**Survey of Testing Laboratories for Lighting Products in Asia**

*The objectives of this survey are to:*

* *To help develop an understanding of the lighting testing capacity of laboratories in Asia*
* *To identify needs regarding testing of LED and CFL based products*
* *To help identify opportunities for harmonization, common accreditation and mutual recognition.*
* *Note – where insufficient space, please attach further information.*

*Do not worry if you cannot complete all questions, but please try and complete as many as possible. If you feel there is insufficient space to include all information (for example on the capabilities of different laboratories in Section 1), please feel free to copy the Section as many times as you wish.*

***When complete, please email our responses to*** ***info@lites.asia******.***

***Section 1: Lab Capacity***

**1. Availability: Are you aware of public/government testing facilities for lighting products in your country?**

**⬜ Yes** (Please provide how many and/or name of agency/ies) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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⬜ No (Please go to Question 6)

⬜ Don’t Know

**2. Capacity: Please indicate the types of lighting products that can be tested at this/these laboratory/ies (tick applicable option or options):**

**⬜** General Lighting Service Lamps (GLS) ⬜ Reflector Lamps (“R” type lamps)

**⬜** Gas Discharge Lamps (CFLs, FTL, Others) ⬜ LED-based Lamps

⬜ Lighting Fixtures (lamp + control gear + housing)

**3. General Lighting Testing Experience: Please indicate approximately how long this/these laboratory/ies has been operating, and the types of tests that can be conducted at this/these laboratory/ies (tick applicable option or options):**

Operating: \_\_\_\_\_\_\_\_ years.

**⬜** Safety (for example IEC 60968) ⬜ Light Quality (CRI, color x,y)

⬜ Performance (luminous flux, efficacy) ⬜ Reliability (Lifetime, Switching)

**4. LEDs Testing Experience: Please indicate approximately how long this/these laboratory/s has been testing LED-based products, and the types of tests that can be conducted at this/these laboratory/ies (tick applicable option or options):**

Operating: \_\_\_\_\_\_\_\_ years. (Please go to Question 5 if not applicable)

⬜ Safety (for example IEC 60825-1) ⬜ Light Quality (for example ANSI C78.377-2008)

⬜ Performance (for example IES LM-79-2008) ⬜ Reliability (for example IES LM-80-2008)

**5. CFL Testing Experience: Please indicate approximately how long this/these laboratory/ies has been testing CFL products, and the types of tests that can be conducted at this/these laboratory/ies (tick applicable option or options):**

Operating: \_\_\_\_\_\_\_\_ years. (Please go to Question 7 if not applicable)

**⬜** Safety (for example IEC 60968) ⬜ Performance (for example IEC60969)

**6. Accreditation: Please indicate the accreditation type and service capacity or level of this/these laboratory/ies:**

**Type of Accreditation: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. (Please go to Question 6 if not applicable)**

⬜ National/Local **⬜** International

⬜ Regional \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**7. Availability: Are you aware of private and/or third-party testing facilities for lighting products in your country?**

**⬜** Yes (please provide how many or name of facility/ies)

⬜ No (Please go to Question 11)

⬜ Don’t Know

**8. Capacity: Please indicate the types of lighting products that can be tested at this/these private/third party laboratory/ies (tick applicable option or options):**

⬜ General Lighting Service Lamps (GLS) ⬜ Reflector Lamps (“R” type lamps)

**⬜** Gas Discharge Lamps (CFLs, FTL, Others) ⬜ LED-based Lamps

⬜ Lighting Fixtures (lamp + control gear + housing)

**9. General Lighting Testing Experience: Please indicate approximately how long the laboratory/ies has been operating, and the types of tests that can be conducted at this/these laboratory/ies (tick applicable option or options):**

Operating: \_\_\_\_\_\_\_\_ years.

**⬜** Safety (for example IEC 60968) ⬜ Light Quality (CRI, color x,y)

⬜ Performance (luminous flux, efficacy) ⬜ Reliability (Lifetime, Switching)

**10. LEDs Testing Experience: Please indicate approximately how long the laboratory has been testing LED-based products, and the types of tests that can be conducted at this/these laboratory/ies (tick applicable option or options):**

Operating: \_\_\_\_\_\_\_\_ years. (Please go to Question 11 if not applicable)

⬜ Safety (for example IEC 60825-1) ⬜ Light Quality (for example ANSI C78.377-2008)

⬜ Performance (for example IES LM-79-2008) ⬜ Reliability (for example IES LM-80-2008)

**11. CFL Testing Experience: Please indicate approximately how long the laboratory has been testing CFL products, and the types of tests that can be conducted at this/these laboratory/ies (tick applicable option or options):**

Operating: \_\_\_\_\_\_\_\_ years. (Please go to Question 13 if not applicable)

**⬜** Safety (for example IEC 60968) ⬜ Performance (for example IEC60969))

**12. Accreditation: Please indicate the accreditation type and service capacity or level of this/these laboratory/ies**

Type of Accreditation: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. (Please go to Question 13 if not applicable)

⬜ National/Local **⬜** International

⬜ Regional \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**13. Are you aware of any local manufacturers or assemblers for lighting products in your country?**

**⬜** Yes

⬜ No (Please go to Question 15)

**14. Are you aware of the testing processes and laboratories used by local manufacturers?**

**⬜** Yes

⬜ No

***Section 2: LEDs Capacity***

**15. Does your government have plans to promote and/or adopt LEDs in the near term? If so, please indicate intended application areas for these plans (tick applicable option or options). If not, please go to Question 19:**

**⬜** Traffic Signal **⬜** Incandescent Replacement

**⬜** Street and Outdoor Lighting ⬜ Others

**16. What strategies will be (or are being) used for the promotion of these products? (tick applicable option or options):**

⬜ Selection and/or Procurement Guidelines **⬜** Product Standards and/or Labels

⬜ Codes (Such as building or lighting) ⬜ Subsidy or give-away

⬜ Others

**17. Do these plans and strategies include laboratory testing of LEDs products? If so, has a laboratory been identified or selected?**

⬜ Yes (Please provide additional information below if known)

Is the selected laboratory: **⬜** Local ⬜ Regional/International

Is the selected laboratory accredited: **⬜** Yes ⬜ No

⬜ No

**18. Do you think there is sufficient laboratory capacity for the testing of LEDs products required?**

⬜ Yes

⬜ No

(Please provide additional information below if known)

**⬜** Insufficient equipment ⬜ Insufficient staff training

⬜ Insufficient accreditation

***Section 3: CFL Capacity***

**19. Does your government have plans to promote and/or adopt CFLs in the near term? If so, please indicate intended application areas for these plans (tick applicable option or options). If not, please go to Question 23:**

**⬜** Incandescent Replacement ⬜ Others

**20. What strategies will be (or are being) used for the promotion of these products? (tick applicable option or options):**

⬜ Selection and/or Procurement Guidelines **⬜** Product Standards and/or Labels

⬜ Codes (Such as building or lighting) ⬜ Subsidy or give-away

⬜ Others

**21. Do these plans and strategies include laboratory testing of CFL products? If so, has a laboratory been identified or selected?**

⬜ Yes (Please provide additional information below if known)

Is the selected laboratory: **⬜** Local ⬜ Regional/International

Is the selected laboratory accredited: **⬜** Yes ⬜ No

⬜ No

**22. Do you think there is sufficient laboratory capacity for the testing of CFL products required?**

**⬜** Yes

⬜ No (Please provide additional information below if known)

⬜ Insufficient equipment ⬜ Insufficient staff training

⬜ Insufficient accreditation

***Section 4: Accreditation***

**23. Are there any regulations governing lighting testing laboratory practices in your country? (such as accreditation, quality standards, etc.)**

⬜ Yes (Please provide additional information if known)

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⬜ No

⬜ Don’t Know

**24. Has your government/agency considered what might be acceptable or required to enable you to make use of information from other laboratories (for example, receiving certification or compliance data from laboratories outside your country or using an alternative test method)?**

**⬜** Yes (Please provide additional information if known)

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⬜ No

**25. If there is an operating lighting test laboratory in your country, would you recommend that the laboratory obtain regional accreditation if such a scheme were available?**

⬜ Yes (Please provide details on the authority/responsible agency that would need to facilitate such a process)

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⬜ No

**26. If there is no operating lighting testing laboratory in your country, what/who would be the necessary steps for your country/agency to qualify an external laboratory?**

Please provide details on the authority/responsible agency that would need to facilitate such a process

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**27. Would your government/agency consider sharing/exchanging testing capacity with another country/laboratory in the region? (For example, accepting to test all CFLs products in your testing laboratory, and testing all LEDs products in another country/agency’s testing laboratory)**

⬜ Yes (Please provide details on the authority/responsible agency that would need to facilitate such a process)

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⬜ No

***Section 5: Cooperation and Contacts***

**28. Would your government/agency consider sharing/exchanging experience or training in lamp testing with another country/laboratory in the region? (For example, staff exchange, hosting or contributing to training workshop)**

⬜ Yes (Please provide details of possible contribution and on the authority/responsible agency that would need to participate in such a process)

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⬜ No

**29. Which relevant agencies, do you recommend, we contact as part of this survey. Preferably, agencies and contacts with experience on testing lighting products.** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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**Thank you for your time and cooperation**

Country: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Agency: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

⬜ Standard Development Agency ⬜ Testing Laboratory

⬜ Research & Development Agency ⬜ Energy Regulatory Agency

⬜ Engineering / Industry Association

⬜ Others (Please specify)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Optional

Person Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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***When complete, please email our responses to*** ***info@lites.asia******.***