Tomaskas Ltd

T5 Lamp Spectral Comparison

For Public Release

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Other people may have different results. The tests have been performed to our best knowledge in controlled conditions. There are uncontrollable variables when testing a small batch of any item. Different items of the same model number may differ due to their manufacturing batch or operating conditions.

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Definitions and Caveats

T5HO/T5 HO – T5 High Output tube lamp. Most of the lamps in this test fall under this category.

T5SO/T5 SO – T5 Standard Output tube lamp. Only one lamp in this test falls under this category, the Arcadia ShadeDwellerPro® 7% lamp.

Percentage – This is a generalised metric of the amount of energy irradiated by a lamp within the range associated with UVB radiation. It is often not a true representation and very often not comparable between products. Not an indication of total irradiance output.

UVI - This is shorthand for Ultra Violet Index. The relative or normalised intensity described in this document does not relate in any way to UVI.

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Notes and Caveats

All spectral data collected by Tomaskas Ltd. in September 2024.

The spectra were collected in differing setups, so have been normalised for comparison purposes.

Some data was normalised based on total output, and some was normalised based on the mercury emission line at 313nm. This is labelled accordingly.

For the sake of this document, the following definitions apply:

Technical UVB	280-320nm
Natural but *undesirable* UVB	290-295nm
Natural and desirable UVB	295-320nm
UVA2	320-350nm
UVA1	350-400nm

Notes and Caveats

The lamps tested are broken down into “low’, ‘medium’, and ‘high’ output. As follows:

Low Output	Medium Output	High Output
Zoo Med T5 HO ReptiSun® 2.5 UVB 15W Item: ES5-15	Arcadia T5 HO D3 Forest 6% UVB 24W* Item: RFD324T5	Arcadia T5 HO D3+ Desert 12% UVB 24W** Item: RFD3P24T5
Arcadia ShadeDwellerPro® 7% UV-B T5SO 8W Item: RARTP8S	Reptile Systems Zone 2 T5HO 24W^ Item: 117003	Reptile Systems Zone 3 T5HO 24W^^ Item: 117006
Reptile Systems Zone 1 T5HO 8W[x] Item: 320008	Exo Terra UVB200 7% UVB T5HO 24W Item: PT2427	Exo Terra UVB300 14% UVB T5HO 24W Item: PT2431
Exo Terra UVB100 3% UVB T5HO 8W Item: PT2380		

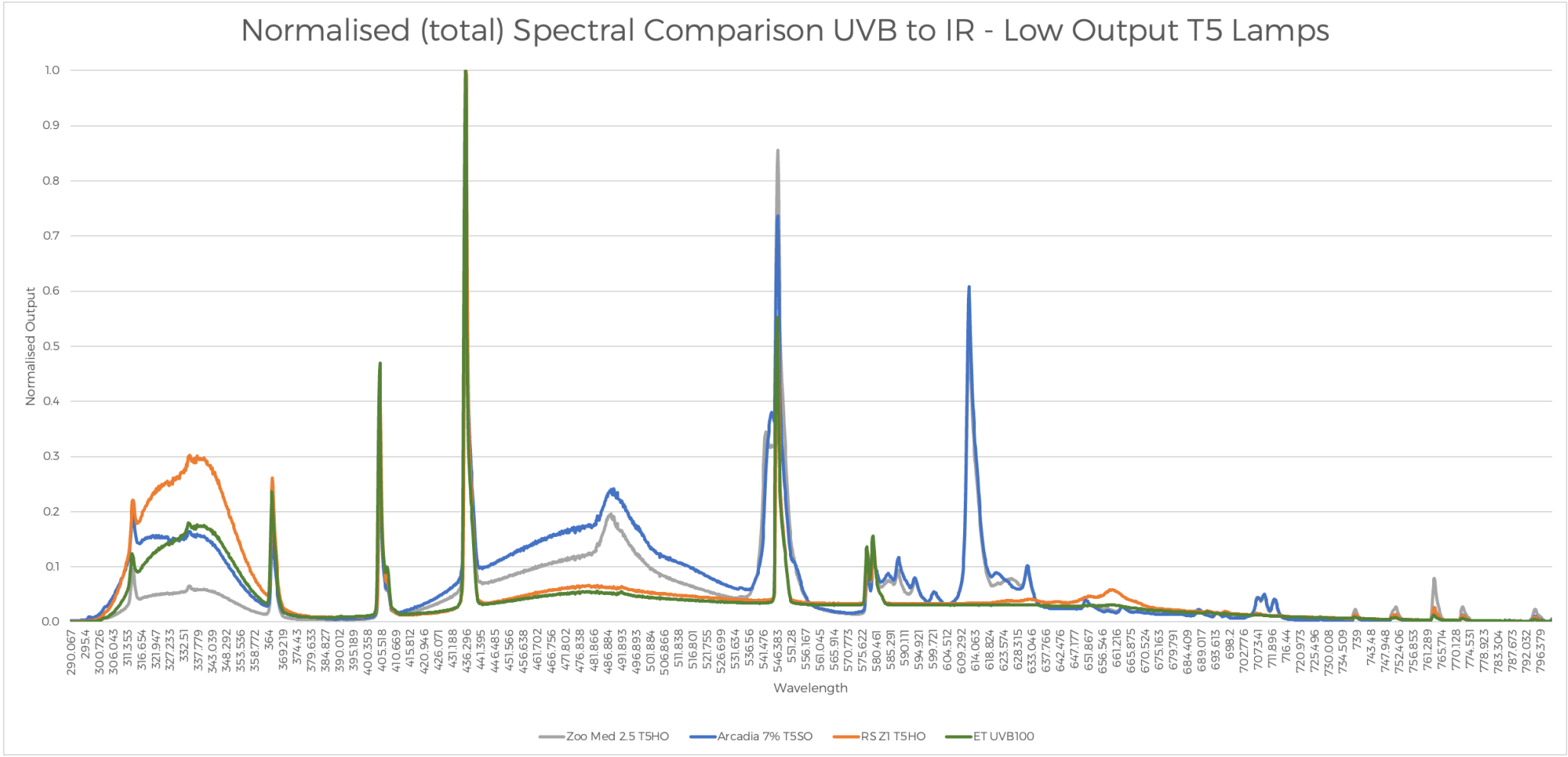
[x] The Mega Ray Zone 1 and Reptile Systems Zone 1 lamps are identical, so only one set of data is provided
* The Zoo Med 5.0 and Arcadia 6% lamps are identical, so only one set of data is provided
** The Zoo Med 10.0 and Arcadia 12% lamps are identical, so only one set of data is provided
^ The Leap Habitats 5.0, Mega Ray Zone 2, and Reptile Systems Zone 2 lamps are identical, so only one set of data is provided
^^ The Leap Habitats 10.0, Mega Ray Zone 3, and Reptile Systems Zone 3 lamps are identical, so only one set of data is provided

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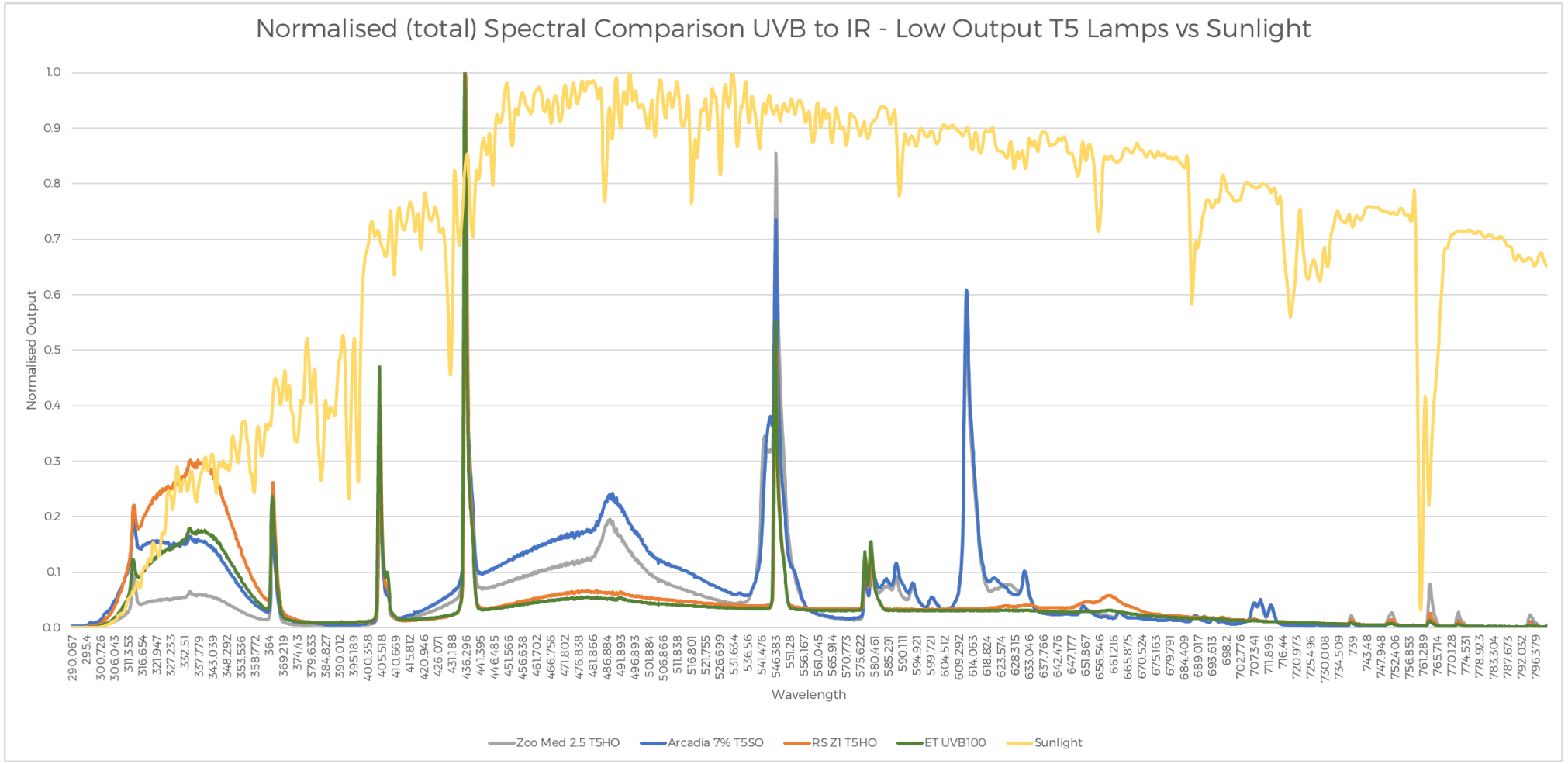


Low Output lamps



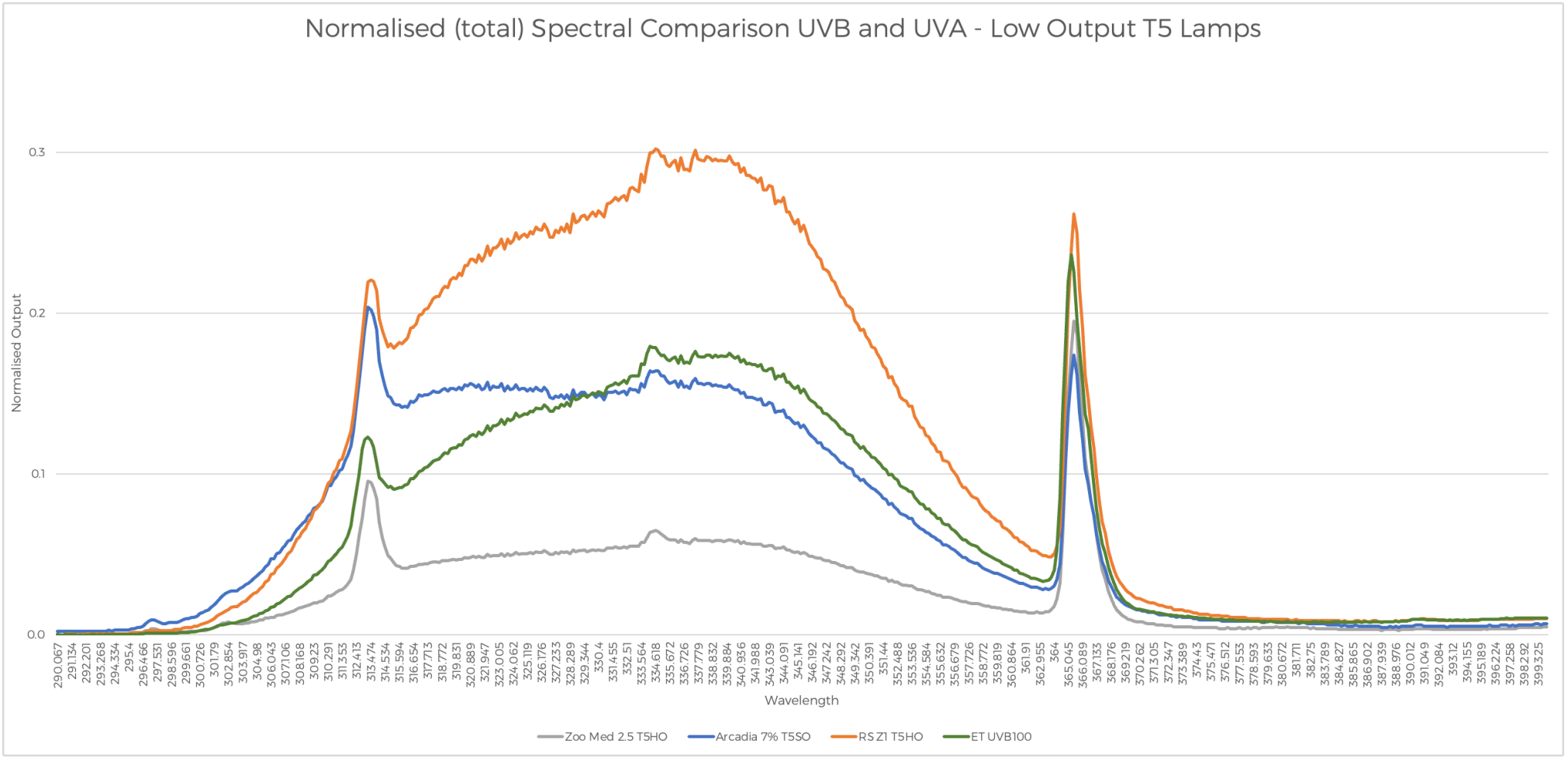
Low Output Lamps

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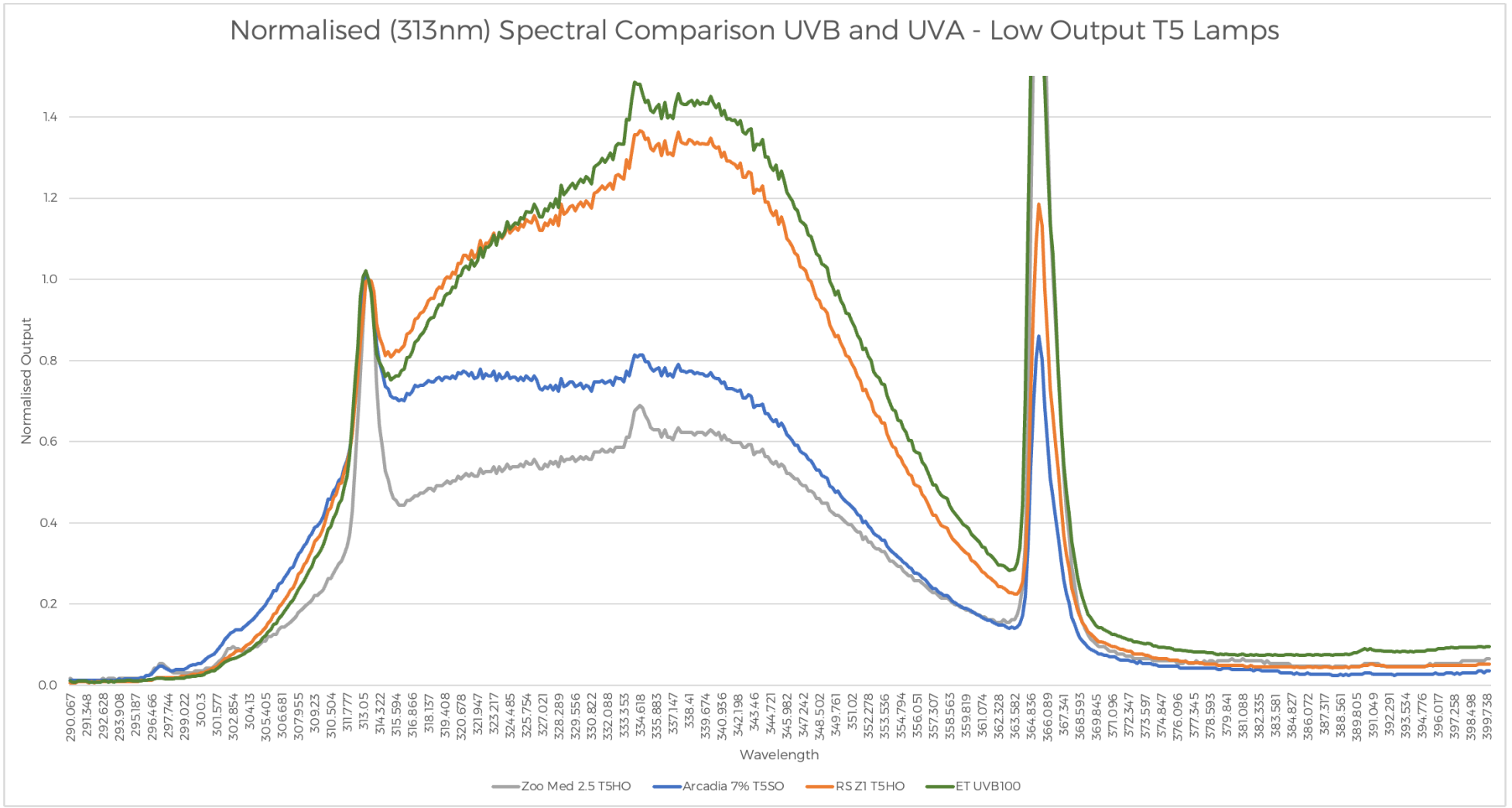
Low Output Lamps

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Low Output Lamps

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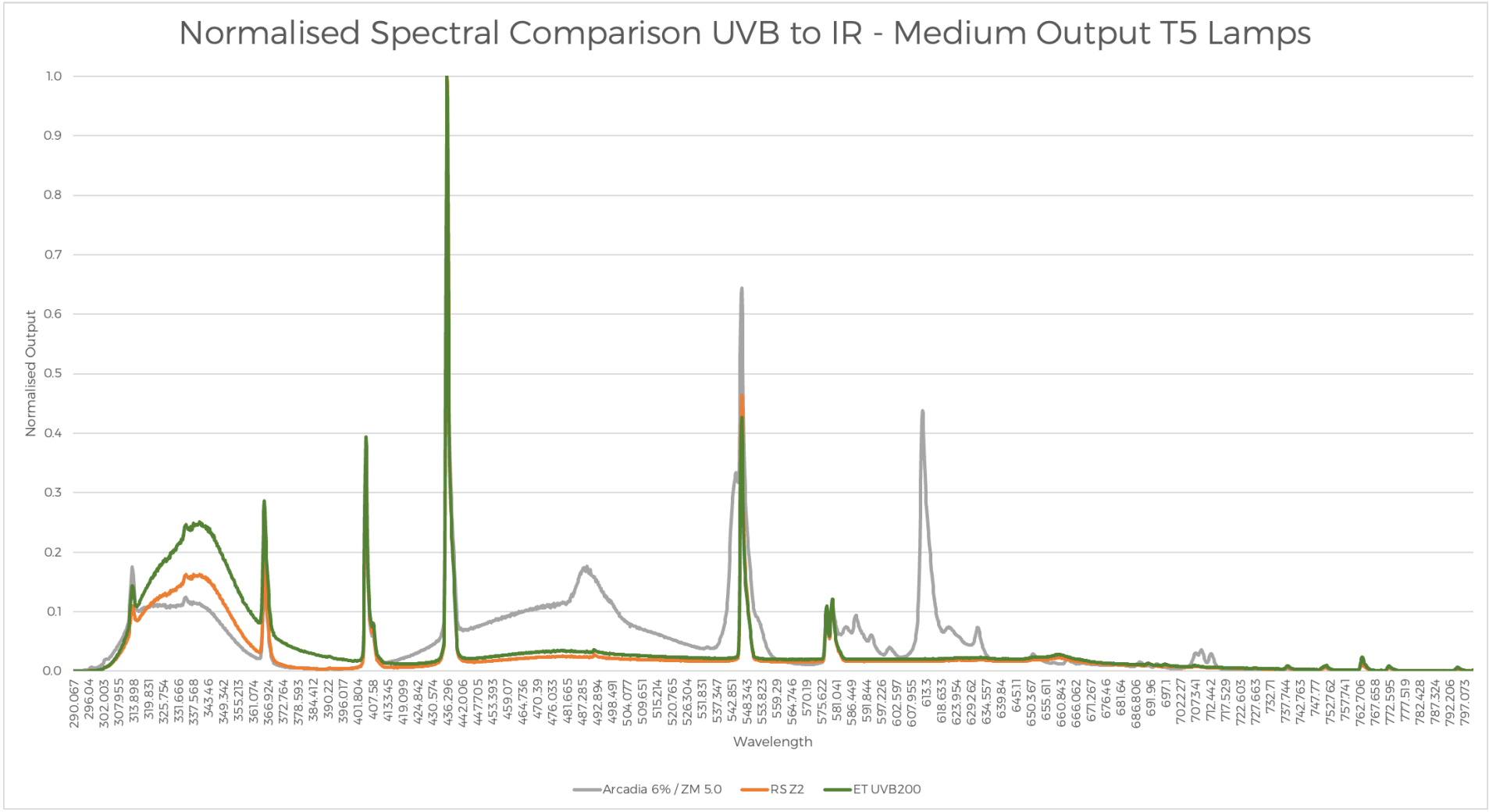


Low Output Lamps

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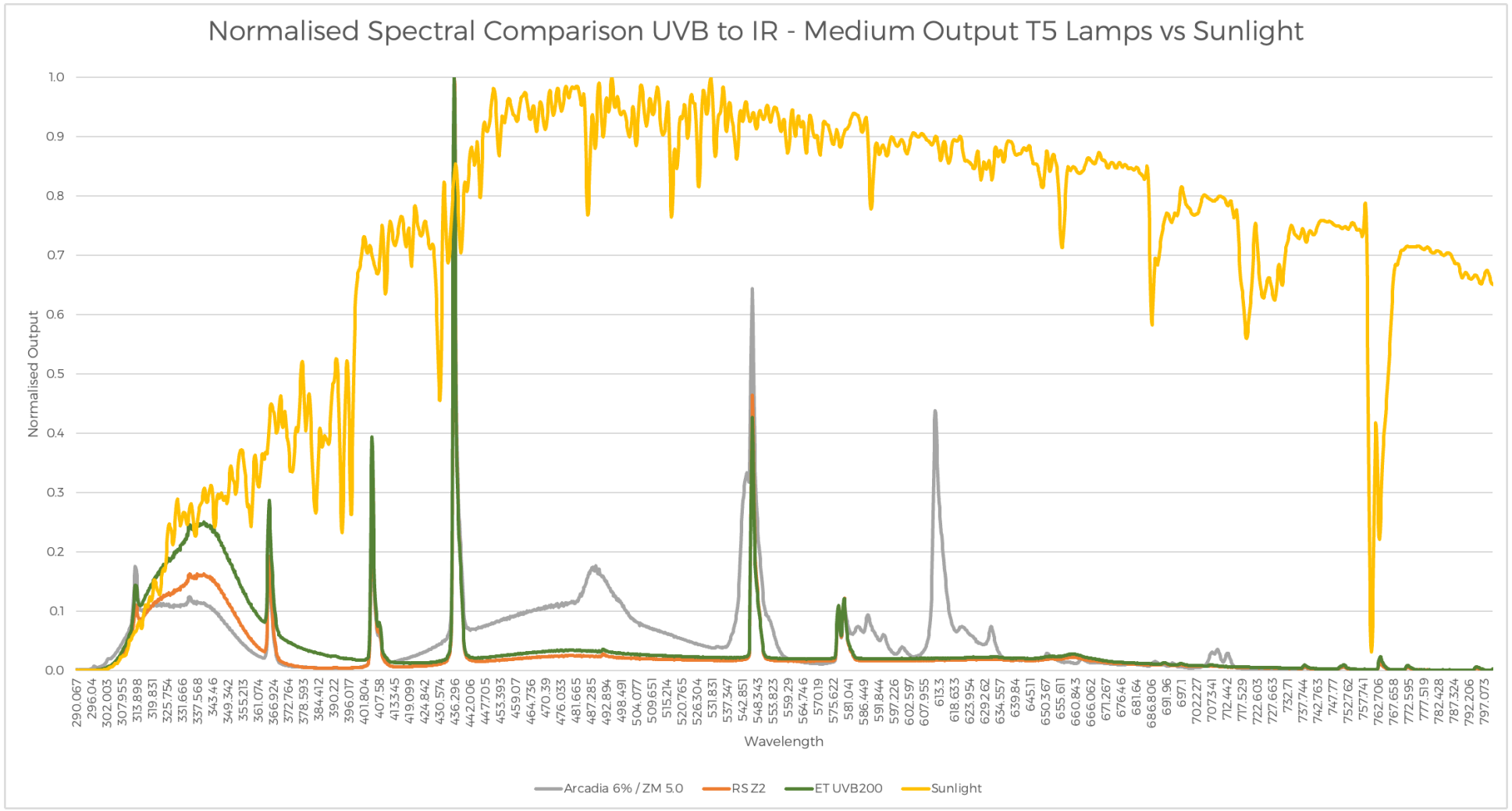
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Medium Output lamps



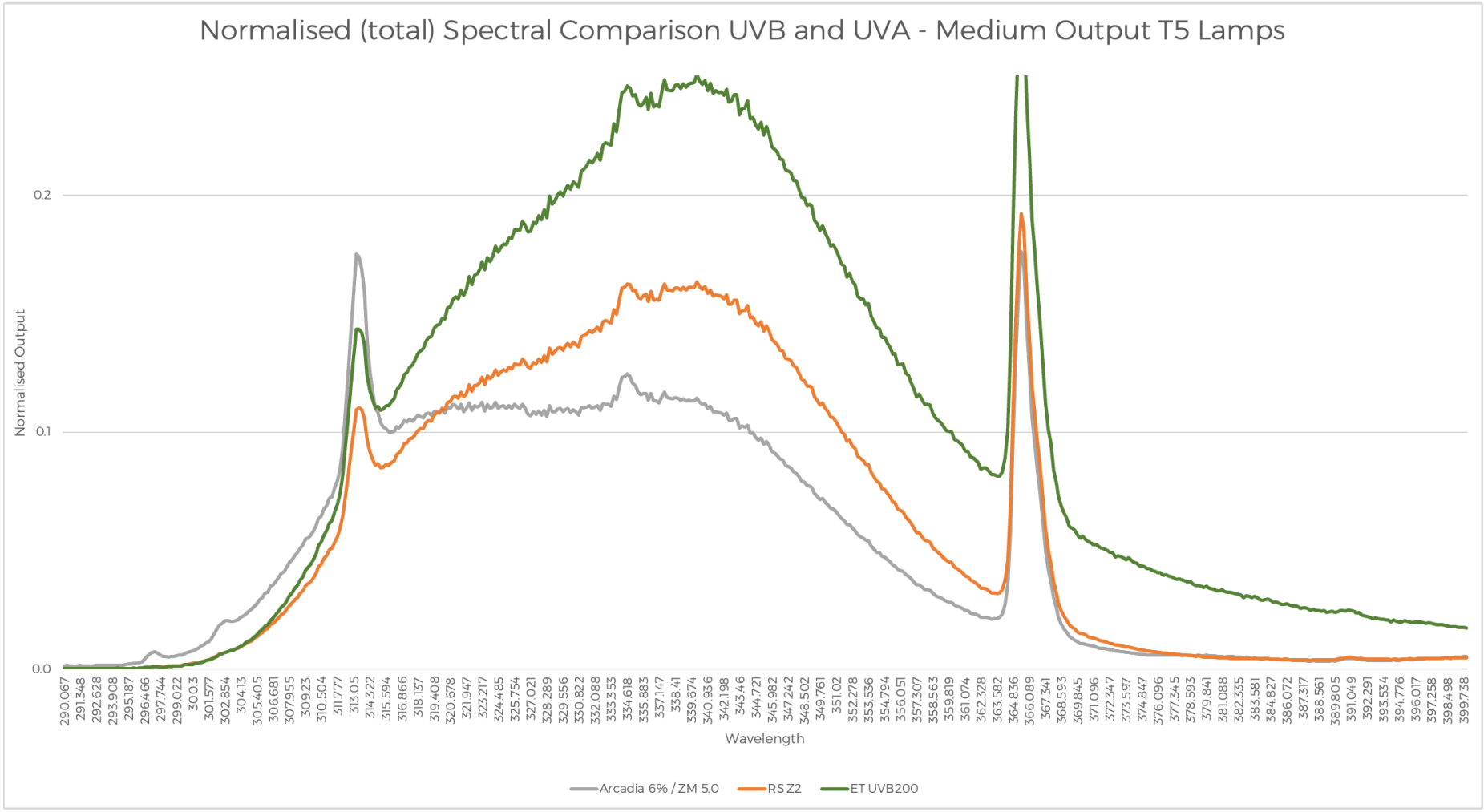
Medium Output Lamps

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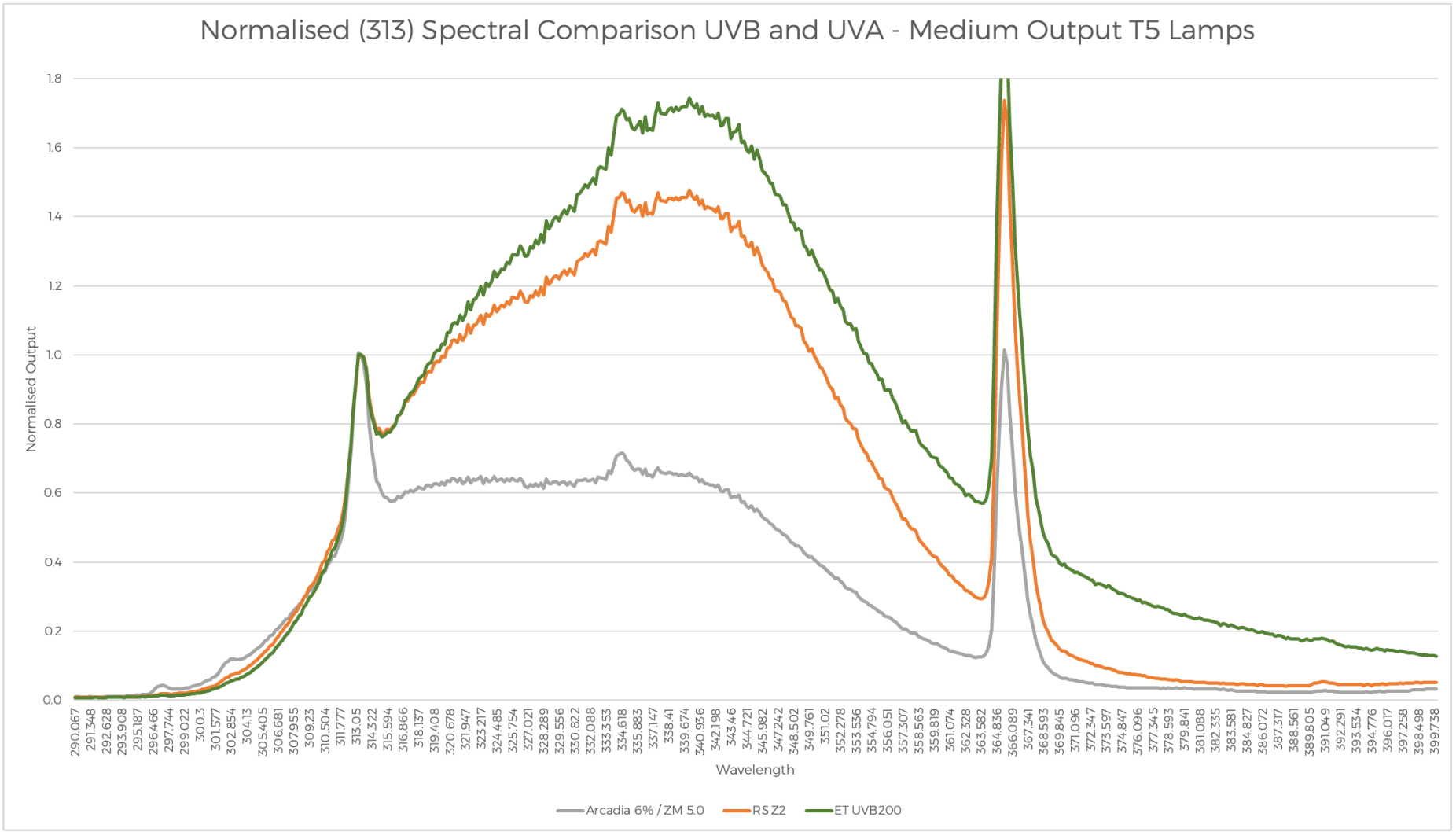
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Medium Output Lamps

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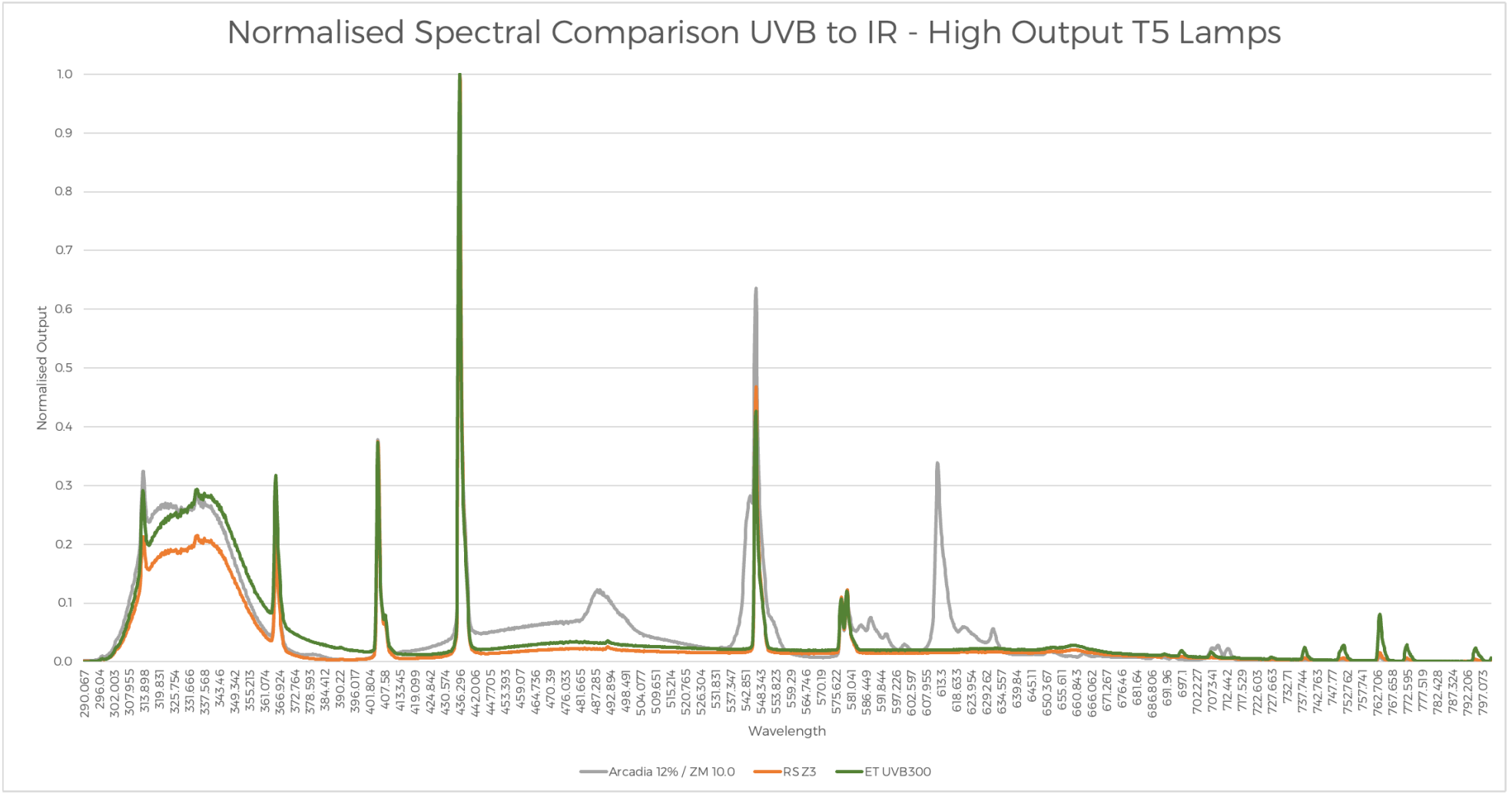


Medium Output Lamps

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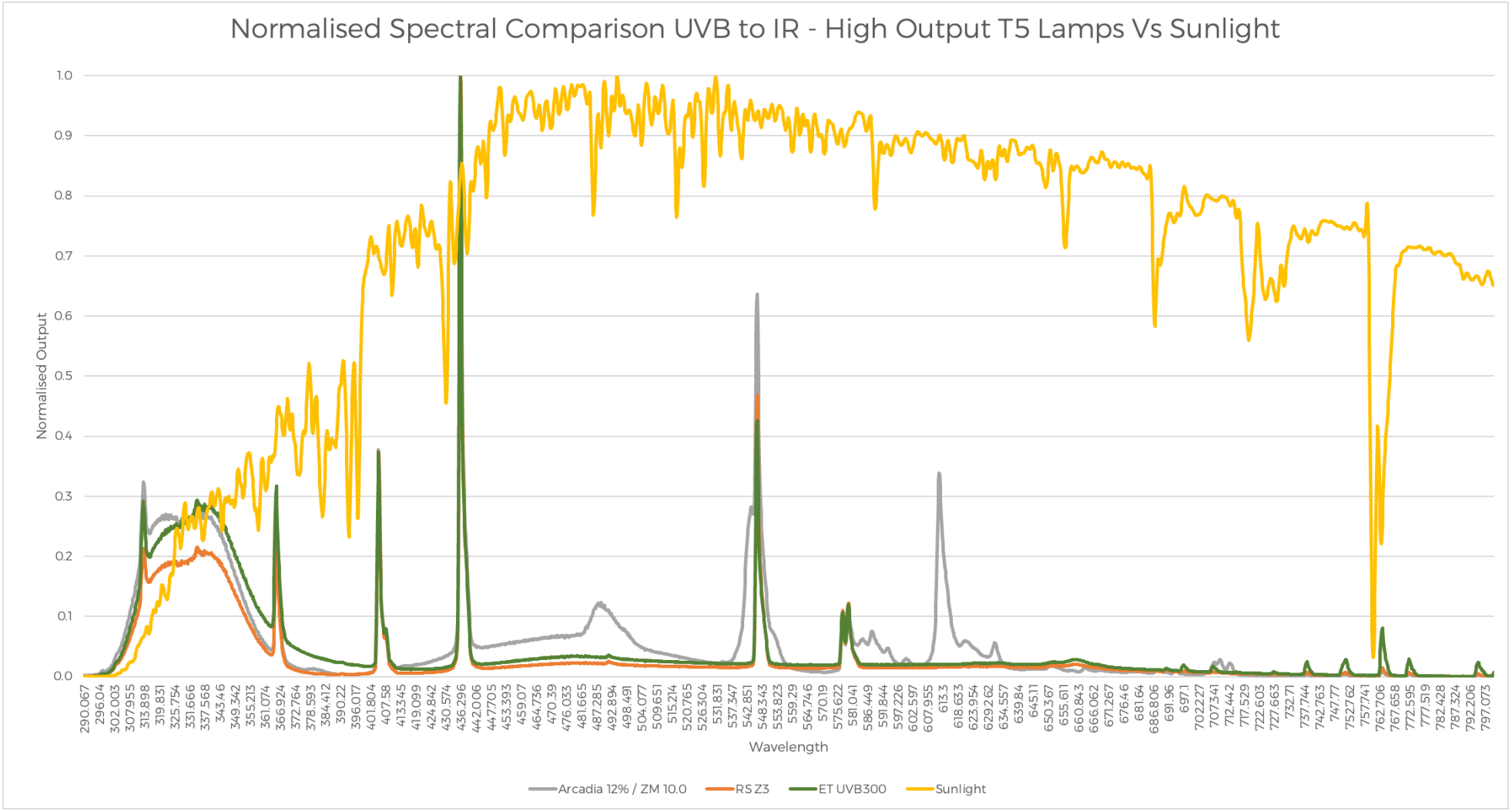
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High Output lamps



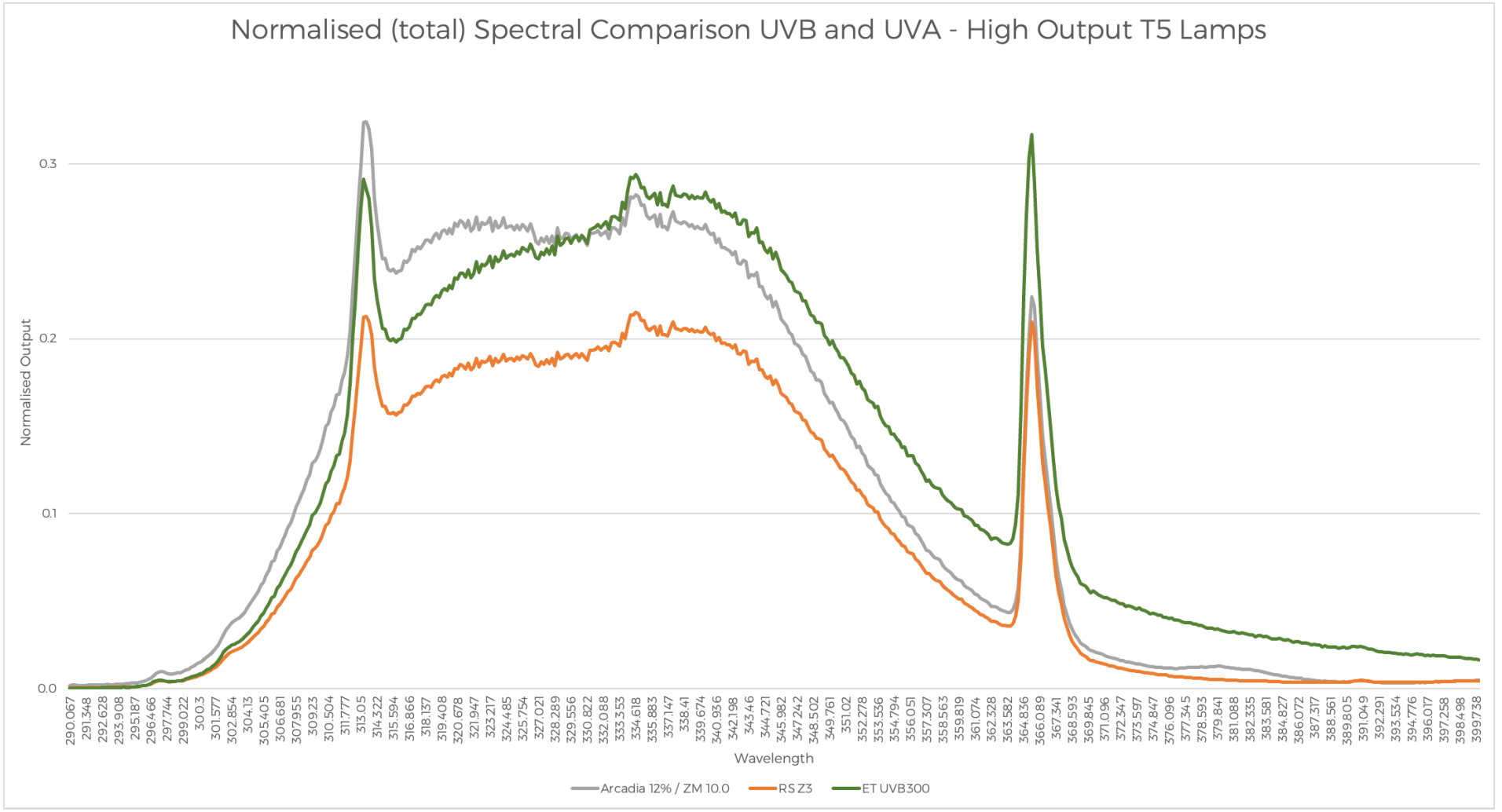
High Output Lamps

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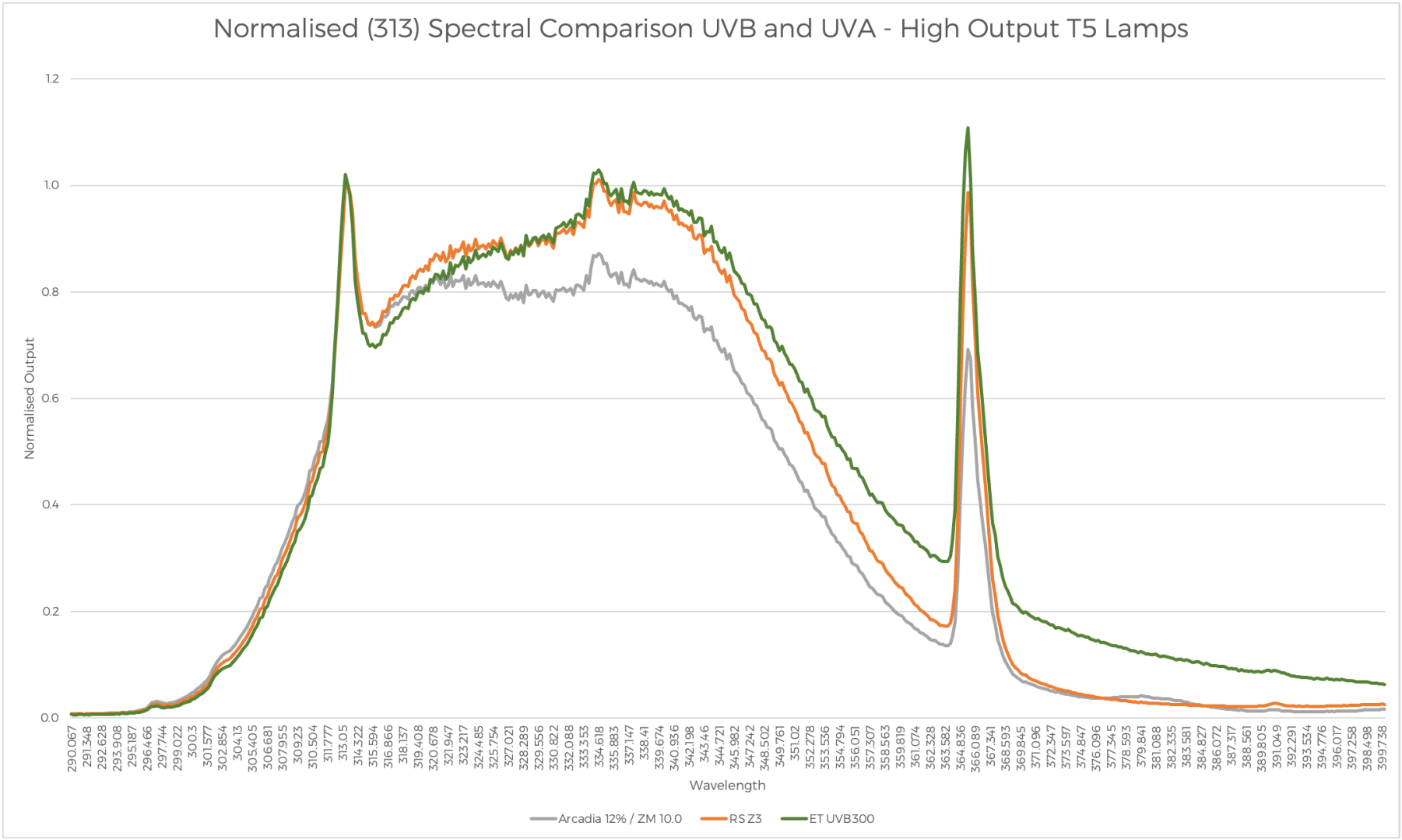
High Output Lamps

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High Output Lamps

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High Output Lamps

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