

Lighting and Communications Team  
Appliance Energy Efficiency Branch  
Energy Division  
Department of the Environment and Energy  
GPO Box 787 CANBERRA, ACT 2601  
Att. Mr Richard Marson

Consultation RIS - Lighting

3.03.2017

Dear Mr Marson,

Further to your webinar last week and the joint submission prepared on our behalf by Lighting, Art and Science Pty Ltd, I have the following questions:

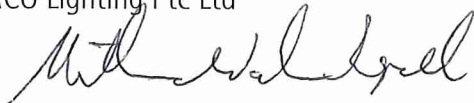
1. What is the definition of 'Directional' for integrated luminaires in LED MEPS, is there any consideration given for beam refinement or shaping?
2. If energy reduction is the objective of LED MEPS why are the targets based on efficacy rather than connected load for integrated luminaires in LED MEPS?
3. Are you aware of developments in the EU which are due for release later this year and the Lighting Europe submission which included a recommendation for connected load with consideration of CRI and beam spread?
4. Have you investigated the impact of LED MEPS on Section J of the NCC?

There are more concerns regarding compliance, registration and labelling for the integrated luminaire category of LED MEPS given the product flow is not generally through retail channels but I believe these are covered in the joint submission.

To demonstrate the perceived conflict between LED MEPS for integrated luminaires and energy reduction for habitable spaces I attach an example of the same space lit with two different approaches.

I look forward to your feedback and the possibility of working closer to maximise the effectiveness of LED MEPS for integrated luminaires.

Kind regards  
ERCO Lighting Pte Ltd



Nathan Wilson-Rynell  
Regional Manager Oceania  
encl.



LED MEPS Compliant

Luminaire: 12x 48003 18W Quintessence downlight 4000k DALI

Luminous flux of luminaire: 1798 lm

Connected load: 24W

Efficacy : 71 lm/W

Energy consumption = **4.57 W/m<sup>2</sup>** (63m<sup>2</sup>)



Efficient Visual Comfort

Luminaires:

6x 48032 24W Quintessence wallwasher 3000k DALI

Luminous flux of luminaire : 1319 lm

Connected load: 30W

Efficacy : **44 lm/W**

1x 75564 12W Cantax Flood 3000k DALI

Luminous flux of luminaire: 1031 lm

Connected load: 15W

Efficacy : 69 lm/W

1x 48038 2W Quintessence recessed spotlight 3000k DALI

Luminous flux of luminaire : 113 lm

Connected load: 5W

Efficacy : **23 lm/W**

Energy consumption = 3.17 W/m<sup>2</sup> (63m<sup>2</sup>)