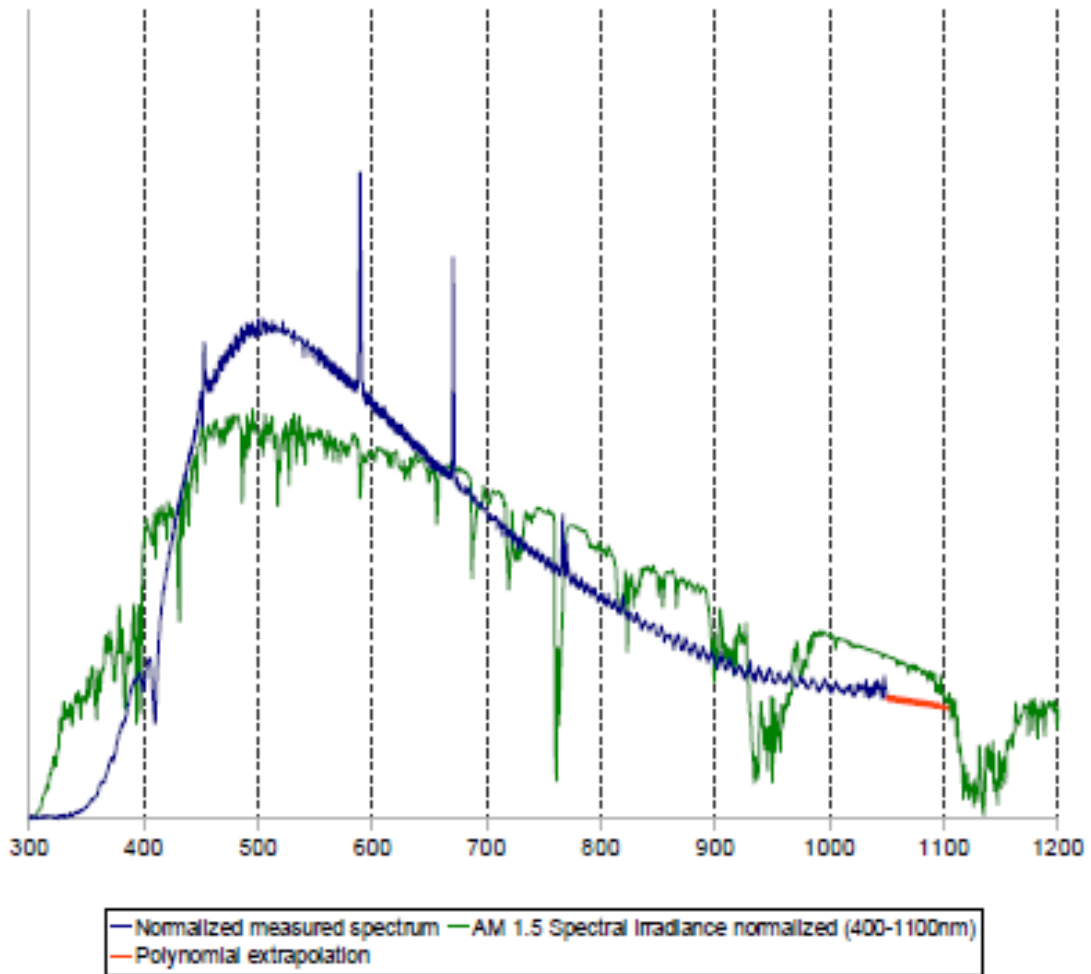
Reference Cell Isc: 15 [mA]

- This information is indicative, following the manufacturing batch, the parameters may change slightly.
- Reference Cell Isc measurement it's performed at 50cm with a reproducible setup. Use this value for compare the relative energetic performance between the bulbs.



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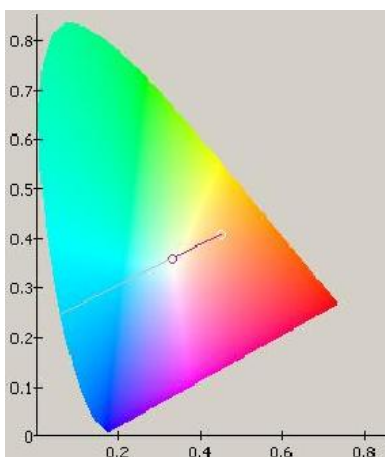
# Bulb Mix33 at 1300W



Wavelength range	AM1.5 ratio	Spectrum ratio	Mismatch	Class
400-500 nm	18.4	17.2	0.93	A
500-600 nm	19.91	24.2	1.22	A
600-700 nm	18.36	19.3	1.05	A
700-800 nm	14.92	14.2	0.95	A
800-900 nm	12.46	10.3	0.83	A
900-1100 nm	15.94	14.8	0.93	A

Class A	Class B	Class C
0.75	0.00	0.40
1.25	1.40	2.00

## Lighting characteristics



**Color temperature = 5566 K**

**Color Render Index = 94.5 [-]**

**Colors coordinate: x = 0.331 y = 0.359**

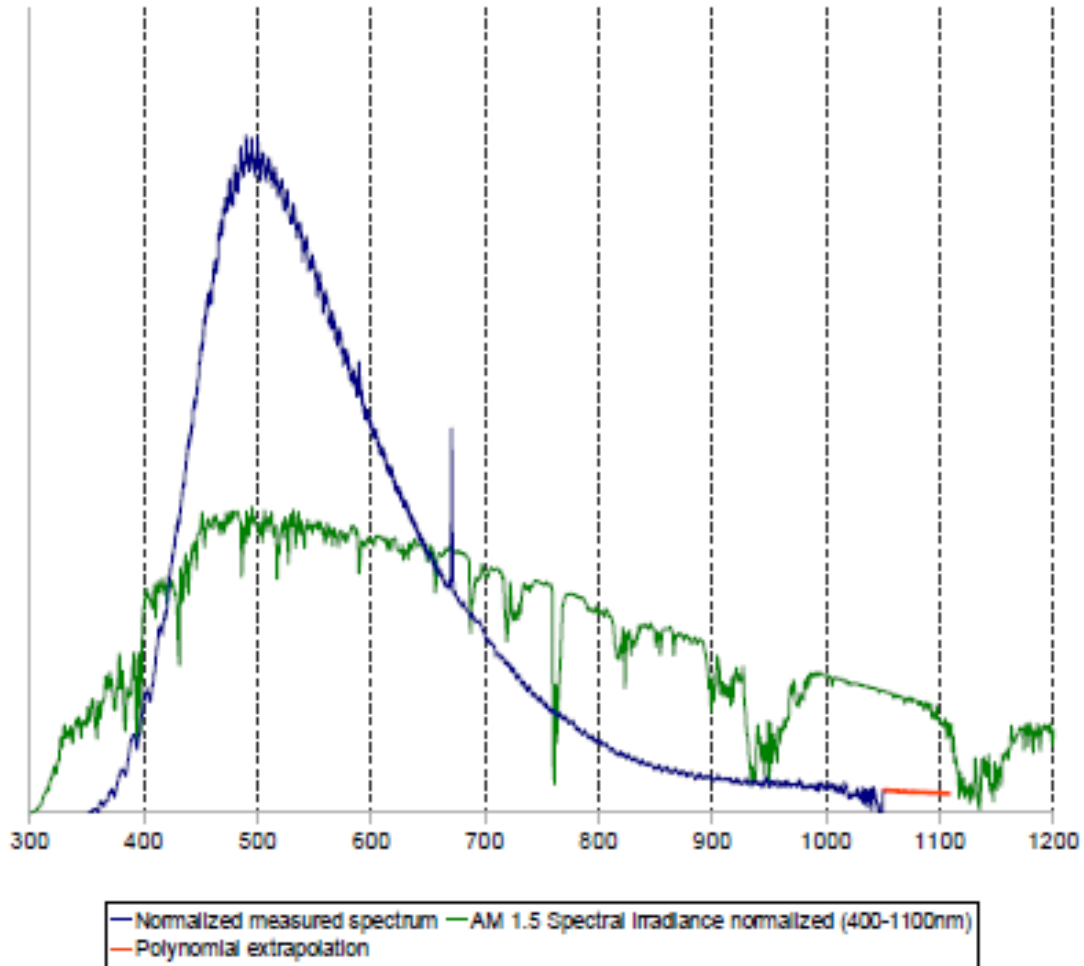
**Reference Cell Isc: 21 [mA]**

- This information is indicative, following the manufacturing batch, the parameters may change slightly.
- Reference Cell Isc measurement it's performed at 50cm with a reproducible setup. Use this value for compare the relative energetic performance between the bulbs.



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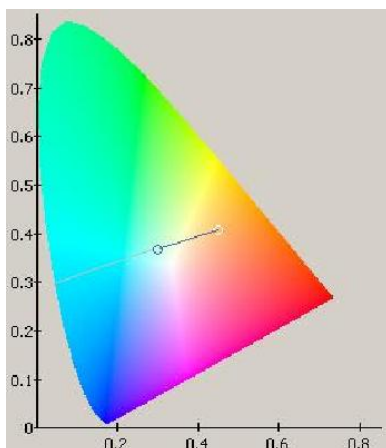
# Bulb Mix34 at 800W



Wavelength range	AM1.5 ratio	Spectrum ratio	Mismatch	Class
400-500 nm	18.4	25.9	1.41	C
500-600 nm	19.91	38.1	1.91	C
600-700 nm	18.36	19.9	1.08	A
700-800 nm	14.92	8.8	0.59	C
800-900 nm	12.46	3.6	0.29	-
900-1100 nm	15.94	3.7	0.23	-

Class A	Class B	Class C
0.75	0.60	0.40
1.25	1.40	2.00

## Lighting characteristics



**Color temperature = 6865 K**

**Color Render Index = 82.3 [-]**

**Colors coordinate: x = 0.299 y = 0.367**

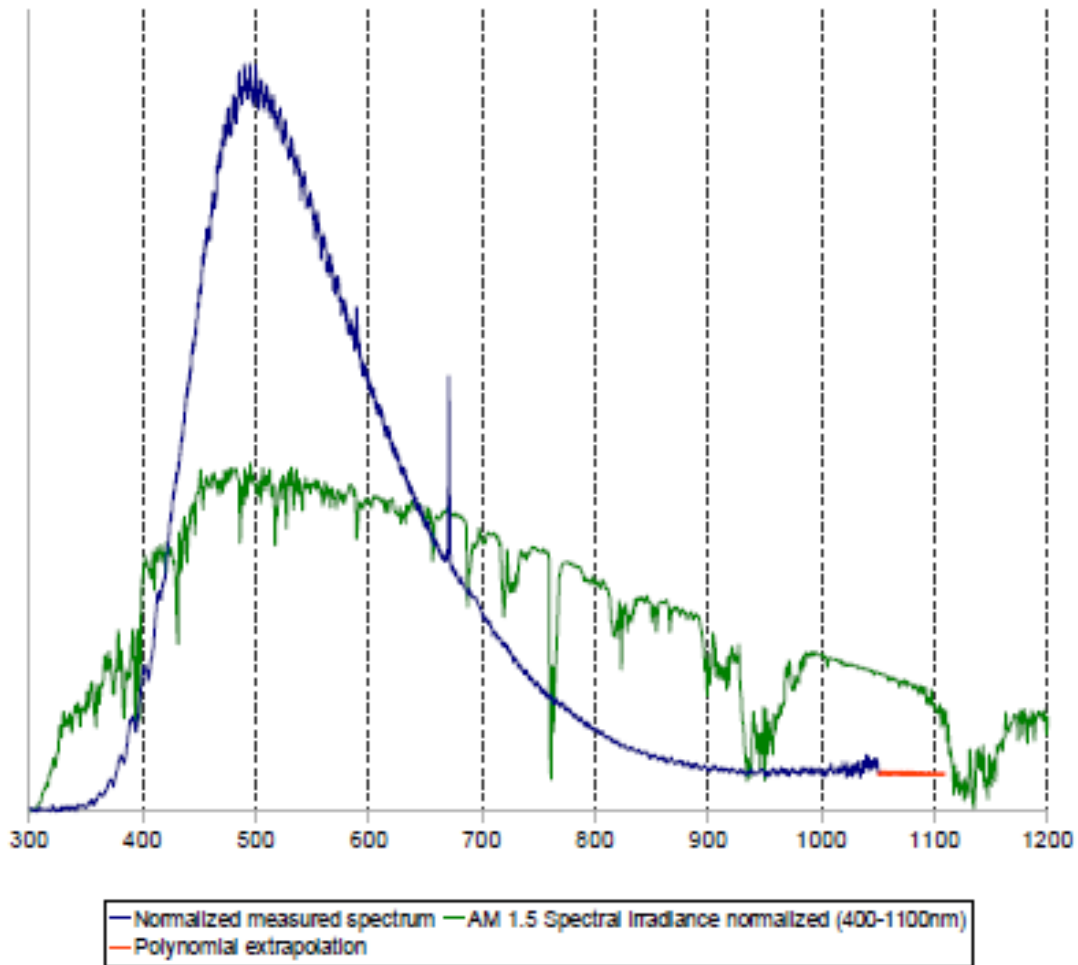
**Reference Cell Isc: 6.9 [mA]**

- This information is indicative, following the manufacturing batch, the parameters may change slightly.
- Reference Cell Isc measurement it's performed at 50cm with a reproducible setup. Use this value for compare the relative energetic performance between the bulbs.



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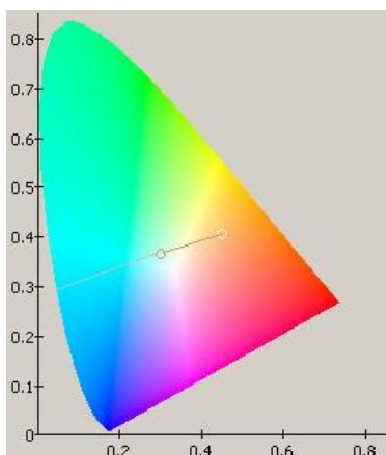
# Bulb Mix34 at 1000W



Wavelength range	AM1.5 ratio	Spectrum ratio	Mismatch	Class
400-500 nm	18.4	25.7	1.40	B
500-600 nm	19.91	37.1	1.86	C
600-700 nm	18.36	19.4	1.06	A
700-800 nm	14.92	8.7	0.58	C
800-900 nm	12.46	3.8	0.31	-
900-1100 nm	15.94	5.3	0.33	-

Class A	Class B	Class C
0.75	0.00	0.40
1.25	1.40	2.00

## Lighting characteristics



Color temperature = 6886 K

Color Render Index = 82.7 [-]

Colors coordinate:  $x = 0.299$   $y = 0.366$

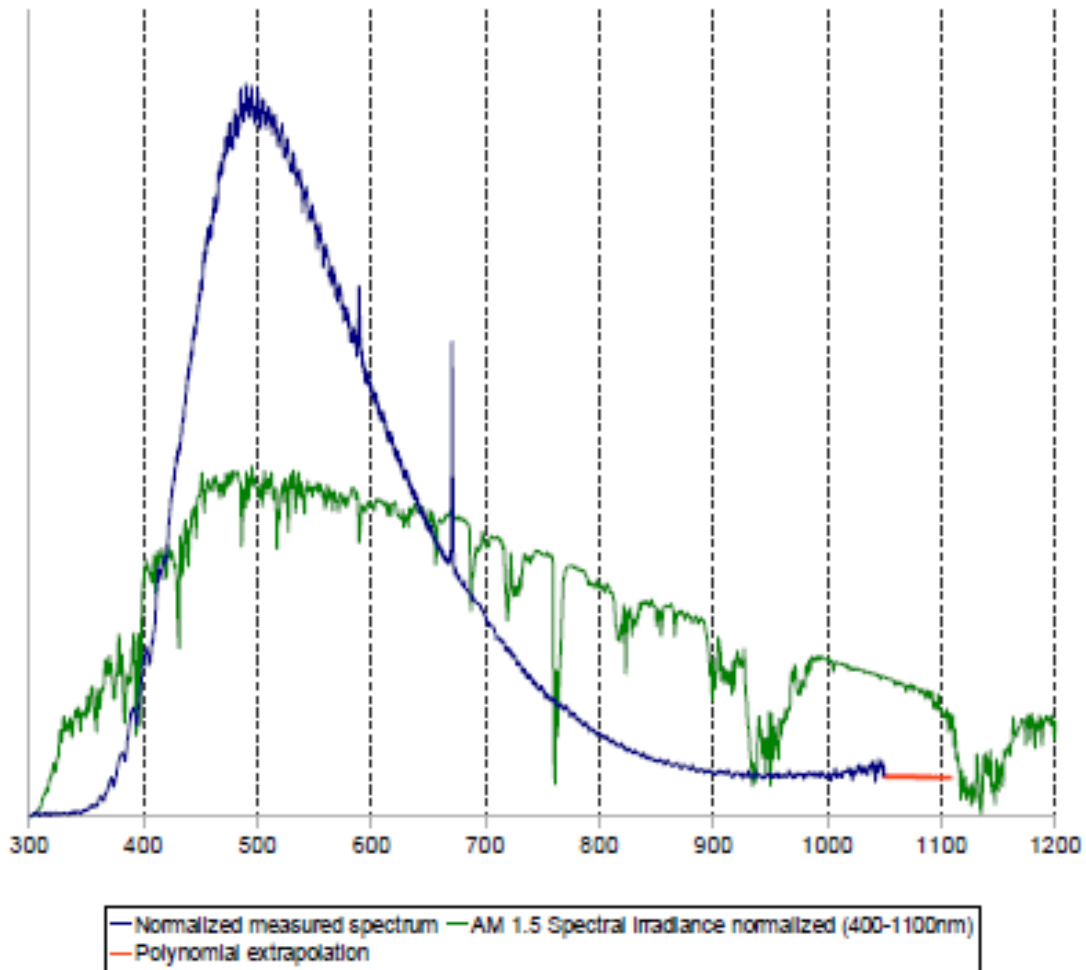
Reference Cell Isc: 9 [mA]

- This information is indicative, following the manufacturing batch, the parameters may change slightly.
- Reference Cell Isc measurement it's performed at 50cm with a reproducible setup. Use this value for compare the relative energetic performance between the bulbs.



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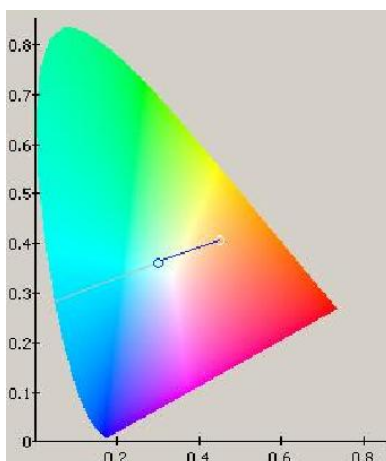
# Bulb Mix34 at 1300W



Wavelength range	AM1.5 ratio	Spectrum ratio	Mismatch	Class
400-500 nm	18.4	26.2	1.43	C
500-600 nm	19.91	36.4	1.83	C
600-700 nm	18.36	19.4	1.05	A
700-800 nm	14.92	8.7	0.58	C
800-900 nm	12.46	3.9	0.31	-
900-1100 nm	15.94	5.5	0.34	-

Class A	Class B	Class C
0.75	0.60	0.40
1.25	1.40	2.00

## Lighting characteristics



**Color temperature = 6946 K**

**Color Render Index = 83.8 [-]**

**Colors coordinate: x = 0.299 y = 0.361**

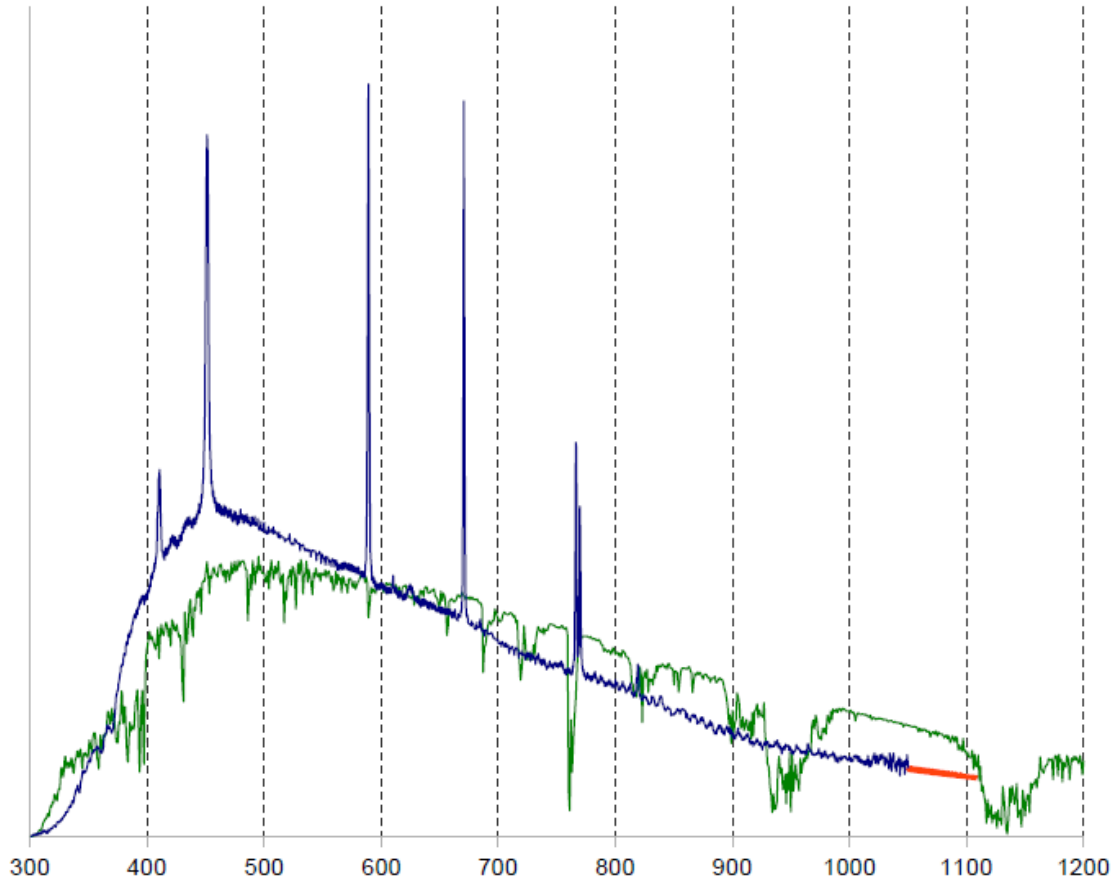
**Reference Cell Isc: 11.8 [mA]**

- This information is indicative, following the manufacturing batch, the parameters may change slightly.
- Reference Cell Isc measurement it's performed at 50cm with a reproducible setup. Use this value for compare the relative energetic performance between the bulbs.



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# Bulb Mix35 at 800W

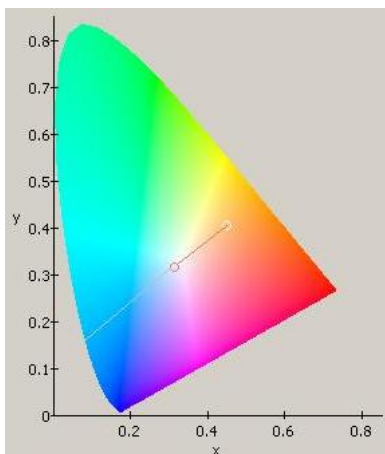


— Normalized measured spectrum — AM 1.5 Spectral irradiance normalized (400-1100nm)  
 — Polynomial extrapolation

Wavelength range	AM1.5 ratio	Spectrum ratio	Mismatch	Class
400-500 nm	18.4	23.3	1.27	B
500-600 nm	19.91	21.8	1.10	A
600-700 nm	18.36	17.9	0.97	A
700-800 nm	14.92	13.9	0.93	A
800-900 nm	12.46	10.2	0.82	A
900-1100 nm	15.94	12.9	0.81	A

Class A	Class B	Class C
0.75	0.60	0.40
1.25	1.40	2.00

## Lighting characteristics



Color temperature = 6550 K

Color Render Index = 97 [-]

Colors coordinate:  $x = 0.314$   $y = 0.317$

Reference Cell Isc: 9 [mA]

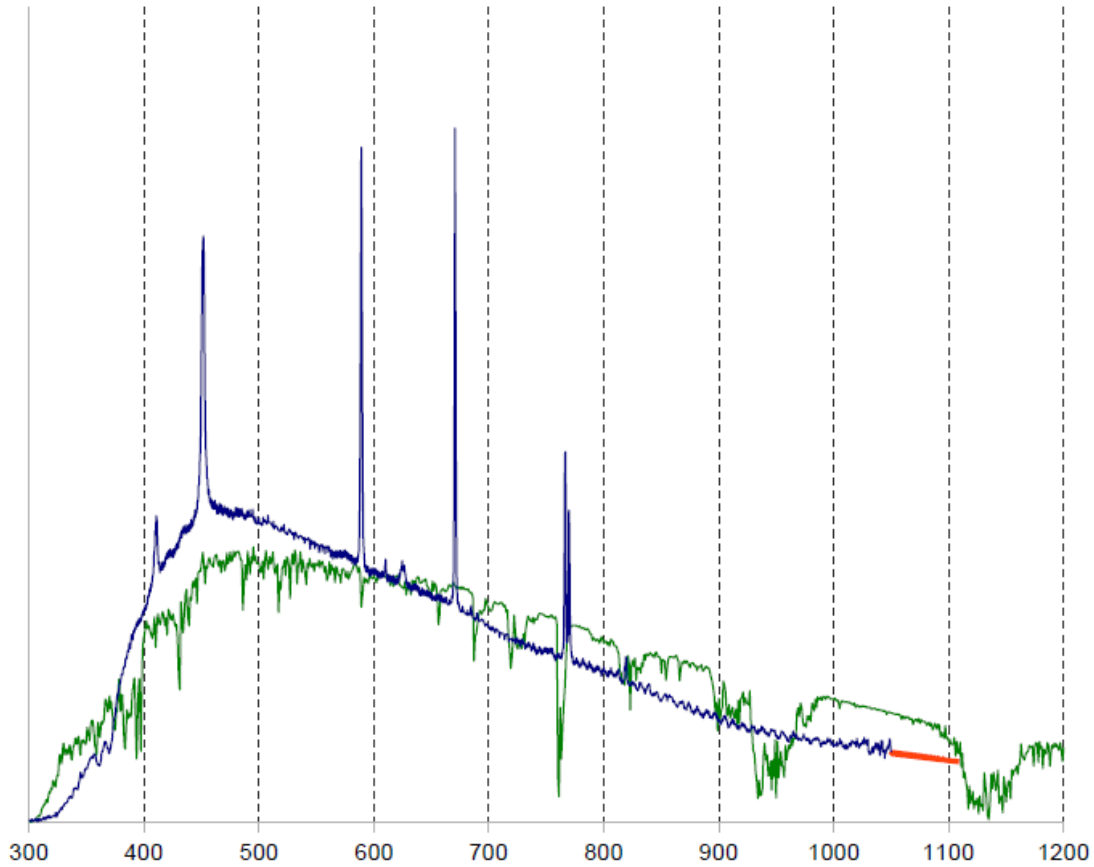
- This information is indicative, following the manufacturing batch, the parameters may change slightly.
- Reference Cell Isc measurement it's performed at 50cm with a reproducible setup. Use this value for compare the relative energetic performance between the bulbs.





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# Bulb Mix35 at 1000W

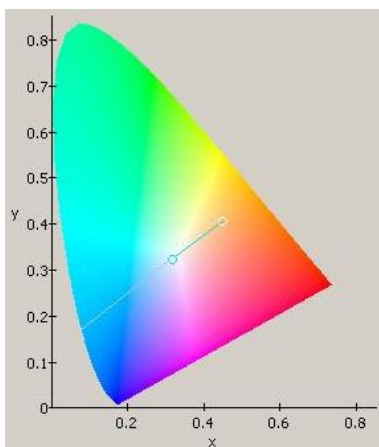


— Normalized measured spectrum — AM 1.5 Spectral irradiance normalized (400-1100nm)  
 — Polynomial extrapolation

Wavelength range	AM1.5 ratio	Spectrum ratio	Mismatch	Class
400-500 nm	18.4	22.1	1.20	A
500-600 nm	19.91	22.0	1.10	A
600-700 nm	18.36	18.2	0.99	A
700-800 nm	14.92	14.1	0.94	A
800-900 nm	12.46	10.3	0.83	A
900-1100 nm	15.94	13.3	0.83	A

Class A	Class B	Class C
0.75	0.60	0.40
1.25	1.40	2.00

## Lighting characteristics



**Color temperature = 6250 K**

**Color Render Index = 97.5 [-]**

**Colors coordinate: x = 0.318 y = 0.324**

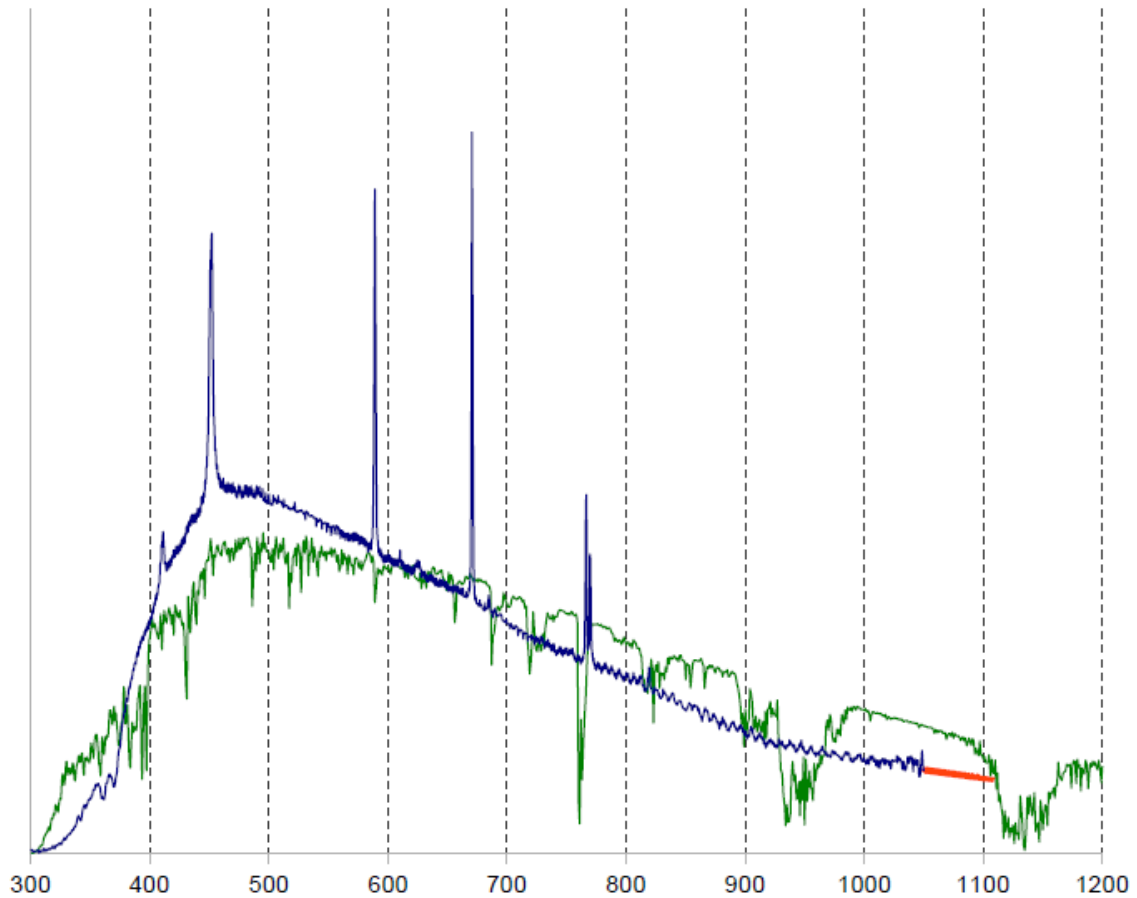
**Reference Cell Isc: 12 [mA]**

- This information is indicative, following the manufacturing batch, the parameters may change slightly.
- Reference Cell Isc measurement it's performed at 50cm with a reproducible setup. Use this value for compare the relative energetic performance between the bulbs.



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# Bulb Mix35 at 1300W

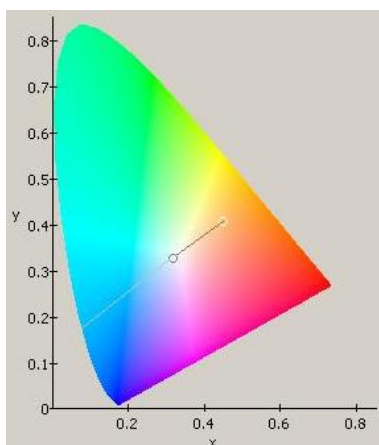


— Normalized measured spectrum — AM 1.5 Spectral irradiance normalized (400-1100nm)  
 — Polynomial extrapolation

Wavelength range	AM1.5 ratio	Spectrum ratio	Mismatch	Class
400-500 nm	18.4	21.6	1.18	A
500-600 nm	19.91	22.0	1.11	A
600-700 nm	18.36	18.3	1.00	A
700-800 nm	14.92	14.1	0.94	A
800-900 nm	12.46	10.4	0.83	A
900-1100 nm	15.94	13.5	0.85	A

Class A	Class B	Class C
0.75	0.60	0.40
1.25	1.40	2.00

## Lighting characteristics



**Color temperature = 6250 K**

**Color Render Index = 98 [-]**

**Colors coordinate: x = 0.318 y = 0.326**

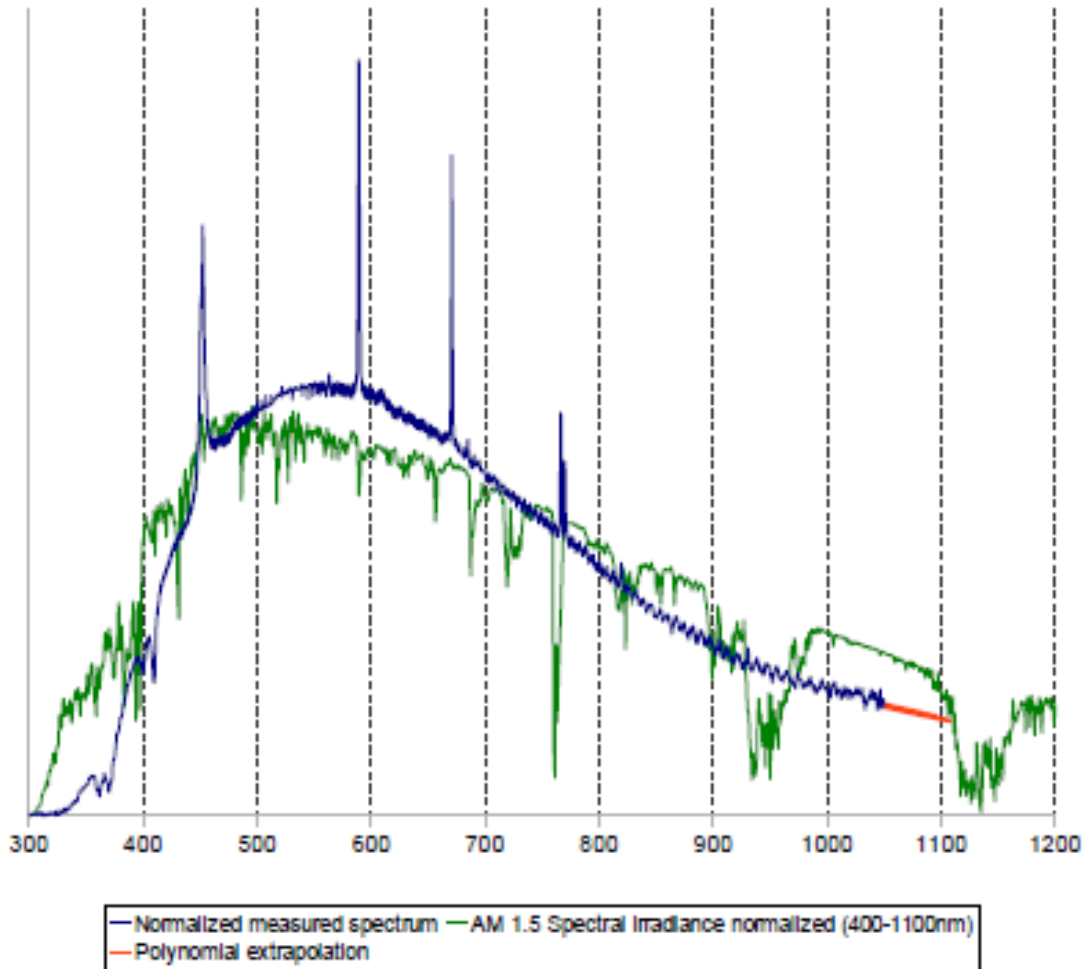
**Reference Cell Isc: 18.5 [mA]**

- This information is indicative, following the manufacturing batch, the parameters may change slightly.
- Reference Cell Isc measurement it's performed at 50cm with a reproducible setup. Use this value for compare the relative energetic performance between the bulbs.



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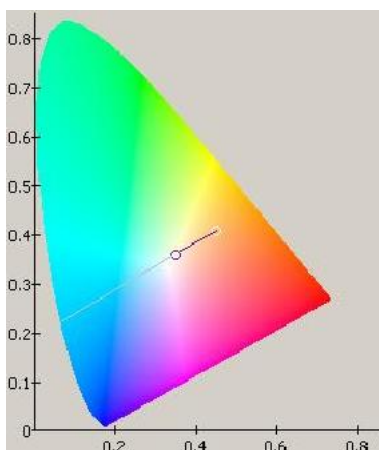
# Bulb Mix37-10 at 800W



Wavelength range	AM1.5 ratio	Spectrum ratio	Mismatch	Class
400-500 nm	18.4	15.5	0.84	A
500-600 nm	19.91	22.0	1.10	A
600-700 nm	18.36	20.5	1.12	A
700-800 nm	14.92	16.2	1.09	A
800-900 nm	12.46	11.4	0.91	A
900-1100 nm	15.94	14.5	0.91	A

Class A	Class B	Class C
0.75	0.60	0.40
1.25	1.40	2.00

## Lighting characteristics



**Color temperature = 4910 K**

**Color Render Index = 96.3 [-]**

**Colors coordinate: x = 0.348 y = 0.360**

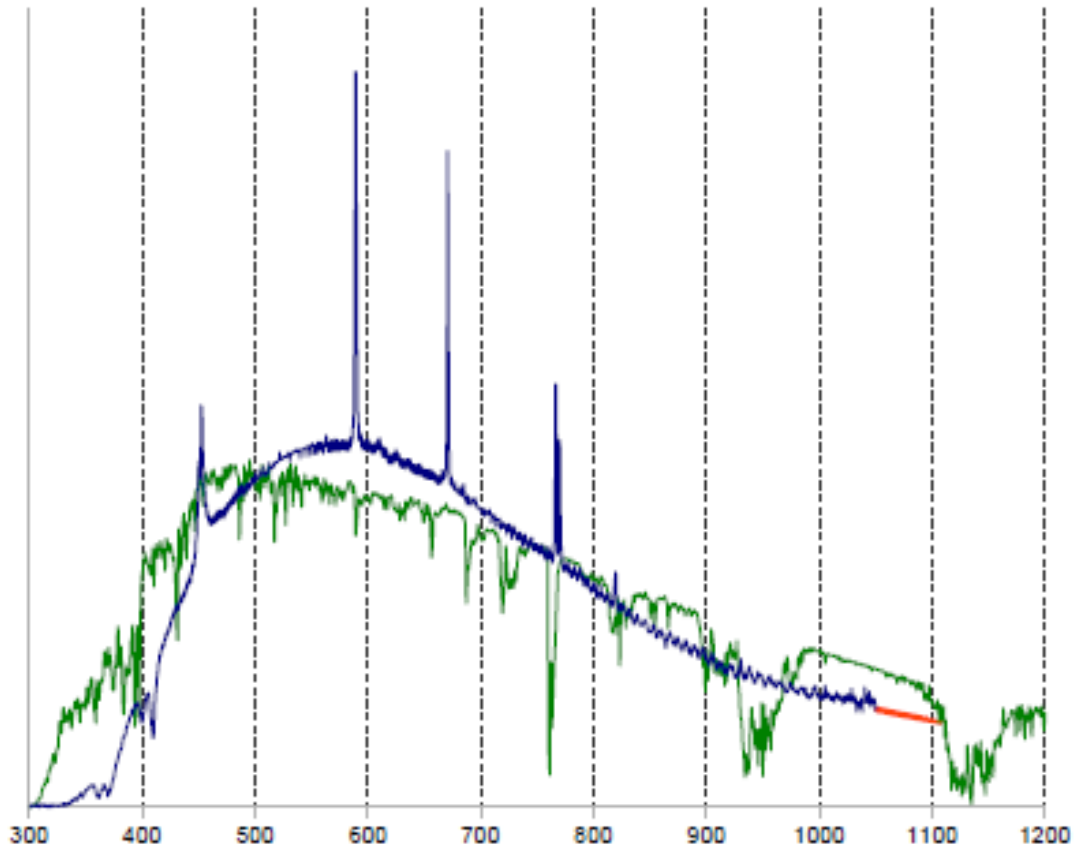
**Reference Cell Isc: 15.8 [mA]**

- This information is indicative, following the manufacturing batch, the parameters may change slightly.
- Reference Cell Isc measurement it's performed at 50cm with a reproducible setup. Use this value for compare the relative energetic performance between the bulbs.



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# Bulb Mix37-10 at 1000W

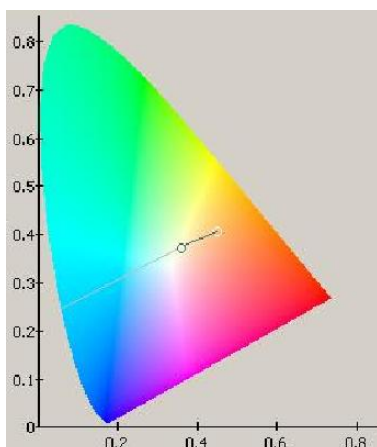


— Normalized measured spectrum — AM 1.5 Spectral Irradiance normalized (400-1100nm)  
 — Polynomial extrapolation

Wavelength range	AM1.5 ratio	Spectrum ratio	Mismatch	Class
400-500 nm	18.4	13.5	0.73	B
500-600 nm	19.91	21.7	1.09	A
600-700 nm	18.36	21.0	1.14	A
700-800 nm	14.92	16.8	1.13	A
800-900 nm	12.46	11.8	0.95	A
900-1100 nm	15.94	15.1	0.95	A

Class A	Class B	Class C
0.75	0.60	0.40
1.25	1.40	2.00

## Lighting characteristics



Color temperature = 4558 K

Color Render Index = 95.0 [-]

Colors coordinate:  $x = 0.360$   $y = 0.371$

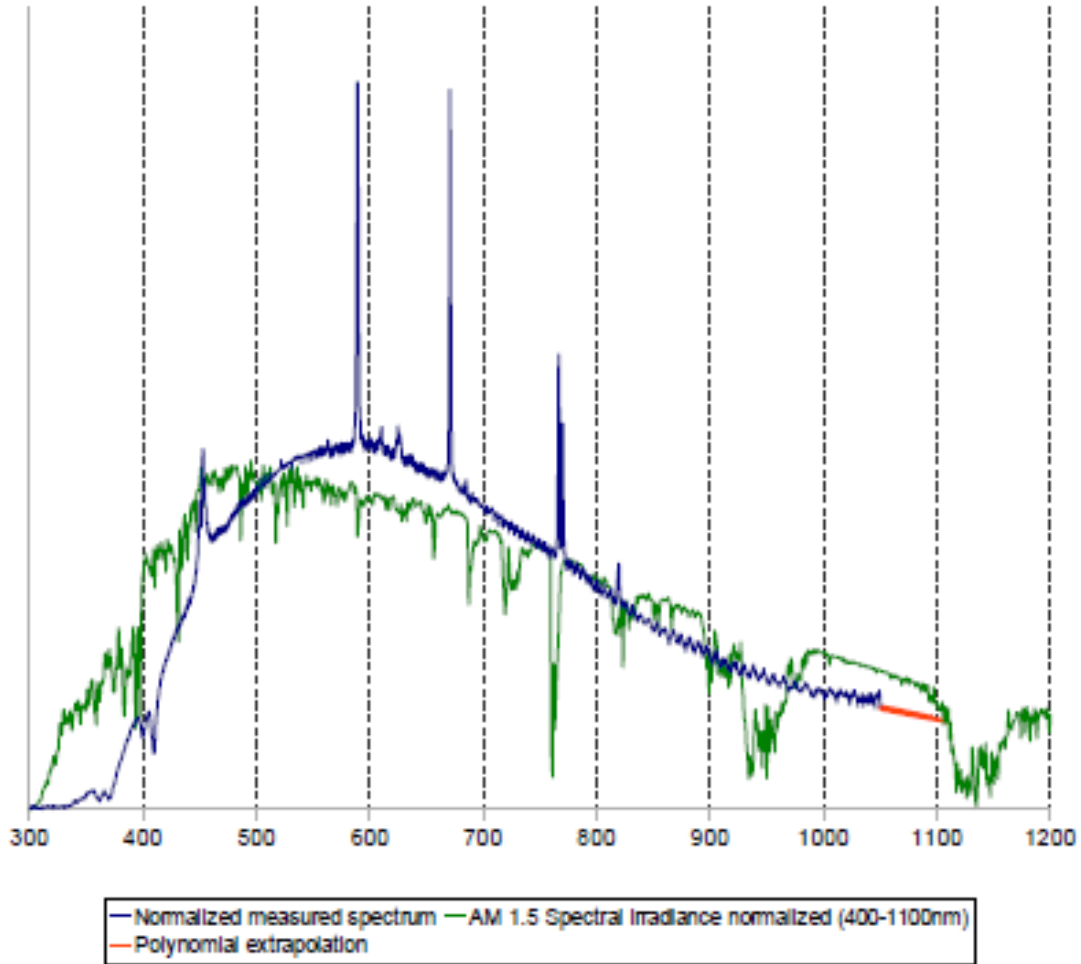
Reference Cell Isc: 21 [mA]

- This information is indicative, following the manufacturing batch, the parameters may change slightly.
- Reference Cell Isc measurement it's performed at 50cm with a reproducible setup. Use this value for compare the relative energetic performance between the bulbs.



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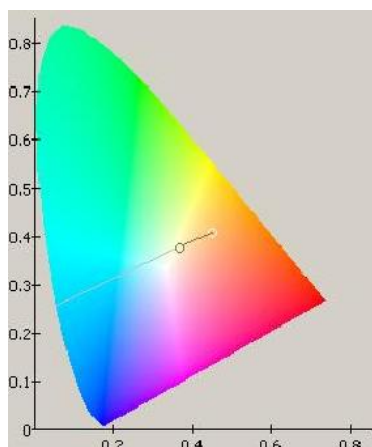
# Bulb Mix37-10 at 1300W



Wavelength range	AM1.5 ratio	Spectrum ratio	Mismatch	Class
400-500 nm	18.4	12.5	0.68	B
500-600 nm	19.91	21.4	1.08	A
600-700 nm	18.36	21.3	1.16	A
700-800 nm	14.92	17.1	1.15	A
800-900 nm	12.46	12.1	0.97	A
900-1100 nm	15.94	15.6	0.98	A

Class A	Class B	Class C
0.75	0.60	0.40
1.25	1.40	2.00

## Lighting characteristics



Color temperature = 4372 K

Color Render Index = 94.8 [-]

Colors coordinate:  $x = 0.367$   $y = 0.377$

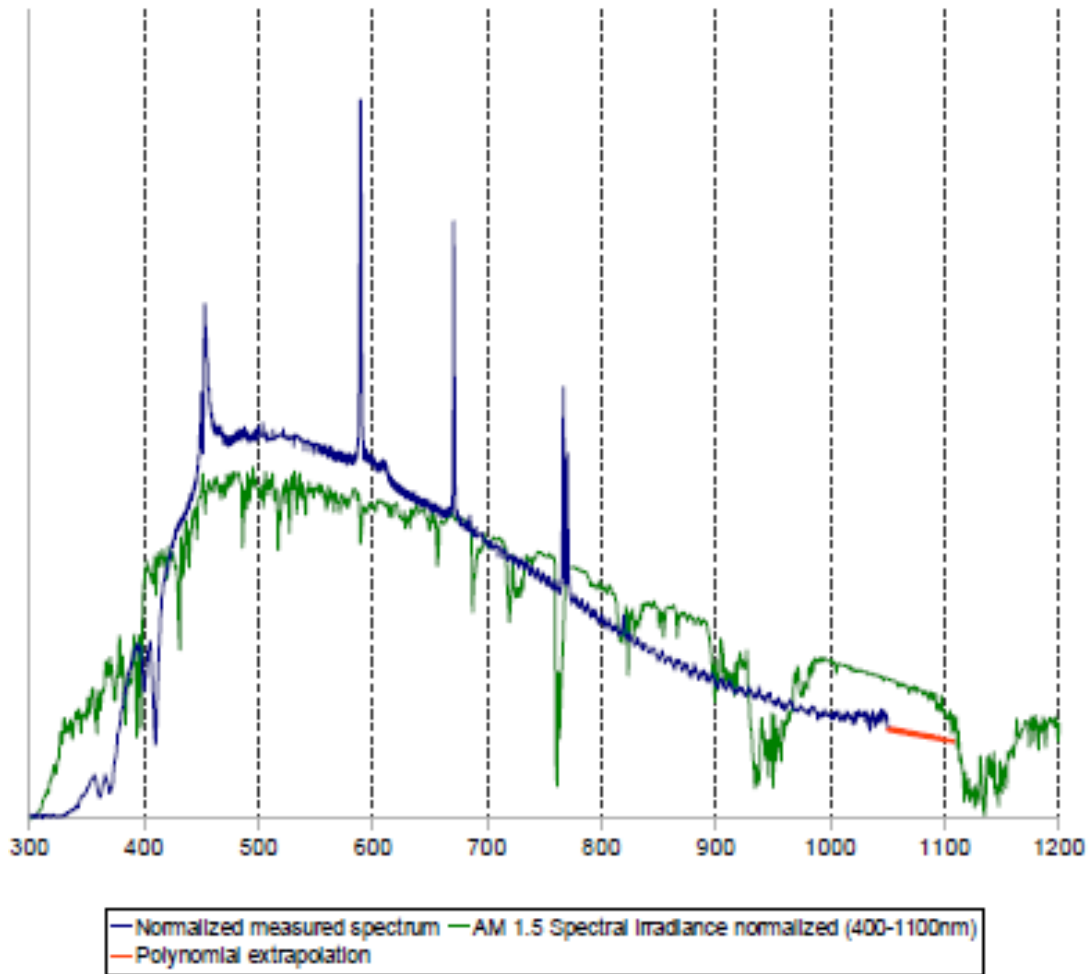
Reference Cell Isc: 27 [mA]

- This information is indicative, following the manufacturing batch, the parameters may change slightly.
- Reference Cell Isc measurement it's performed at 50cm with a reproducible setup. Use this value for compare the relative energetic performance between the bulbs.



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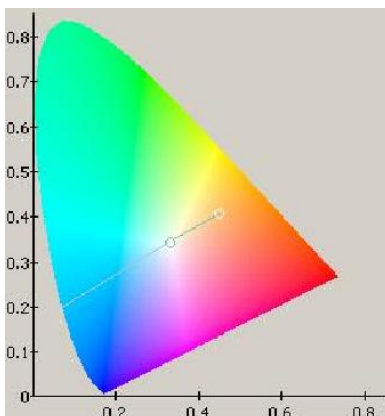
# Bulb Mix38 at 800W



Wavelength range	AM1.5 ratio	Spectrum ratio	Mismatch	Class
400-500 nm	18.4	18.0	0.98	A
500-600 nm	19.91	22.7	1.14	A
600-700 nm	18.36	19.6	1.07	A
700-800 nm	14.92	15.3	1.03	A
800-900 nm	12.46	10.6	0.85	A
900-1100 nm	15.94	13.8	0.87	A

Class A	Class B	Class C
0.75	0.60	0.40
1.25	1.40	2.00

## Lighting characteristics



**Color temperature = 5505 K**

**Color Render Index = 96.8 [-]**

**Colors coordinate: x = 0.332 y = 0.344**

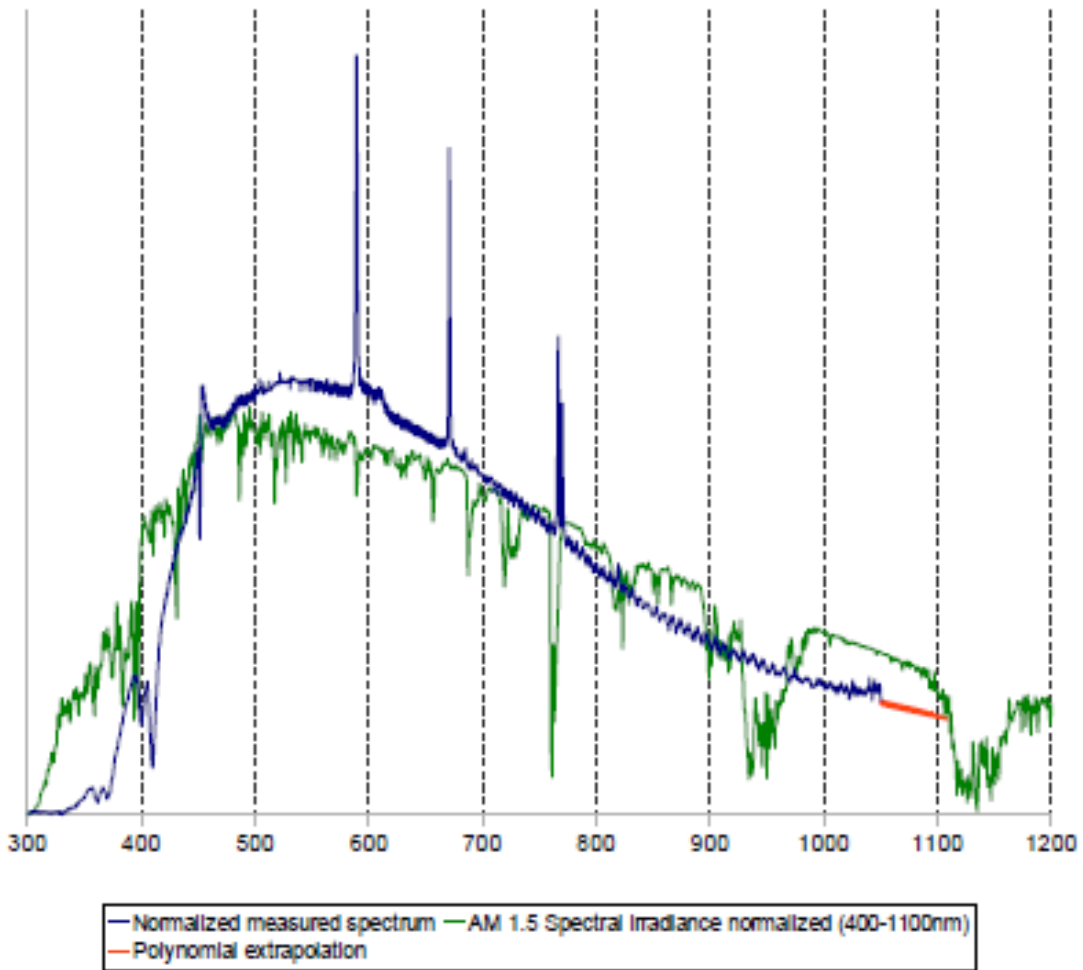
**Reference Cell Isc: 10.7 [mA]**

- This information is indicative, following the manufacturing batch, the parameters may change slightly.
- Reference Cell Isc measurement it's performed at 50cm with a reproducible setup. Use this value for compare the relative energetic performance between the bulbs.



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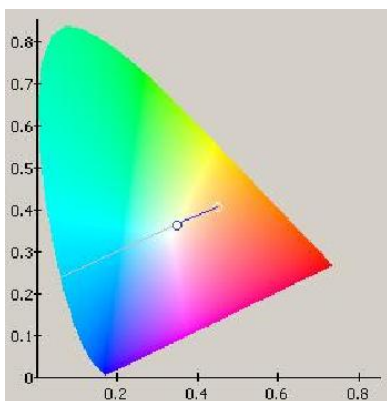
# Bulb Mix38 at 1000W



Wavelength range	AM1.5 ratio	Spectrum ratio	Mismatch	Class
400-500 nm	18.4	14.6	0.79	A
500-600 nm	19.91	22.4	1.12	A
600-700 nm	18.36	20.4	1.11	A
700-800 nm	14.92	16.3	1.09	A
800-900 nm	12.46	11.4	0.92	A
900-1100 nm	15.94	14.9	0.93	A

Class A	Class B	Class C
0.75	0.60	0.40
1.25	1.40	2.00

## Lighting characteristics



Color temperature = 4935 K

Color Render Index = 94.8 [-]

Colors coordinate:  $x = 0.348$   $y = 0.365$

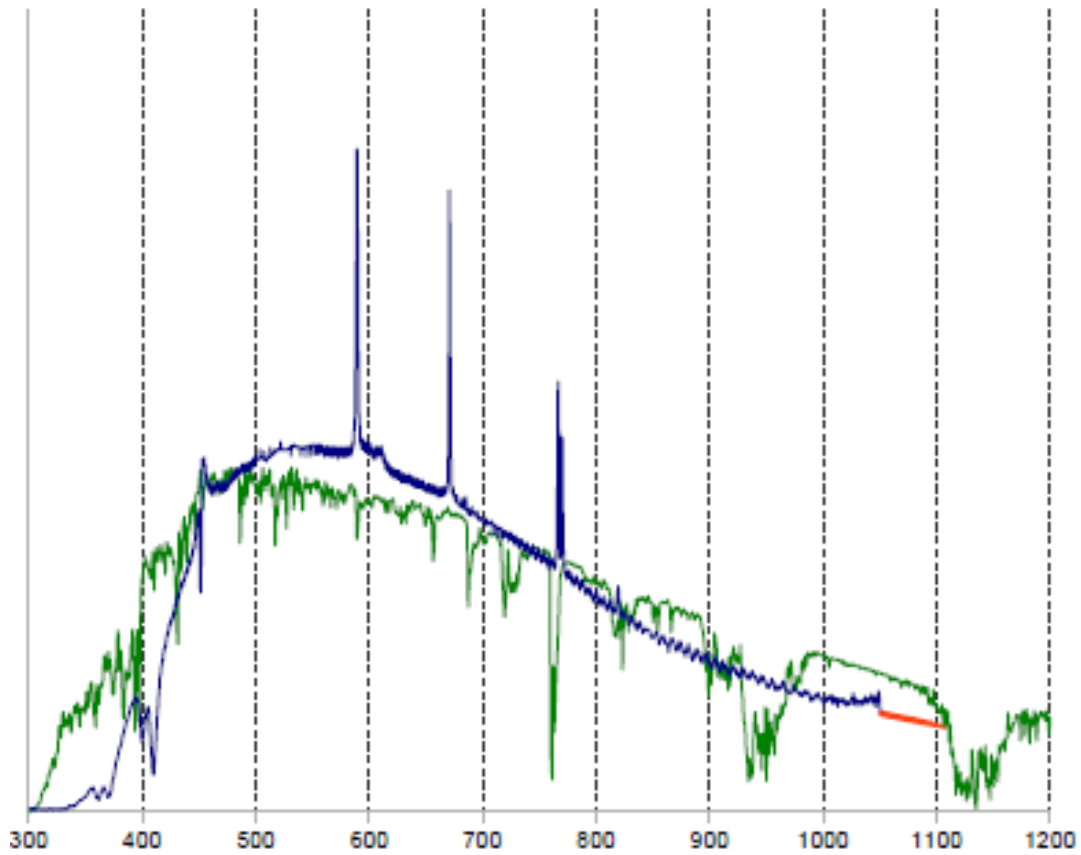
Reference Cell Isc: 14.8 [mA]

- This information is indicative, following the manufacturing batch, the parameters may change slightly.
- Reference Cell Isc measurement it's performed at 50cm with a reproducible setup. Use this value for compare the relative energetic performance between the bulbs.



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# Bulb Mix38 at 1300W

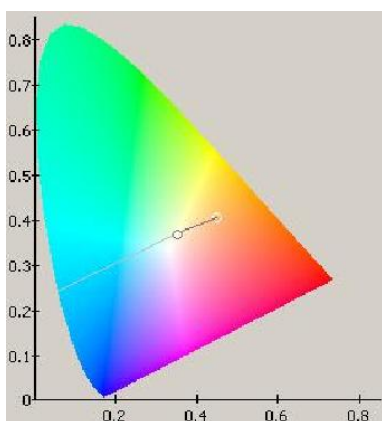


— Normalized measured spectrum — AM 1.5 Spectral Irradiance normalized (400-1100nm)  
 — Polynomial extrapolation

Wavelength range	AM1.5 ratio	Spectrum ratio	Mismatch	Class
400-500 nm	18.4	14.0	0.76	A
500-600 nm	19.91	22.1	1.11	A
600-700 nm	18.36	20.5	1.12	A
700-800 nm	14.92	16.5	1.11	A
800-900 nm	12.46	11.6	0.93	A
900-1100 nm	15.94	15.3	0.96	A

Class A	Class B	Class C
0.75	0.60	0.40
1.25	1.40	2.00

## Lighting characteristics



Color temperature = 4798 K

Color Render Index = 94.7 [-]

Colors coordinate:  $x = 0.352$   $y = 0.367$

Reference Cell Isc: 20.7 [mA]

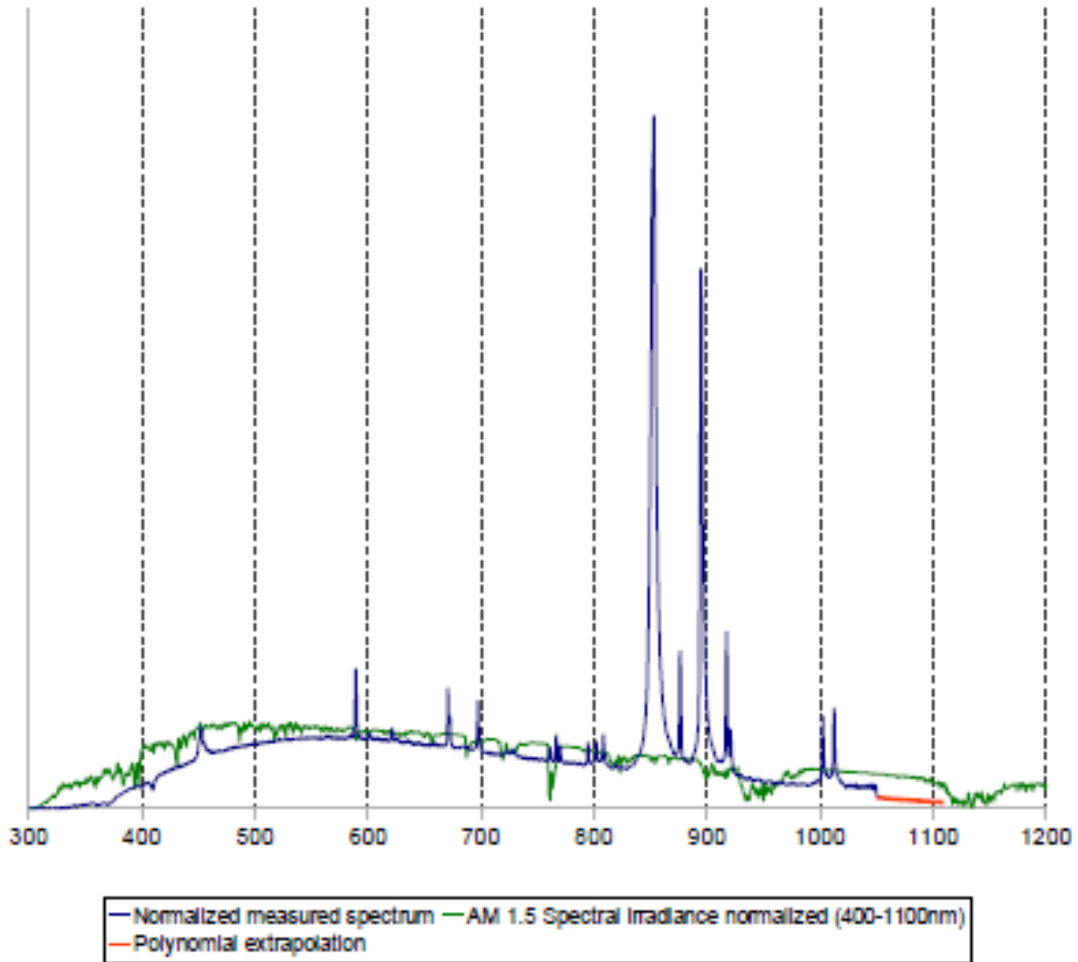
- This information is indicative, following the manufacturing batch, the parameters may change slightly.
- Reference Cell Isc measurement it's performed at 50cm with a reproducible setup. Use this value for compare the relative energetic performance between the bulbs.





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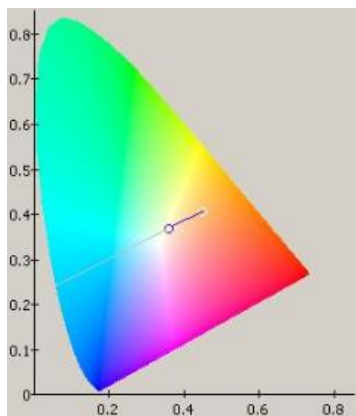
# Bulb Mix43 at 800W



Wavelength range	AM1.5 ratio	Spectrum ratio	Mismatch	Class
400-500 nm	18.4	10.9	0.59	C
500-600 nm	19.91	16.9	0.85	A
600-700 nm	18.36	16.3	0.89	A
700-800 nm	14.92	13.1	0.88	A
800-900 nm	12.46	23.7	1.90	C
900-1100 nm	15.94	19.1	1.20	A

Class A	Class B	Class C
0.75	0.60	0.40
1.25	1.40	2.00

## Lighting characteristics



**Color temperature = 4622 K**

**Color Render Index = 95.1 [-]**

**Colors coordinate: x = 0.358 y = 0.369**

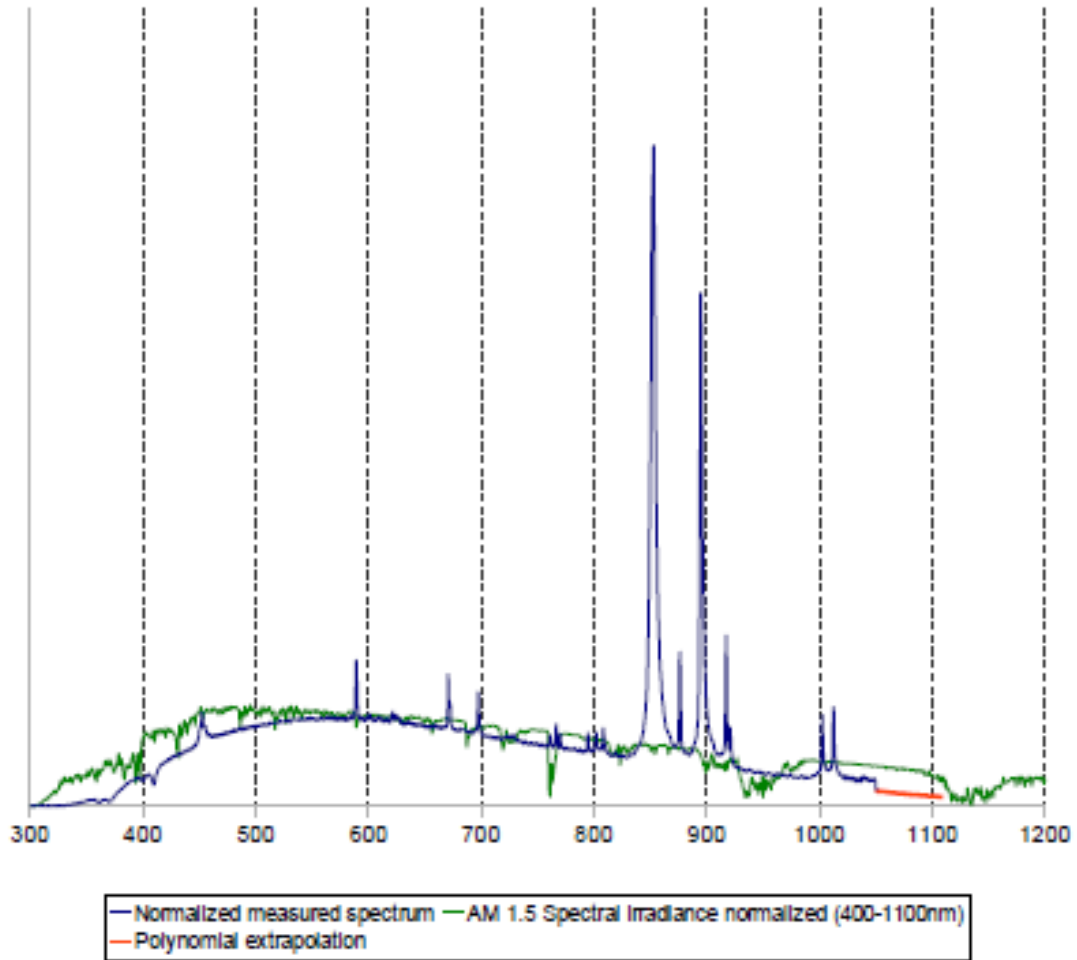
**Reference Cell Isc: 13.7 [mA]**

- This information is indicative, following the manufacturing batch, the parameters may change slightly.
- Reference Cell Isc measurement it's performed at 50cm with a reproducible setup. Use this value for compare the relative energetic performance between the bulbs.



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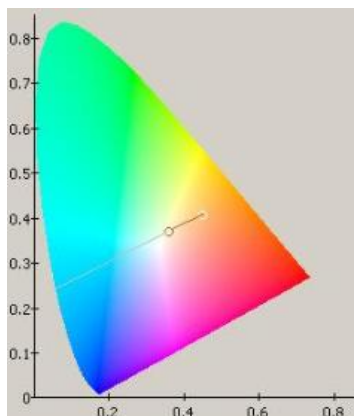
# Bulb Mix43 at 1000W



Wavelength range	AM1.5 ratio	Spectrum ratio	Mismatch	Class
400-500 nm	18.4	11.6	0.63	B
500-600 nm	19.91	17.9	0.90	A
600-700 nm	18.36	17.4	0.95	A
700-800 nm	14.92	13.9	0.93	A
800-900 nm	12.46	21.0	1.69	C
900-1100 nm	15.94	18.1	1.14	A

Class A	Class B	Class C
0.75	0.60	0.40
1.25	1.40	2.00

## Lighting characteristics



**Color temperature = 4630 K**

**Color Render Index = 95.9 [-]**

**Colors coordinate: x = 0.358 y = 0.369**

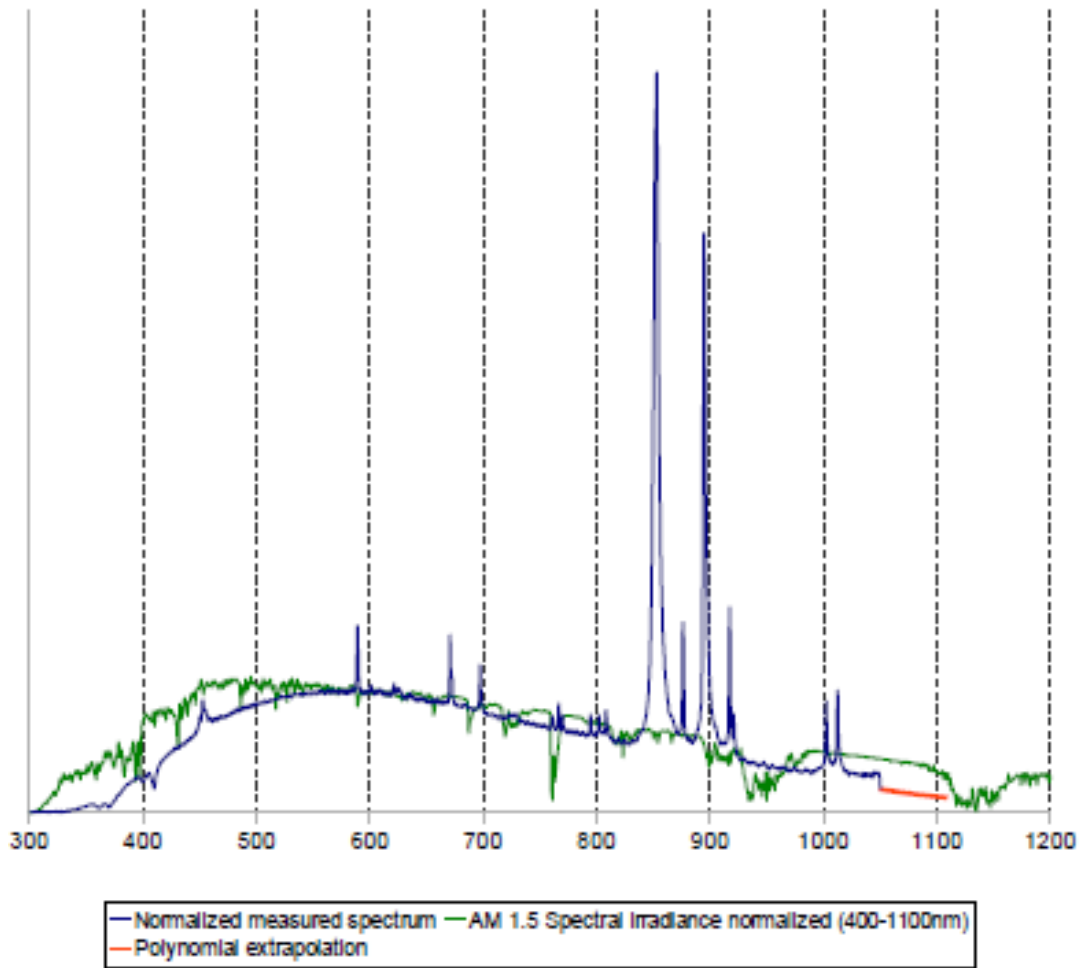
**Reference Cell Isc: 18.6 [mA]**

- This information is indicative, following the manufacturing batch, the parameters may change slightly.
- Reference Cell Isc measurement it's performed at 50cm with a reproducible setup. Use this value for compare the relative energetic performance between the bulbs.



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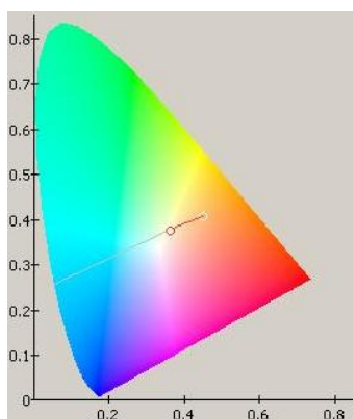
# Bulb Mix43 at 1300W



Wavelength range	AM1.5 ratio	Spectrum ratio	Mismatch	Class
400-500 nm	18.4	11.2	0.61	B
500-600 nm	19.91	18.3	0.92	A
600-700 nm	18.36	18.1	0.98	A
700-800 nm	14.92	14.6	0.98	A
800-900 nm	12.46	19.9	1.60	C
900-1100 nm	15.94	18.0	1.13	A

Class A	Class B	Class C
0.75	0.60	0.40
1.25	1.40	2.00

## Lighting characteristics



**Color temperature = 4517 K**

**Color Render Index = 95.6 [-]**

**Colors coordinate: x = 0.362 y = 0.374**

**Reference Cell Isc: 25.4 [mA]**

- This information is indicative, following the manufacturing batch, the parameters may change slightly.
- Reference Cell Isc measurement it's performed at 50cm with a reproducible setup. Use this value for compare the relative energetic performance between the bulbs.