
Privacy acknowledgement: I have read and acknowledge how Council will use and disclose my personal information.

*

Name: * Anthony Baillie

Email address: * baillie69@tpg.com.au

Please indicate which meeting you would like to make a submission to by selecting the appropriate button: * Future Melbourne Committee meeting

Date of meeting: * Tuesday 19 November 2019

Agenda item title: TP-2015-81 / A

*

Please write your submission in the space provided below and submit by no later than 10am on the day of the scheduled meeting. We encourage you to make your submission as early as possible.

It is really disappointing that the notice of the meeting for 19th November was conveyed in a letter dated Wednesday 13th November which was only delivered today in the afternoon 18th November which does not give a person enough time to prepare a proper submission.

As stated in my original submission the parking is a real issue now and will only be increased with the extra traffic that is going to be generated if you allow the proposed child care centre to proceed – you say in your notes that you are happy with the new proposed traffic flows that are going to be generated into The Ridgeway and the narrow lane way

running parallel to Epsom Rd tat can only handle one car at a time which will bank traffic up – the Council By – Laws officers are not policing the parking in the permit zones , double parking while picking people up or parking in the no standing while waiting for people now which blocks the traffics view while trying to enter Epsom Rd from The Ridgeway – what is going to be like with the extra traffic generated from the Child Minding Centre

I have attached "A" photo showing a bus parked in the no standing area – this is quite a common occurance for any function at the church weddings funerals functions (i would have attached more photos but this submission form wont let you load more than 2mb)

I strongly object to this proposed amendment as stated in my original objection

**Alternatively you
may attach your
written
submission by
uploading your
file here:**



[img_3062.jpg](#) 4.57 MB · JPG

Please indicate No
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would like to
address the Future
Melbourne
Committee or the
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(Section 223)
Committee in
support of your
submission:**

*(No opportunity is
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submitters to be
heard at Council
meetings.) **



Dysons

814

Dysons

P

SCOTT HALL

OPERATED BY
88 12345
11 12345

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*

Name: * Jane Murphy

Email address: * janemurf@gmail.com

Please indicate which meeting you would like to make a submission to by selecting the appropriate button: * Future Melbourne Committee meeting

Date of meeting: * Tuesday 19 November 2019

Agenda item title: Re Planning Permit Application : TP-2015-81 /A

*

Please write your submission in the space provided below and submit by no later than 10am on the day of the scheduled meeting. We encourage you to make your submission as early as possible.

Dear Committee,

Thank you for considering my submission to your committee on the amended Planning Permit Application : TP-2015-81 /A.

Before I commence, I wish to inform you that letter regarding this meeting was received in my post office box Kensington only yesterday (18/11/19).

I consider this to be inadequate notice of the meeting, and does not allow enough time to prepare a submission. Because of this late notice, I am unfortunately unable to attend the meeting due to prior commitments.

May I suggest that, in future, Council also make use of digital/electronic forms of communication to stakeholders?

I have a concern regarding the use of the laneway at the rear of the proposed development.

I suspect that most of the customers will be arriving by car.

My house backs onto this laneway, so I have past experience of a lot of traffic congestion caused by congregants of the church who often stop and park their cars in this lane, thus blocking access for others. There is often a queue of cars at either end of the laneway waiting for access from Kensington rd and The Ridgeway.

There is also considerable local pedestrian traffic along this section of the lane—especially during school start/finish times. I believe that this was not considered in the original Planning submission.

I would like to know if Council is planning to change the traffic direction so that the laneway section between The Ridgeway and Kensington road becomes one-way traffic to accommodate the entry/exit traffic of the underground car park and prevent congestion from cars entering from Kensington road?

I believe that the extra burden of vehicle access 'hotspot' times for the childcare facility, (during what is already a very busy traffic time along Epsom road) will cause flow-on congestion along Epsom road as cars wait to turn onto The Ridgeway.

Also, cars departing the carpark will have to queue (and idle!) in the laneway as they wait for access to turn either right or left onto Kensington road (which will be difficult because of the traffic-light cycle at the Macaulay road intersection).

I am disappointed that the front (Epsom road) facade will now include an 1800mm fence in order to accommodate the extra open space requirement of the childcare facility. This is a major departure from the original 'open' design, and should be reconsidered.

Finally, I object to the intensification of this site which is situated in a residential area already heavily burdened by existing vehicle traffic noise and pollution.

Thank you for your consideration.

Please indicate **No**
whether you
would like to
address the Future
Melbourne
Committee or the
Submissions
(Section 223)
Committee in
support of your

submission:

*(No opportunity is
provided for
submitters to be
heard at Council
meetings.) **

Privacy acknowledgement: *

I have read and acknowledge how Council will use and disclose my personal information.

Name: *

Kerstin Thompson

Email address: *

kta@kerstinthompson.com

Please indicate which meeting you would like to make a submission to by selecting the appropriate button: * Future Melbourne Committee meeting

Date of meeting: *

Tuesday 19 November 2019

Agenda item title: *

Report to the Future Melbourne Planning Committee

Please write your submission in the space provided below and submit by no later than 10am on the day of the scheduled meeting.

We support the Draft City of Melbourne Design Excellence Program 2019–2030.

We encourage you to make your submission as early as possible.

Please indicate whether you would like to address the Future Melbourne Committee or the Submissions (Section 223) Committee in support of your submission: No

*(No opportunity is provided for submitters to be heard at Council meetings.) **

Privacy acknowledgement: I have read and acknowledge how Council will use and disclose my personal information.

*

Name: * Shelley Penn

Email address: * enquiry@shelleypenn.com.au

Please indicate which meeting you would like to make a submission to by selecting the appropriate button: * Future Melbourne Committee meeting

Date of meeting: * Tuesday 19 November 2019

Agenda item title: * 6.2 Design Excellence

*

Please write your submission in the space provided below and submit by no later than 10am on the day of the scheduled meeting. We encourage you to make your submission as early as possible.

Dear CoM Future Melbourne Committee,

I write in support of this outstanding proposal.

Melbourne has been recognised globally as a 'design hot spot' and a wonderful city in which to live and to visit. In recent years the quality of inner urban Melbourne has deteriorated with an increase in poor quality buildings that significantly diminish the experience and presentation of the city.

The CoM planning scheme amendment C308 was a strong initiative that will assist in supporting better outcomes and limiting the worst proposals. However more is needed to encourage, recognise and support a culture that recognises

the importance of design quality in the urban environment for a socially inclusive, culturally rich, sustainable, thriving and economically vibrant city in which people feel connected, safe and welcome.

Planning requirements cannot ensure good design alone, and must be supported by robust processes and the right expertise to assess and champion design quality. The Design Excellence proposals will go a long way toward that, and are very much needed in a time of rapid population growth in the context of climate change.

With thanks and congratulations for developing and considering such a well-conceived, rigorously researched and robust proposal.

Shelley Penn
Architect LFRAIA

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whether you
would like to
address the Future
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Submissions
(Section 223)
Committee in
support of your
submission:

*(No opportunity is
provided for
submitters to be
heard at Council
meetings.)**

Privacy acknowledgement: I have read and acknowledge how Council will use and disclose my personal information.

*

Name: * Simon Jeppesen

Email address: * jeppesen.simon@gmail.com

Please indicate which meeting you would like to make a submission to by selecting the appropriate button: * Future Melbourne Committee meeting

Date of meeting: * Tuesday 19 November 2019

Agenda item title: * 6.2 City of Melbourne Design Excellence Program 2030

*

Please write your submission in the space provided below and submit by no later than 10am on the day of the scheduled meeting. We encourage you to make your submission as early as possible.

I would like to write in support of the proposed 'Design Excellence Program 2030'

Good quality design is imperative to the liveability of the city. The built environment affects everyone who inhabits a space, walks past it or views it from a far.

The City of Melbourne needs to implement the Design Excellence Program to ensure that the citizen of Melbourne get

the best environment now, and we critical planning decisions are made with due diligence, as they will last for years, decades or even longer.

Melbourne has an incredible design culture and if encouraged properly it has the opportunity to continue to build a great place to live.

The City of Melbourne's proposed DEP is the right way to encourage this and I hope to see it implemented.

Sincerely,
Simon Jeppesen

Please indicate **No**
whether you
would like to
address the Future
Melbourne
Committee or the
Submissions
(Section 223)
Committee in
support of your
submission:

*(No opportunity is
provided for
submitters to be
heard at Council
meetings.)**

Privacy acknowledgement: I have read and acknowledge how Council will use and disclose my personal information.

*

Name: * Simone Bliss

Email address: * simone@sbla.net.au

Please indicate which meeting you would like to make a submission to by selecting the appropriate button: * Future Melbourne Committee meeting

Date of meeting: * Tuesday 19 November 2019

Agenda item title: Design excellence program

*

Please write your submission in the space provided below and submit by no later than 10am on the day of the scheduled meeting. We encourage you to make your submission as early as possible.

I wish to express my support for the Design Excellence Program being put forward at tomorrow's Future Melbourne Committee.

The proposed programs and initiatives outlined in this document are crucial to ensuring that Melbourne is seen as a city of design quality and liveability.

Good design is often invisible – particularly when it comes to urban design and landscape architecture. The design hand is so subtle that it is often unnoticed. Design within the city particularly projects that are led by developers has the opportunity to be improved. Design review panels offer an excellent way of allowing projects to be discussed and learnt from, awards offer incentives for the design profession and design competitions are an excellent platform to explore innovative ideas with the city fabric.

Please indicate No
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(Section 223)
Committee in
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submission:**

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submitters to be
heard at Council
meetings.) **

Privacy acknowledgement: *

I have read and acknowledge how Council will use and disclose my personal information.

Name: *

Tania Davidge

Email address: *

tania.davidge@openhaus.org

Please indicate which meeting you would like to make a submission to by selecting the appropriate button: * Future Melbourne Committee meeting

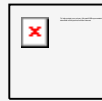
Date of meeting: *

Tuesday 19 November 2019

Agenda item title: *

6.2 City of Melbourne Design Excellence Program 2030

Alternatively you may attach your written submission by uploading your file here:



[taniadavidge_submissionnov19_agenda_item_6.2.pdf](#) 111.87 KB

• PDF

Please indicate whether you would like to address the Future Melbourne Committee or the Submissions (Section 223) Committee in support of your submission:

No

*(No opportunity is provided for submitters to be heard at Council meetings.) **

19 November 2019

Future Melbourne Committee
City of Melbourne
240 Little Collins Street
MELBOURNE VIC 3000

Dear Lord Mayor Sally Capp and City of Melbourne Councillors,

**Re: Future Melbourne Committee, 19 November 2019: Agenda Item 6.2
Draft City of Melbourne Design Excellence Program 2030**

As an architect and a passionate advocate for design excellence in the urban realm (president of the public space advocacy group, Citizens for Melbourne, and chair of the Australian Institute of Architects National Policy committee), I write in support of Agenda Item 6.2 and request that the Future Melbourne Committee endorse the Draft City of Melbourne Design Excellence Program 2019-2030 for consultation.

Melbourne has an international reputation for design excellence. The city's design and architecture culture is unique, and this culture has been cultivated over many years by many thoughtful practitioners. However, this culture faces a challenge—the city is rapidly growing and with this growth comes rapid change to the built form of our city. In this context, goodwill alone will not be enough to sustain our vibrant design culture.

Design excellence needs to be clearly defined and it also needs to be incentivised—we need to give people a reason to achieve it. Processes that foster design excellence in relation to the community and the people who build and shape our city can only lift the bar. To this end implementing a Design Excellence program that comprises Leadership, Awards, Design Review and Design Competitions is an excellent place to start.

I look forward to participating in the consultation process for the Draft City of Melbourne Design Excellence Program.

Yours sincerely,

Tania Davidge
Architect, RAIA

Privacy acknowledgement: I have read and acknowledge how Council will use and disclose my personal information.

*

Name: * Victoria Reeves

Email address: * vr@kennedynolan.com.au

Please indicate which meeting you would like to make a submission to by selecting the appropriate button: * Future Melbourne Committee meeting

Date of meeting: * Tuesday 19 November 2019

Agenda item title: * 6.2 Draft City of Melbourne Design Excellence Program

*

Please write your submission in the space provided below and submit by no later than 10am on the day of the scheduled meeting. We encourage you to make your submission as early as possible.

We're writing to express our support and enthusiasm for the endorsement of the Draft City of Melbourne Design Excellence Program.

We believe this program:

- includes fantastic initiatives to harness the quality and passion of the city's design community
- will further emphasise and communicate the value of quality in design in the city to the wider community
- will surely result in the increased quality, longevity, sustainability & consistency of the built fabric to the great benefit of Melbourne City Council

Privacy acknowledgement: I have read and acknowledge how Council will use and disclose my personal information.

*

Name: * Tony Penna

Email address: * president@southbankresidents.org.au

Please indicate which meeting you would like to make a submission to by selecting the appropriate button: * Future Melbourne Committee meeting

Date of meeting: * Tuesday 19 November 2019

Agenda item title: * Agenda Item 6.3 Planning Scheme Amendment C308 Urban Design in the Central City and Southbank

Please write your submission in the space provided below and submit by no later than 10am on the day of the scheduled meeting. We encourage you to make your submission as early as possible. Please find attached.
I would like to speak to this submission.

Alternatively you
may attach your
written



submission by
uploading your
file here:

[submission_fmc_meeting_no._68_19_nov_19_agenda_item_6.3_planning_scheme_amendment_c308_urb](#)

154.16 KB · PDF

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Melbourne
Committee or the
Submissions
(Section 223)
Committee in
support of your
submission:

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provided for
submitters to be
heard at Council
meetings.) **



PO Box 1195 South Melbourne VIC 3205
Phone: 03 9028 2774
ABN 58 986 783 321 Cert. of Inc. A0036364B
info@southbankresidents.com.au
www.southbankresidents.com.au

Submission to Future Melbourne Committee

City of Melbourne, Council Meeting Room, Melbourne Town Hall Administration Building
19 Nov 2019, 5.30pm – Meeting No.68
Agenda Item 6.3 Planning Scheme Amendment C308 Urban Design in the Central City and Southbank

Southbank Residents Association whole-heartedly supports this amendment to the planning scheme.

The residents of Southbank have long been concerned about the direction their community is destined to head and the impacts of livability and amenity through never-ending development of epic proportions.

While this amendment certainly goes a long way to addressing many of these issues, we still feel it is much too late for Southbank. While this amendment will force compliance of developers to consider the public realm, our estimation is that 90% of Southbank is already developed or has a development application already approved and as such this change to the planning scheme will have little impact on the future outlook of Southbank. We only wish this review happened a decade earlier.

In any case, we understand the importance of this amendment for the broader community and so we engaged with a planning consultant, at significant cost to the Association, to guide our feedback for the consultation process and the panel hearing. We also reached out to the community for their views to shape our feedback, which garnered great interest and input.

Notwithstanding, there is a lot of good outcomes from the amendment and we certainly look forward to them being adopted within the remaining undeveloped lots within Southbank, to provide a lasting, practical and worthwhile public realm.

Southbank Residents Association thanks the City of Melbourne for taking the lead with this initiative.

Tony Penna
President
Southbank Residents Association

Privacy acknowledgement: *

I have read and acknowledge how Council will use and disclose my personal information.

Name: *

Anthony Ferguson

Email address: *

toinetf@yahoo.com

Please indicate which meeting you would like to make a submission to by selecting the appropriate button: * Future Melbourne Committee meeting

Date of meeting: *

Tuesday 19 November 2019

Agenda item title: *

Notice of Motion Obtrusive effects of lighting

Please write your submission in the space provided below and submit by no later than 10am on the day of the scheduled meeting.

Please support the motion to progress to fulfil the Royal Park Master Plan to protect nocturnal fauna.

We encourage you to make your submission as early as possible.

Please indicate whether you would like to address the Future Melbourne Committee or the Submissions (Section 223) Committee in support of your submission:

No

*(No opportunity is provided for submitters to be heard at Council meetings.) **

Privacy acknowledgement: I have read and acknowledge how Council will use and disclose my personal information.

*

Name: * Fiona Reed

Email address: * freedom7777777@hotmail.com

Please indicate which meeting you would like to make a submission to by selecting the appropriate button: * Future Melbourne Committee meeting

Date of meeting: * Tuesday 19 November 2019

Agenda item title: LIGHTING UPDATE

*

Please write your submission in the space provided below and submit by no later than 10am on the day of the scheduled meeting. We encourage you to make your submission as early as possible.

I'm writing to support the motion being put forward by the COM. I heartily commend the Councillors for putting this motion up as I see it as being extremely important for the environment and its animals as well as for the health and wellbeing of we humans living and passing through the area.

I particularly support the special conditions of a dark night sky being put in place for the sensitive and highly significant places like Royal Park and the Melbourne Observatory which so enrich our souls. Thank you from the bottom of my heart and on behalf of all the future generations who will be so deeply enriched by the implementation

of the highly honourable policies.

Please indicate No
whether you
would like to
address the Future
Melbourne
Committee or the
Submissions
(Section 223)
Committee in
support of your
submission:

*(No opportunity is
provided for
submitters to be
heard at Council
meetings.) **

Privacy acknowledgement: I have read and acknowledge how Council will use and disclose my personal information.

*

Name: * Kaye Oddie

Email address: * friendsofroyalpark@gmail.com

Please indicate which meeting you would like to make a submission to by selecting the appropriate button: * Future Melbourne Committee meeting

Date of meeting: * Tuesday 19 November 2019

Agenda item title: Notice of Motion, Cr. Leppert: Obtrusive effects of outdoor lighting

*

Please write your submission in the space provided below and submit by no later than 10am on the day of the scheduled meeting. We encourage you to make your submission as early as possible.

The Friends of Royal Park, Parkville would like to support the motion by Cr. Leppert (Item 7.1) on Obtrusive effects of outdoor lighting. The Friends of Royal Park has long and consistently sought to mitigate detrimental environmental impacts of outdoor lighting on Royal Park.

Royal Park is a 'dark park' as recognised in the Council's Public Lighting Strategy 2013. The updated Australian Standard AS/NZS 4282:2019 for Control of the obtrusive effects of outdoor lighting now covers environmentally sensitive areas. This will enable more defined support for the Council's Public Lighting Strategy as it applies to Royal

Park and, in turn, for the Council's Public Lighting Strategy to be consistent with the revised AS Standard.

The Friends of Royal Park therefore supports the proposed motion.

Please indicate No

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(Section 223)
Committee in
support of your
submission:**

*(No opportunity is
provided for
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meetings.) **

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*

Name: * Kaye Oddie

Email address: * friendsofroyalpark@gmail.com

Please indicate which meeting you would like to make a submission to by selecting the appropriate button: * Future Melbourne Committee meeting

Date of meeting: * Tuesday 19 November 2019

Agenda item title: Notice of Motion, Cr. Leppert: Obtrusive effects of outdoor lighting

*

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Royal Park is a 'dark park' as recognised in the Council's Public Lighting Strategy 2013. The updated Australian Standard AS/NZS 4282:2019 for Control of the obtrusive effects of outdoor lighting now covers environmentally sensitive areas. This will enable more defined support for the Council's Public Lighting Strategy as it applies to Royal

Park and, in turn, for the Council's Public Lighting Strategy to be consistent with the revised AS Standard.

The Friends of Royal Park therefore supports the proposed motion.

Please indicate No

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meetings.) **

17 November 2019

Attention: Future Melbourne Committee
Council Meeting Room, Level 2, Town Hall Administration Building

RE: City of Melbourne Public Lighting of Royal Park, Melbourne.

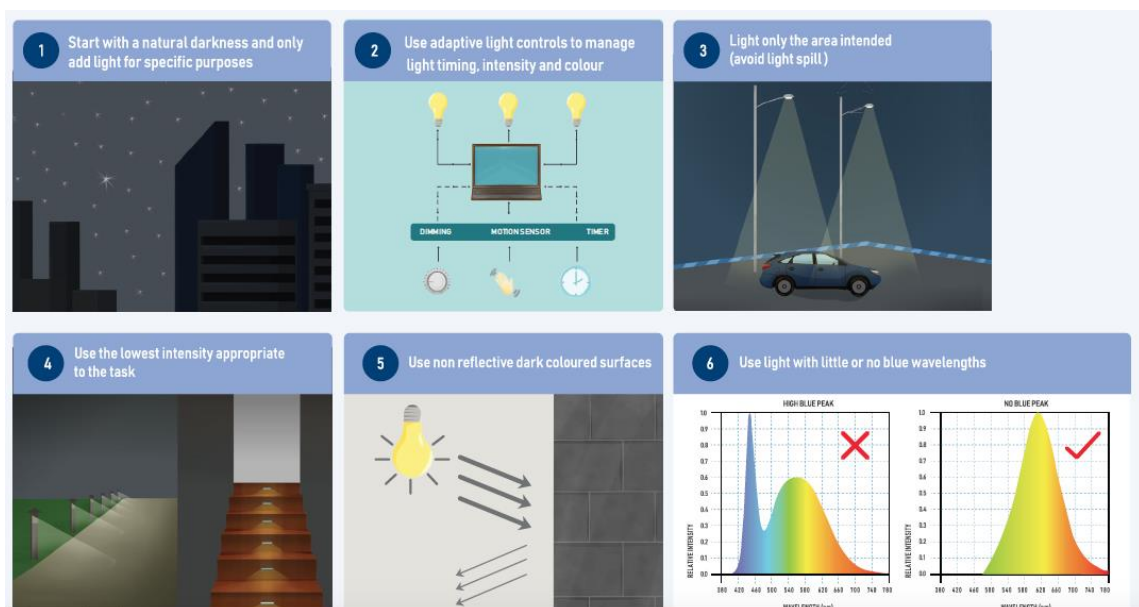
On behalf of the Australasian Dark Sky Alliance, I write now supporting the motion to be discussed 19 November, regarding Public Lighting of the Royal Park and the vicinity of the Melbourne Observatory.

ADSA is a not for profit organisation founded to educate, mitigate and reduce the detrimental effects of artificial light at night. We keenly support actions to use light wisely at night, with our work supported by lighting industry specialists, scientists, astronomers and businesses alike.

Anything in over-abundance is waste. Whether it is financial or environmental, this waste is expensive. The recently updated to AS/NZS 4282, 'Control of the Obtrusive Effects of Outdoor Lighting', April 2019 reflects the developments of lighting technology and the growing use of light in urban areas. However, it is for a smart Councils to implement, understand and update existing policies and fixtures, to ensure that light does not stress to the environment; manmade, or otherwise.

In addition to the Australian New Zealand Standards, we would like to draw your attention to the [Australian Federal Guidelines for Light Pollution](#). The *National Light Pollution Guidelines* aim to raise awareness of the potential impacts of artificial light on wildlife and provide a framework for assessing and managing these impacts around susceptible listed wildlife. They establish six key principles for light management, which we encourage you to use, when designing future lighting policies for the park:

1. Start with natural darkness and only add light for a specific purpose
2. Use adaptive light controls to manage light timing, intensity and colour
3. Light only the area intended (avoid light spill)
4. Use the lowest intensity appropriate to the task
5. Use non reflective dark coloured surfaces
6. Use light with little or no blue wavelengths



Finally,
we
would

like to highlight the significant opportunity for Royal Park to become an Urban Night Sky Reserve, with the [International Dark Sky Association](#) (IDA).

An IDA Urban Night Sky Place is a municipal park, open space, observing site, or other similar property near or surrounded by large urban environs whose planning and design actively promote an authentic nighttime experience in the midst of significant artificial light. By virtue of their characteristics, these sites do not qualify for designation within any other International Dark Sky Places category. However, they are worthy of recognition for their efforts to educate the public on the benefits of proper outdoor lighting that ensures public safety while minimizing potential harm to the natural nighttime environment.

Under the suite of dark sky places offered by the IDA, this relatively new designation, would provide an opportunity for all stakeholders of the park to come together and mutually benefit from the national heritage and significant environmental attributes and join a strong international movement. More so, it would establish the City of Melbourne as sustainability-minded Council, **both day and night**.

We would be happy to assist with any questions or future projects, in any way.

Kind Regards



CEO and Founder
Australasian Dark Sky Alliance

Privacy acknowledgement: *

I have read and acknowledge how Council will use and disclose my personal information.

Name: *

Marnie Ogg

Email address: *

info@australasiandarkskyalliance.org

Please indicate which meeting you would like to make a submission to by selecting the appropriate button: * Future Melbourne Committee meeting

Date of meeting: *

Tuesday 19 November 2019

Agenda item title: *

Agenda Item 7.1 – Public Lighting of Royal Botanical Garden/Melbourne Observatory

Alternatively you may attach your written submission by uploading your file here:



[melbourne_observatory.pdf](#) 171.38 KB · PDF

Please indicate whether you would like to address the Future Melbourne Committee or the Submissions (Section 223) Committee in support of your submission: Yes

*(No opportunity is provided for submitters to be heard at Council meetings.) **

Subject: SUBMISSION TO COUNCIL OF CITY OF MELBOURNE RE THE MOTION RE LIGHTING

SUBMISSION TO COUNCIL OF THE CITY OF MELBOURNE RE
THE MOTION RE LIGHTING

Dear Councillors and Lord Mayor, Sally Capp

I support the motion regarding outdoor lighting in the City of Melbourne that has been proposed by Rohan Leppert. This will reduce the obtrusive effect of outdoor lighting.

I urge you all to support this motion as it will make Melbourne more eco-friendly and protect nature and make a better environment.

Yours sincerely

Mary Drost OAM
Convenor
Planning Backlash Inc
Coalition of 300 Resident Groups
Camberwell Vic 3124
Tel 0401834899
drostmary@gmail.com

Privacy acknowledgement: *

I have read and acknowledge how Council will use and disclose my personal information.

Name: *

Russell Cockman

Email address: *

president@darkskyvic.org

Please indicate which meeting you would like to make a submission to by selecting the appropriate button: * Future Melbourne Committee meeting

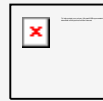
Date of meeting: *

Tuesday 19 November 2019

Agenda item title: *

7.1 Notice of Motion, Cr Leppert: Obtrusive effects of outdoor lighting

Alternatively you may attach your written submission by uploading your file here:



[submission_to_mcc_re_4282_rleppert_motion.docx](#) 90.47 KB ·

DOCX

Please indicate whether you would like to address the Future Melbourne Committee or the Submissions (Section 223) Committee in support of your submission:

No

*(No opportunity is provided for submitters to be heard at Council meetings.) **

I write as President of the IDAVic Inc, <http://www.darkskyvic.org/>, a voluntary organisation affiliated with the International Dark Sky Association Inc (IDA). Our objective is to work with Government and authorities to foster outcomes that:

- preserve and protect the night through environmentally responsible outdoor lighting
- enhance the value to human well-being of experiencing the dark sky at night
- increase awareness of the impacts on human health from inappropriate use of light at night.

IDAVic commends Cr Leppert for raising the matter of inclusion of AS/NZS 4282: 2019 in Council's lighting policies and strategies. Simply by the addition of this recently-revised Standard to the existing lists of Australian Standards for lighting in the relevant documents (including the Building Code), the Melbourne City Council can expect:

- a reduction in greenhouse gas emissions,
- an improvement in the health and wellbeing of residents and visitors,
- a positive outcome for biodiversity conservation,
- a reduction in glare and light pollution,
- a slight reduction in crime at night, and
- no adverse effects on road safety at night.

While there are no current statutes specifically enforcing AS/NZS 4282:2019 "Control of the obtrusive effects of outdoor lighting", recent revision of the Standard from a guideline document to a *requirements* document implies that the Standard is intended to address known risks associated with obtrusive outdoor lighting.

We believe that the overarching principles empowering AS/NZS 4282:2019 are contained in ISO 31000:2018 - standards which can be applied to a wide range of activities, including strategies and decisions, operations, processes, *functions*, projects, products, *services* and *assets*. Of key import is that ISO 31000:2018 can be applied to *any type of risk*, whatever its *nature*, whether having positive or negative consequences.

There is a wealth of peer-reviewed evidence in the literature that substantiate the points made above, but space limitations prevent a detailed review. IDAVic welcomes the opportunity to collaborate in formulating policy fostering outcomes benefiting the community's health, and of the environment, into the future.

Yours faithfully

Russell Cockman

Dr. Russell Cockman
President, IDAVictoria Inc.

president@darkskyvic.org



Privacy acknowledgement: I have read and acknowledge how Council will use and disclose my personal information.

*

Name: * Andrew Yen

Email address: * a.c.l.yen@gmail.com

Please indicate which meeting you would like to make a submission to by selecting the appropriate button: * Future Melbourne Committee meeting

Date of meeting: * Tuesday 19 November 2019

Agenda item title: 7.1 Notice of Motion, Cr Leppert: Obtrusive effects of outdoor lighting

*

Please write your submission in the space provided below and submit by no later than 10am on the day of the scheduled meeting. We encourage you to make your submission as early as possible.

I write in support of Cr Leppert's motion.

The effects of outdoor lighting are generally positive for those for whom the lighting is intended (maybe with the exception of fixtures that have excessive glare) but the unintended detrimental effects on neighbours, fauna and the general public are often ignored. the new standard AS4282-19 makes an attempt to address these problems (which include health, safety and ecology) and considers the needs of the public who require or appreciate a dark environment without light pollution.

It is important for MCC to keep abreast of the standards in this area, for the sake of the public and the environment.

Please indicate No
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*(No opportunity is
provided for
submitters to be
heard at Council
meetings.) **

Privacy acknowledgement: I have read and acknowledge how Council will use and disclose my personal information.

*

Name: * Barry Clark

Email address: * bjc@alphalink.com.au

Please indicate which meeting you would like to make a submission to by selecting the appropriate button: * Future Melbourne Committee meeting

Date of meeting: * Tuesday 19 November 2019

Agenda item title: 7.1 Notice of Motion, Cr Leppert: Obtrusive effects of outdoor lighting

*

Please write your submission in the space provided below and submit by no later than 10am on the day of the scheduled meeting. We encourage you to make your submission as early as possible.

I commend Cr Leppert for raising the matter of inclusion of AS/NZS 4282: 2019 in Council's lighting policies and strategies. Simply by addition of this recently revised Standard to the existing lists of Australian Standards for lighting in the relevant documents (including the Building Code), Council can expect a reduction of greenhouse gas emissions, an improvement in the health and wellbeing of residents and visitors, a positive outcome for biodiversity conservation, a reduction in glare and light pollution, a slight reduction in crime at night, and no adverse effects on road safety at night.

Please indicate whether you would like to address the Future No

Melbourne
Committee or the
Submissions
(Section 223)
Committee in
support of your
submission:

*(No opportunity is
provided for
submitters to be
heard at Council
meetings.) **

Privacy acknowledgement: I have read and acknowledge how Council will use and disclose my personal information.

*

Name: * Greg Moore

Email address: * gmmoore@unimelb.edu.au

Please indicate which meeting you would like to make a submission to by selecting the appropriate button: * Future Melbourne Committee meeting

Date of meeting: * Tuesday 19 November 2019

Agenda item title: * Obtrusive effects of outdoor lighting

*

Please write your submission in the space provided below and submit by no later than 10am on the day of the scheduled meeting. We encourage you to make your submission as early as possible.

Light is one of the key elements that affects tree growth and development. The best known role is in photosynthesis, arguably the most important chemical reaction on the planet. It made earth the planet that we know today.

Wavelengths of light that humans cannot see also effect plant growth and development. For example, infrared light can influences many aspects of plant growth, such as flowering. Two properties of light that are important for tree growth are the quality of the light (its colour or wavelength and its intensity (the quantity of light). Light shapes trees, effects their growth and their phenology (when they come into leaf, flower or shed leaves and flowers). The wrong colour of light or too much light can cause problems for the tree. It is possible for trees to be affected by light pollution and the timing of light exposure (day or night) can also influence tree growth.

While the quality and intensity of street lighting causes little if any damage to most tree species, some trees are exposed to high light levels for periods of 24 hours because of street and security lighting. In such cases, the damage is usually localised to part of the canopy. Trees such as maples, birches and even the plane tree may show signs of leaf chlorosis (yellowing) as a result of excessive exposure to light.

I am pleased to support the motion and support the City of Melbourne resolving to comply with AS/NZS 4282, 'Control of the Obtrusive Effects of Outdoor Lighting'. It is a fine move in relation to lighting in public open space in general, but will have greater significance for the older trees in Melbourne's public gardens and streets.

Dr Greg Moore OAM

Please indicate No
whether you
would like to
address the Future
Melbourne
Committee or the
Submissions
(Section 223)
Committee in
support of your
submission:

*(No opportunity is
provided for
submitters to be
heard at Council
meetings.) **

Privacy acknowledgement: *

I have read and acknowledge how Council will use and disclose my personal information.

Name: *

Roger Davis

Email address: *

rbdavis@optusnet.com.au

Please indicate which meeting you would like to make a submission to by selecting the appropriate button: *

Future Melbourne Committee meeting

Date of meeting: *

Tuesday 19 November 2019

Agenda item title: *

General Business – 7.1

Please write your submission in the space provided below and submit by no later than 10am on the day of the scheduled meeting.

We encourage you to make your submission as early as possible.

Progress has been made on the type of luminaire that is used to illuminate our streets and public advertising. However, progress on the way in which this lighting is utilised still hasn't been addressed. There are many aspects to be considered in the control of spill lighting, whether it be into a bedroom, a park or drivers eyes. The new Standard seeks to address many of these issues. The general public are becoming more aware of problems and limitations of the old AS4282 and the implementation of the new 2019 version should be a no-brainer.

Please indicate whether you would like to address the Future Melbourne Committee or the Submissions (Section 223) Committee in support of your submission:

No

*(No opportunity is provided for submitters to be heard at Council meetings.) **

Privacy acknowledgement: *

I have read and acknowledge how Council will use and disclose my personal information.

Name: *

Tim van Gelder

Email address: *

vangeldertim@gmail.com

Please indicate which meeting you would like to make a submission to by selecting the appropriate button: *

Future Melbourne Committee meeting

Date of meeting: *

Tuesday 19 November 2019

Agenda item title: *

7.1 Notice of Motion, Cr Leppert: Obtrusive effects of outdoor lighting

Please write your submission in the space provided below and submit by no later than 10am on the day of the scheduled meeting.

We encourage you to make your submission as early as possible.

I write to support the motion put forward by Cr Leppert.

The effects of excess lighting have been well-established. The City of Melbourne, and entities within its boundaries, should be doing more to reduce excess light.

As one flagrant example, the signage at the top of the Victorian Comprehensive Cancer Centre pumps out a mass of bright light towards Royal Park at all hours of the night. This is wanton light pollution.

Please indicate whether you would like to address the Future Melbourne Committee or the Submissions (Section 223) Committee in support of your submission:

No

*(No opportunity is provided for submitters to be heard at Council meetings.) **

Monday 18 November 2019

Submission to Council, City of Melbourne (Future Melbourne Committee) to support the motion, Agenda item 7.1, Tuesday 19 November 2019:

Obtrusive Effects of Outdoor Lighting

Dear Councillors and Lord Mayor Sally Capp,

I strongly support this motion.

I commend Councillor Rohan Leppert for moving the Motion and thank Councillor/Deputy Lord Mayor Aaron Wood for proposing to second it.

It is important to conduct a review and update of lighting strategies, policies and practices and to make changes for Outdoor Lighting in the City of Melbourne to minimise and control the obtrusive effects, and for particular, appropriate dark night conditions in the sensitive areas of Melbourne Observatory and Royal Park.

I support CoM's compliance with the new Australian Standard - AS/NZS 4282: 2019, '*Control of the Obtrusive Effects of Outdoor Lighting*', April 2019.

It is also important to support passing of the additional part of the motion, 1.2.2, for a change in Council's approach to lighting in Royal Park and Melbourne Observatory (MO) and its vicinity, capital city places in the City of Melbourne that are state heritage listed for high importance and value to the people of the State of Victoria. I strongly support dark night park/sky conditions for these places.

Melbourne Observatory is not just CoM – but is a State and National heritage listed place of outstanding significance to Australia and in the world, with potential to be a nomination for UNESCO World Heritage listing, thus important to all Australians and worldwide, not just those living in the CoM.

I urge your support for the motion and support for the Council resolving to comply with AS/NZS 4282, '*Control of the Obtrusive Effects of Outdoor Lighting*', April 2019, and support for particular conditions

for the sensitive area of Melbourne Observatory, a registered, operating observatory and state and national heritage listed place of outstanding significance.

This motion and council resolving to comply with *AS/NZS 4282: 2019* will make Melbourne more eco-friendly, protect nature and animals and make it a better environment for healthy living; it will improve healthy living conditions, liveability and introduce more environmentally sound practices.

See attached FYI:

1. Informational flyer from the *Walk in St Kilda Rd & Environs*, Planet Ark, National Tree Day, **Panel Presentation on Lighting**, 31 August 2019.
2. Dr Barry Clark **presentation on AS/NZS 4282: 2019** at the above event.

Note: I offer to organise a workshop with experts and City of Melbourne Councillors and officers before February, if this may assist the work of Council and the officers. Please let me know through Councillor Leppert.

There is a mass of community support for these lighting changes for the environment and liveability and I have already scheduled another expert panel presentation on lighting for July 2020.

Yours sincerely,

Bea McNicholas

Director, Walk in St Kilda Rd & Environs, Planet Ark, National Tree Day
Melbourne's Domain Parkland and Memorial Precinct



Walk in St Kilda Rd & Environs

Planet Ark National Tree Day nature care event: Lighting

Saturday 31 August 2019, 2.30pm – 4.00pm

Venue: Prahran Mechanics Institute, 39 St Edmonds Rd, Prahran VIC

Website event link: <https://treeday.planetark.org/sites/10023179>

Panel Presentation on Lighting: changes and effects

This is an educational public event to consider issues and inspire and motivate the community to foster change to support nature and a healthy environment

Consideration of the increasingly significant environmental and health and welfare impacts of lighting and light pollution on nature and life in cities. An expert panel will discuss the impact of lighting on trees, nature, parklands, observatories, animals and humans, and make recommendations.

There have been changes to the *Australian Lighting Standards* recently, including revisions for parklands, heritage reserves and observatories and mandatory requirements. AS/NZS 4282:2019, Control of the obtrusive effects of outdoor lighting*.

- **Dr Barry Clark**, astronomer, Director of the Outdoor Lighting Improvement section, Astronomical Society of Victoria (ASV) and committee member of the Victorian Chapter of the International Dark Sky Association.

Dr Clark will discuss the Standard for control of the obtrusive effects of outdoor lighting, focusing on heritage parkland reserves such as Fawkner Park and Domain

Parklands/Melbourne's Domain Parklands and Memorial Precinct, and on observatories, such as Melbourne Observatory.

- **Dr Greg Moore, OAM**, formerly Principal of Burnley College, Melbourne, arboriculture expert, inaugural President of the International Society of Arboriculture, Australian Chapter, Chair of Treenet, and Chair of the National Trust of Australia's Significant Tree Register.

Dr Moore, just back from a conference in America, will present latest research findings about the impact of lighting on trees; the importance of light to trees, the role of visible light, the importance of light that humans cannot see, light pollution and urban trees, light at night and street trees.

- **Councillor Rohan Leppert**, City of Melbourne, Chair of the Arts, Culture and Heritage Portfolio, and Deputy Chair of the Transport Portfolio and the Planning Portfolio; Chair of the Planning Committee, Municipal Association of Victoria (MAV); represents the City of Melbourne on the Victorian Local Government Association.

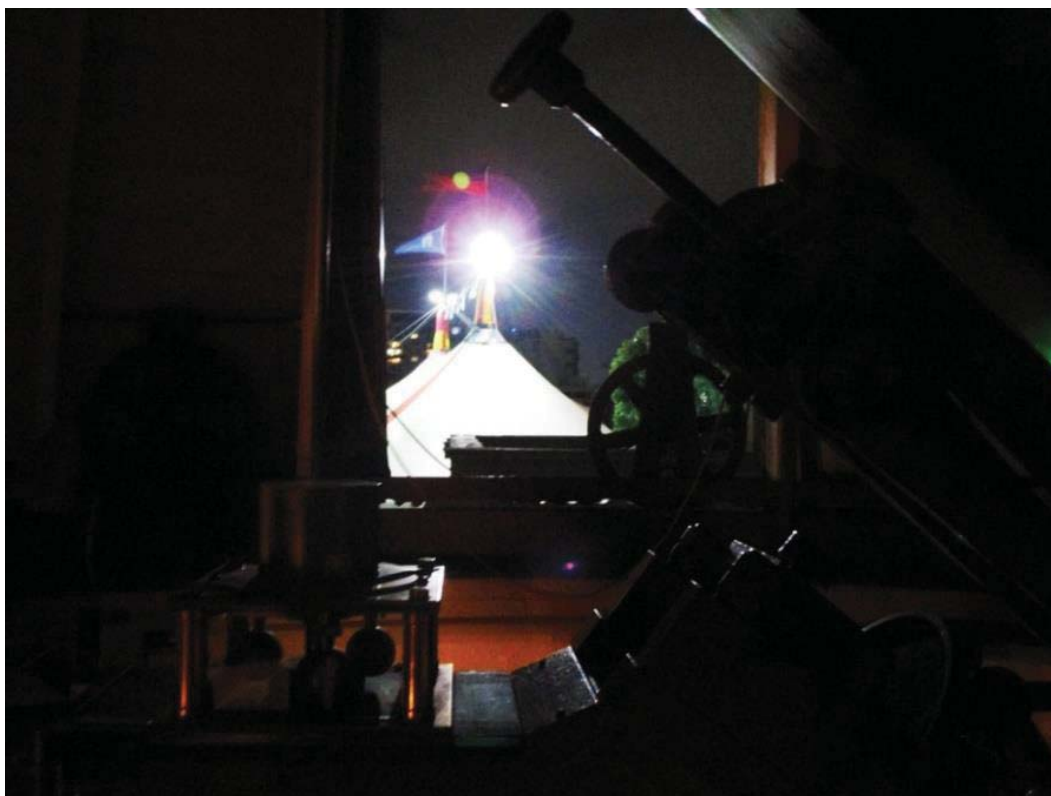
Councillor Leppert will discuss changes council may implement, including lighting modifications and diminishment in parklands, heritage reserves and formally recognised sensitive locations such as Melbourne Observatory.

Free Event Opportunity for questions; Tea and coffee available

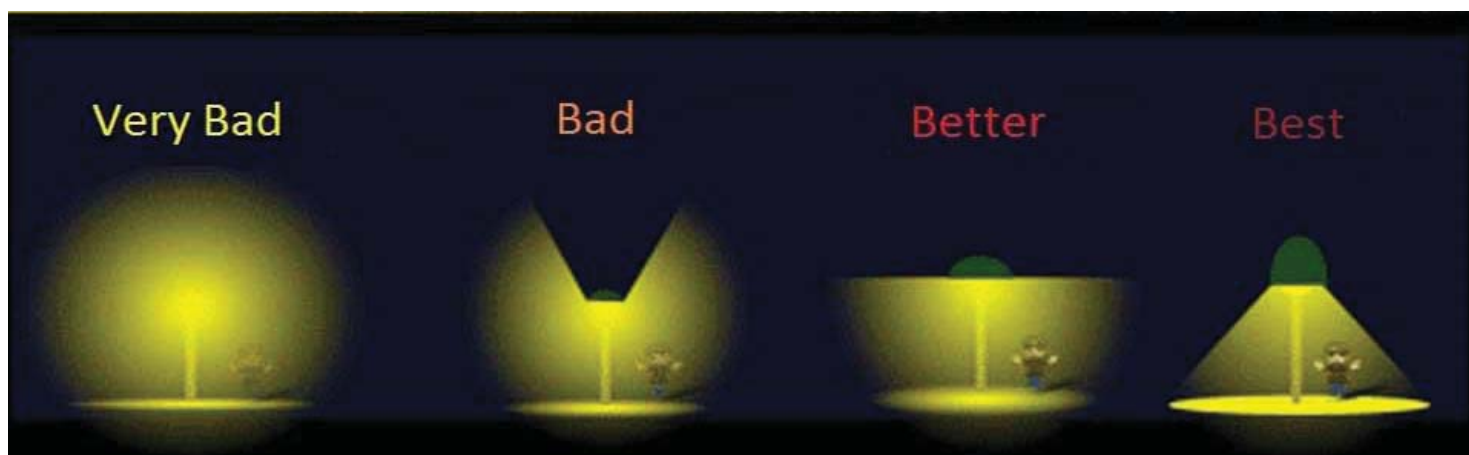
Bookings: <https://www.trybooking.com/BEKAU>

Venue: Prahran Mechanics Institute (PMI), 39 St Edmonds Road, Prahran VIC 3181
<https://www.pmi.net.au/> Between Greville Street and High Street, Prahran. Trams in High Street, Commercial Road and Chapel Street.

Organiser: Bea McNicholas, Director, *Walk in St Kilda Road and Environs*, Planet Ark, National Tree Day



Melbourne Observatory 29 June 2018: circus lighting disrupts telescope and observatory function



https://blogs-images.forbes.com_startswithabang_files_2019_04_light-fix-comp

Resources:

* The PMI copy of this new Australian Standard will be available for perusal at the event.

https://infostore.saiglobal.com/en-au/Standards/AS-NZS-4282-2019-1141358_SAIG_AS_AS_2703687/
<https://asv.org.au/light-pollution>

“Light pollution, also known as photo pollution, is the presence of anthropogenic and artificial light in the night environment. It is exacerbated by excessive, misdirected or obtrusive uses of light, but even carefully used light fundamentally alters natural conditions. As a major side-effect of urbanization, it is blamed for compromising health, disrupting ecosystems and spoiling aesthetic environments.”

https://en.wikipedia.org/wiki/Light_pollution

Re Melbourne Observatory: “We suggest that the master plan should include a requirement to develop a lighting policy which considers relevant lighting standards for observatories, and addresses the provision of temporary lighting for events to minimise impacts on the Observatory.” *National Trust of Australia (Vic.)*, April 2019

<http://www.trustadvocate.org.au/melbourne-gardens-masterplan-2019-2039/>
<https://www.facebook.com/friendsofmelbourneobservatory/>

“*This Is How To Bring Dark Skies Back In An Increasingly Developed World*”,
Dr Ethan Siegel, Contributor, Forbes, Science, Apr 16, 2019.

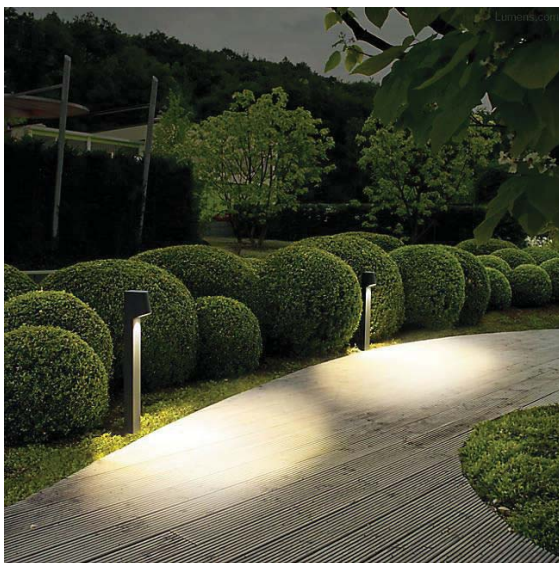
Dr Siegel Ph.D. is an astrophysicist, author, and science communicator.

“Light pollution may be a worse problem than ever, but it doesn't have to be this way.”

<https://www.forbes.com/sites/startswithabang/2019/04/16/this-is-how-to-bring-dark-skies-back-in-an-increasingly-developed-world/#6db77fc406e9>

“*Our nights are getting brighter, and Earth is paying the price*”, Nadia Drake, National Geographic, 3 April 2019. “Now, as the consequences of light pollution tiptoe from the shadows and into the spotlight, cities, regulatory agencies, and conservation groups are agitating for solutions.”

<https://www.nationalgeographic.com/science/2019/04/nights-are-getting-brighter-earth-paying-the-price-light-pollution-dark-skies/>



Park lighting: <https://www.lumens.com/led-garden-and-pathway-luminaire---77239-by-bega-BEGP85966.html>

Dark sky friendly lighting fixtures:

<https://www.darksky.org/our-work/lighting/lighting-for-citizens/lighting-basics/>

Dark-Sky Compliance: select fixtures that are specifically rated as dark-sky compliant. These designs are meant to minimize the amount of glow emitted by shielding glare and light trespass.

<https://www.lumens.com/landscape-lighting/>

Dark sky planning and compliance <https://www.planning.nsw.gov.au/Policy-and-Legislation/Environment-and-Heritage/Dark-Sky-Planning>

See video: <https://www.planning.nsw.gov.au/~ /media/Files/DPE/Guidelines/dark-sky-planning-guideline-2016-06.ashx>

See pdf: <https://www.planning.nsw.gov.au/- /media/Files/DPE/Guidelines/dark-sky-planning-guideline-2016-06.pdf>

Urban trees are stressed out because they can't get enough sleep, By Lila MacLellan June 10, 2017 <https://qz.com/998854/urban-trees-are-stressed-out-because-they-cant-get-enough-sleep/>

German forester Peter Wohlleben, author of the best-selling book *The Hidden Life of Trees*: told a crowd at the Hay Festival of Literature in Wales last month, as the Times of London reported, **“Trees that live near street lights will die earlier.”** City street lights should be switched off at 1am, he suggests, rather than burning all night. Wohlleben cites research indicating that **“Sleep deprivation affects trees and people in much the same way: it is life threatening.”**

Scientists in Finland have demonstrated that trees have circadian rhythms, and that they do in fact “sleep” at night, in the sense that their leaves droop and then perk up again at daybreak. A study done at the University of Exeter also showed that artificial light causes trees to bud one week earlier in spring. Under a constant light source, trees and plants do not function as effectively; they may not know when to photosynthesize and what season it is as effectively as they would if they lived with periods of natural darkness. ... What’s more, the bright lights affect the birds and insects that would normally live in a tree, which disturbs the tree’s biome, or ecosystem.

light pollution alters plant cycles. It throws their bud dormancy out of whack, along with their growth patterns and time when they drop their leaves and fruit.

<https://www.nationalgeographic.com/news/2016/06/light-pollution-early-spring-budbursts/>

‘artificial light in the night-time environment is sufficiently bright to induce a physiological response in plants, affecting their phenology, growth form and resource allocation. The physiology, behaviour and ecology of herbivores and pollinators are also likely to be impacted by artificial light’.

Ecological effects of artificial light at night on wild plants, Jonathan Bennie, Thomas W. Davies, David Cruse, Kevin J. Gaston, *Journal of Ecology*, 01 February 2016

<https://doi.org/10.1111/1365-2745.12551>

<https://besjournals.onlinelibrary.wiley.com/doi/full/10.1111/1365-2745.12551>

<https://www.abc.net.au/news/2018-03-26/how-light-pollution-is-damaging-our-world/9464026>

The Dark Side of Light: How light pollution is damaging our world, Christopher Dengate, 26/3/19

Earth's nights are getting brighter, and that has scientists concerned. It is an environmental nuisance that kills our wildlife, costs taxpayers and makes it increasingly difficult to see and study the stars. Little wonder then, that rising levels of light pollution have now sparked an international movement of scientists and environmental activists to campaign to make the world a darker place.

Kellie Pendoley is an environmental scientist who has published research on how light pollution is affecting the sea turtle population in Western Australia. Research published by La Trobe University in Melbourne found that light pollution was causing some wallabies to delay giving birth by a month, putting them out of sync with the food resources they need, and putting their

joeyes at risk. The ecological effects of artificial light on plants is also beginning to be documented.

... He says part of the problem is that cities can make short-term savings by simply switching to LEDs. "That doesn't take advantage of the huge potential of LEDs to do lots of different things," Dr Kyba said. Things such as changing the colour, direction and intensity of lighting. He also says making a difference can be as simple as talking to the local government.

Does Night Lighting Harm Trees? William R. Chaney, Department of Forestry and Natural Resources, Purdue University, West Lafayette, IN 47907, USA, 2017; page 4
<https://www.extension.purdue.edu/extmedia/FNR/FNR-FAQ-17.pdf>

“When artificial lighting is considered essential, mercury vapor, metal halide, or fluorescent lamps should be used in this order of preference. High-pressure sodium lamps should be avoided and even low-intensity incandescent is best excluded due to its high output of infrared and potential impact on some tree species. Fixtures shielded so that all of the light is directed toward the ground onto pedestrians and vehicular traffic and away from plants should be employed to reduce light pollution and harm to trees (Fig. 2). In all cases, uplighting and shining light over great horizontal distances should be avoided (Fig. 3). Lights should be turned off or dimmed during off-peak hours to avoid continuous lighting of trees, which has the greatest potential for upsetting normal growth patterns.”

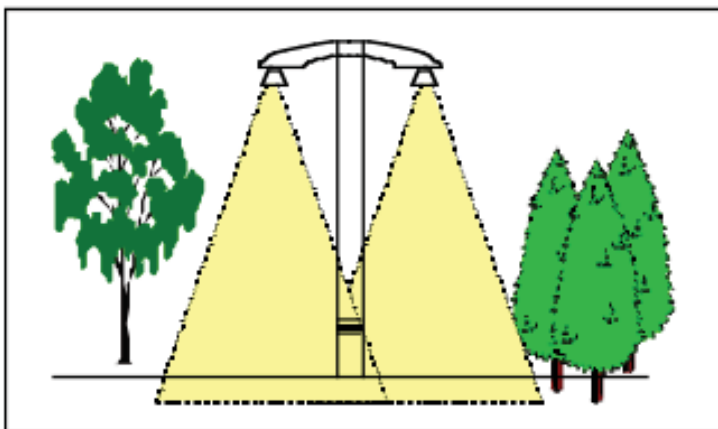


Figure 2. Best lighting design that with proper choice of lamp type will provide night light and minimize light pollution and effects on trees.

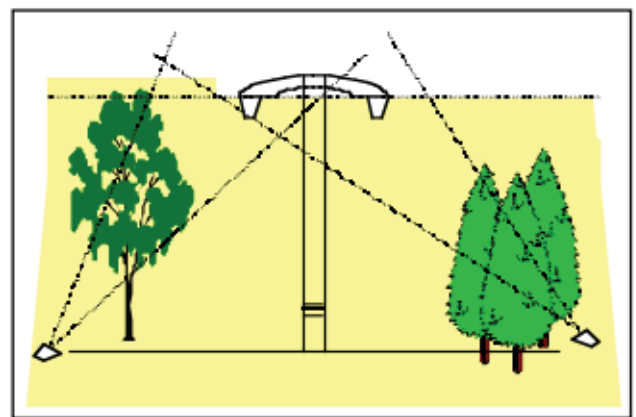


Figure 3. Poor lighting design using unshielded fixture and upward directed spots. Even with proper selection of lamp type to minimize direct effects on trees, wasteful night sky pollution occurs.

The Royal Horticultural Society, UK, 2019: <https://www.rhs.org.uk/Advice/Profile?PID=513>

Garden Lighting: Minimising impact

- Ask yourself whether you really need lighting
- Lessen the effects of lighting by **positioning lights as low as possible** and aiming lights responsibly
- **Turn garden lights off when not in use or use motion sensors or timers** for essential or security lighting
- Hoods can also **direct the light downwards** to reduce light pollution of the night sky
- Choose **low-intensity lighting and warmer hues** (warm white, yellow or amber): solar lighting is cheap, safe and emits a dull glow suitable for garden use
- Encourage **local councils to adopt switch-off schemes for street lighting: even part-night lighting** instead of full-night lighting has been found to reduce negative impact on the behaviour of moths

**The new Australian/New Zealand Standard
'Control of the obtrusive effects of outdoor lighting'
AS/NZS 4282: 2019**

Dr Barry A.J. Clark

**Director, Outdoor Lighting Improvement Section,
Astronomical Society of Victoria Inc**

Committee member, Vic. Chapter, International Dark Sky Association

**Walk in St Kilda Rd & Environs, Planet Ark, Lighting Panel Discussion
31 August 2019**

bajc@alphalink.com.au

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Summary of presentation by Dr Barry Clark at Lighting Panel Discussion, Planet Ark National Tree Day, 31 August 2019 at Prahran Mechanics Institute

Unlike its 1997 predecessor, the new version of the Australian/New Zealand Standard AS/NZS 4282: 2019 *'Control of the obtrusive effects of outdoor lighting'* is no longer merely an advisory guide. Instead, it specifies firm quantitative limits on the allowable amounts of light. There are many other improvements:

- **It includes illuminated and self-luminous surfaces such as signs and facades, and four zones for TV sports lighting. No exemptions are provided for temporary lighting.**
- **It has new zoning systems with flexibility to give protection to environmentally sensitive areas with mixed surrounds, as in cities and suburbs, and provides mandatory protection for observatories, and for historic/ scientific reserves, parks and gardens. In the two darkest zones, the lowest maximum artificial illuminances are 0.1 lux, or zero in curfew hours.**

But shortcomings remain. Despite overwhelming scientific evidence to the contrary, it still

- **ignores adverse health effects of blue light exposure at night such as increased probability of breast & prostate cancer, obesity, type 2 diabetes, dementia etc;**
- **confuses effect of light on fear of crime with nil effect on actual crime in discussing safety and security; and**
- **wrongly implies that lighting reduces road accidents in discussing safety and security.**

It has promise of blocking some planning proposals for installing sports and other bright/intense lighting in long-established reserves, parks, community spaces and gardens. Places in Victoria that might now be protected include:

The Domain (including Melbourne Observatory, Melbourne Gardens of the RBGV, Myer Music Bowl, Shrine of Remembrance, Edmund Herring Oval, Government House Reserve), Fawkner Park, Albert Park, St Kilda Botanic Gardens, Catani Gardens, State Netball Hockey Centre, Zoo, Royal Park, Princes Park, Carlton Gardens, Studley Park, Yarra riverside parks, Wattle Park, Footscray Park, Ballarat Observatory, Mt Burnett Observatory, ASV Leon Mow Dark Sky Site (near Heathcote), National Parks in general and many other Victorian parks and reserves.

‘CONTROL OF THE OBTRUSIVE EFFECTS OF OUTDOOR LIGHTING’

AS 4282-1997

- **World’s first such national standard**
- **Informative (advisory) guidance**
- **‘Glaring exemptions’ such as traffic and advertising signs, TV sports lighting**

AS/NZS 4282: 2019

Now, with some shortcomings removed, also for New Zealand

Normative (mandatory) quantitative values to limit outdoor spill light

Now includes illuminated and self-luminous surfaces, facades, and four zones for TV sports lighting. No exemptions are provided for temporary lighting

(Comparison continued)

AS 4282-1997

- **Inflexible, limited zoning**
- **Advisory protection for observatories**

**Lowest maximum artificial illuminances
1 lux**

AS/NZS 4282: 2019

New zoning systems with flexibility to give protection to environmentally sensitive areas with mixed surrounds, as in cities and suburbs

Mandatory protection for observatories, and for historic/scientific reserves, parks and gardens

Lowest maximum artificial illuminances 0.1 lux, or zero in curfew hours

[1 lux is about the illumination from a household candle at 1 metre]

(Comparison continued)

AS 4282-1997

- **Before 2003 discovery of intrinsically photo-sensitive retinal ganglion cells in mammalian eyes**
- **Before Boyce et al (2000), Steinbach et al (2015)**
- **Before Steinbach et al (2015)**

AS/NZS 4282: 2019

Quite deliberately ignores known adverse health effects of blue light exposure at night such as increased probability of breast & prostate cancer, obesity, type 2 diabetes, dementia etc

Still confuses effect of light on fear of crime with nil effect on actual crime in discussing safety and security

Still implies that lighting reduces road accidents in discussing safety and security

(Comparison continued)

AS 4282-1997

- **Upward Light Ratio formula ignores the much greater scatter of light travelling at or just above the horizontal**
- **4282 was largely ignored in previous planning disputes about putting sports and other intense lighting in community spaces, favouring organised sport over passive recreation**

AS/NZS 4282: 2019

No change, so there is little prospect of getting light fittings that can have up to say a 5 degree upcast without any upward light

Has promise of blocking some instances of the current craze for installing bright/intense lighting in long-established reserves, parks and gardens

Places that appear to come under the provisions of AS/NZS 4282: 2019

Melbourne Observatory of course, but also the Melbourne Gardens of the RBGV, Myer Music Bowl, Shrine of Remembrance, Edmund Herring Oval and Government House Reserve; all of these in the Domain

Fawkner Park, Albert Park, St Kilda Botanic Gardens, Catani Gardens, etc

State Netball Hockey Centre, Zoo, Royal Park, Princes Park, Carlton Gardens, Studley Park, Yarra riverside parks, Wattle Park

Footscray Park

Ballarat Observatory, Mt Burnett Observatory, ASV Leon Mow Dark Sky Site

National Parks in general and many other Victorian parks and reserves

FEAR OF CRIME REDUCES WITH INCREASED ILLUMINATION

Boyce PR, Eklund NH, Hamilton BJ, Bruno LD. (2000)

Perceptions of safety at night in different lighting conditions.

Lighting Research and Technology, 32(2): 79-91.

- **Four field studies were done on fear of crime in streets of New York City and Albany, NY, and in urban and suburban parking lots.**
- **Existing lighting ranged from 0.1 to 200 lux.**
- **Groups of subjects visited sites by night and day and answered questionnaires about perceptions of safety.**
- **At night, about 20 lux on the ground typically brought the perception of safety close to the daytime value.**
- **Lighting cannot make an urban parking lot seem as safe as a suburban parking lot.**
- **The perception of safety was not affected by spectral differences in illumination (ie colour of the light).**

How much artificial light at night should be specified for pedestrians? [It seems to be a grey area.]

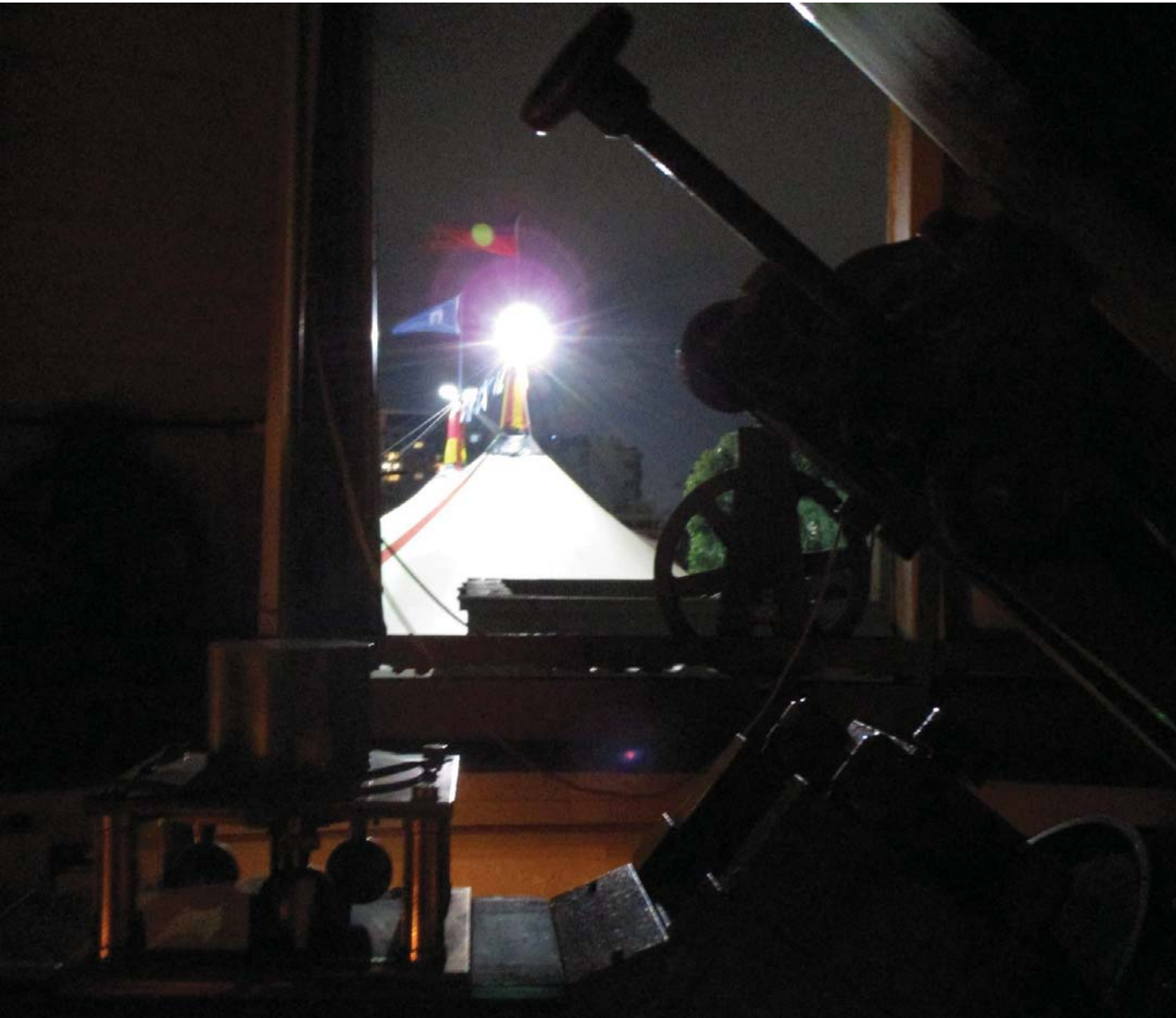
- **Do a trial with amount and type of lighting as the treatment.**
- **Collect subject responses in terms of distances for recognition of oncoming pedestrians, particularly potential lawbreakers.**
- **Ascertain the minimum Colour Rendering Index (CRI) required for the recognition of facial features.**
- **Shred the results because *lighting also helps lawbreakers to select and stalk victims*. The high CRI promotes racial stereotyping and is typically met with blue-rich lighting that is highly undesirable at night for health reasons.**
- **Levels of 0.1 lux (about first-quarter moonlight levels) provide minimal pedestrian mobility and wayfinding. *Low lighting levels also avoid giving a false sense of security that encourages vulnerable individuals to walk in isolated/secluded areas.***

Steinbach R, Perkins C, Tompson L, Johnson S, Armstrong B, Green J, Grundy C, Wilkinson P. (2015) **The effect of reduced street lighting on road casualties and crime in England and Wales: controlled interrupted time series analysis. *Journal of Epidemiology and Community Health.* doi:10.1136/jech-2015-206012. Accessed online 30 July 2015 at <http://jech.bmj.com/content/early/2015/07/08/jech-2015-206012.full>**

Summary and comment by B. Clark:

Street lighting does not reduce crime or road casualties

Survey responses from 62 municipalities that have reduced or stopped street lighting after midnight or 1 am indicate generally that there have been *no* increases in road accidents or crime as a consequence. This result might be understated because of publication bias, in this case a pressure not to publish results that go against common expectations.



A circus tent at Melbourne Observatory seen through the Astrograph Dome slit in June 2018. The presence of Aboriginal and TS Islander flags is a mockery, given the adverse effect of artificial skyglow in blotting out the natural features of the night sky that have been an essential part of the perpetuation of the Dreamtime stories that underlie indigenous cultural heritage.