

JCDecaux

LIGHTING IMPACT ASSESSMENT -OUTDOOR SIGNAGE AT SYDNEY PARK RD, ERSKINEVILLE NSW

28th September 2023 Ref: 1096.131

> Lighting Impact Assessment Outdoor Signage at Sydney Park Rd, Erskineville NSW

	DATE	REV	COMMENT	PREPARED BY	CHECKED BY
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1. INTRODUCTION

Electrolight have been appointed by JCDecaux to undertake a Lighting Impact Assessment on the proposed digital signage to be installed west of 241-245 Sydney Park Rd, Erskineville NSW. The objective of the assessment is to report on compliance with the State Environmental Planning Policy (Industry and Employment) 2021, NSW Transport Corridor Outdoor Advertising and Signage Guidelines, and AS4282-2019 Control of the Obtrusive Effects of Outdoor Lighting.

2. DEFINITIONS

2.1 Illuminance

The physical measure of illumination is illuminance. It is the luminous flux arriving at a surface divided by the area of the illuminated surface. Unit: lux (lx); 1 lx = 1 lm/m2.

(a) Horizontal illuminance (Eh) The value of illuminance on a designated horizontal plane

(b) Vertical illuminance (Ev) The value of illuminance on a designated vertical plane

Where the vertical illuminance is considered in the situation of potentially obtrusive light at a property boundary it is referred to as environmental vertical illuminance (Eve).

2.2 Luminance

The physical quantity corresponding to the brightness of a surface (e.g. a lamp, luminaire or reflecting material such as the road surface) when viewed from a specified direction. SI Unit: candela per square metre (cd/m^2) – also referred to as "nits".

2.3 Luminous Intensity

The concentration of luminous flux emitted in a specified direction. Unit: candela (cd).

2.4 Obtrusive Light

Spill Light which, because of quantitative, directional or spectral attributes in a given context, gives rise to annoyance, discomfort, distraction or a reduction in the ability to see essential information.

2.5 Threshold Increment

The measure of disability glare expressed as the percentage increase in contrast required between a standard object and its background (the carriageway) for it to be seen equally as well with the source of glare present as with it absent, derived in the specified manner. This metric is directly related to Veiling Luminance.

NOTE: The required value is a maximum for compliance of the lighting scheme.

2.6 AGI32 Light Simulation Software

AGI32 (by U.S. company Lighting Analysts) is an industry standard lighting simulation software package that can accurately model and predict the amount of light reaching a designated surface or workplane. AGi32 is a has been independently tested against the International Commission On Illumination (CIE) benchmark, CIE 171:2006, Test Cases to Assess the Accuracy of Lighting Computer Programs.

2.7 Upward Light Ratio (ULR)

The ratio between the luminous flux emitted above the horizontal plane to the total flux emitted by a light source. The ULR is used as a measure to limit direct spill light to the sky.

3. SITE DESCRIPTION AND SCOPE

The proposed digital signage is located west of 241-245 Sydney Park Rd, Erskineville NSW and faces south east. The signage is mounted on a free standing structure and is oriented towards the westbound direction of traffic on Sydney Park Rd. The total active display (illuminated) area of the proposed signage is 16.25 m2. The digital signage is to be in 24 hour operation. Refer to Appendix A for proposed signage location plan and elevations.

The proposed digital signage is illuminated using LEDs installed within the front face. The brightness of the LEDs shall be controlled to provide upper and lower thresholds as required as well as automatically via a local light sensor to adjust to ambient lighting conditions.

For the purpose of this report the proposed manufacturer of the digital signage is noted as Big Screen Video model type BSV-YATR-8 with performance parameters as outlined in Appendix B. The signage includes baffles which mitigate upward waste light, resulting in an Upward Light Ratio (ULR) of not more than 50%. Alternative digital sign manufacturers may be used for this installation as long as they have equivalent lighting and performance characteristics and are commissioned as described in this report.

4. DESIGN GUIDELINES AND STANDARDS

The Lighting Impact Assessment will review the proposed digital signage against the following Criteria, Design Guidelines and Standards.

- State Environmental Planning Policy (Industry and Employment) 2021 (Refer Appendix C)
- Transport Corridor Outdoor Advertising & Signage Guidelines 2017
- AS 4282-2019 Control of the Obtrusive Effects of Outdoor Lighting

5. LUMINANCE ASSESSMENT

The maximum permissible night time luminance of the signage is determined by the existing lighting environment of its surroundings. AS4282 outlines maximum average luminances for different Environmental Zones as shown in Table 1 below:

TABLE 1 - MAXIMUM NIGHT TIME AVERAGE LUMINANCE FOR SIGNAGE					
Environmental Zone	Description	Max Average Luminance (cd/m2)			
A4	High district brightness e.g. Town and city centres, commercial areas, and residential areas abutting commercial areas	350			
A3	Medium district brightness e.g. suburban areas in towns and cities	250			
A2	Low district brightness e.g. sparsely inhabited rural and semi- rural areas	150			
A1	Dark e.g. relatively uninhabited rural areas. No Road Lighting	0.1			
AO	Intrinsically Dark e.g. Major Optical Observatories. No Road Lighting	0.1			

Note: Where the signage is viewed against a predominantly dark background (e.g. night sky) then the maximum applicable environmental zone is A2

Based on an assessment of the surrounding environment, the proposed signage is located within Environmental Zone A3 under AS4282, therefore, the maximum night time luminance is 250cd/m2.

AS4282 does not include limits for daytime operation of illuminated signage. However, the Transport Corridor Outdoor Advertising & Signage Guidelines outlines maximum permissible luminance limits for various lighting conditions, including daytime. Under the Guidelines, the proposed signage is classified as being within Zone 4, which is described as an area with generally low levels of off-street ambient lighting e.g. most rural areas, or areas that have residential properties nearby. The maximum luminance of digital signage within Zone 4 is : No limit when full sun strikes the face of the sign, 6000 cd/m2 during daytime, 500 cd/m2 during morning and evening twilight and overcast weather and 200cd/m2 during night time.

Table 2 outlines the maximum luminance levels to comply with AS4282 and the Transport Corridor Outdoor Advertising & Signage Guidelines for the various lighting conditions listed below:

TABLE 2 - LUMINANCE LEVELS FOR DIGITAL ADVERTISEMENTS				
Lighting Condition	Max Permissible Luminance (cd/m2)#	Compliant		
Full Sun on face of Signage	No Limit	√		
Day Time Luminance (typical sunny day)	6000	√		
Morning and Evening Twilight and Overcast Weather	500	✓		
Night Time	120*			

[#]The signage is to be dimmed on site to ensure the maximum luminance nominated above is not exceeded.

* The maximum permissible luminance allowable under AS4282 and the Transport Corridor Outdoor Advertising & Signage Guidelines is actually 200 cd/m2. The luminance limit shown above was derived as a result of the calculation and assessment in Section 5 and 6, to ensure compliance with other criteria of AS4282 and any additional lighting requirements as described in this report.

6. AS4282 ASSESSMENT

The proposed signage has been assessed against AS 4282-2019 Control of the Obtrusive Effects of Outdoor Lighting as outlined in Section 4.

AS4282 provides limits for different obtrusive factors associated with dark hours (night time) operation of outdoor lighting systems. Two sets of limiting values for spill light are given based on whether the lighting is operating before a curfew (known as "pre-curfew" operation) or operating after a curfew (known as post-curfew or curfewed operation). Pre-curfew spill lighting limits are higher than post-curfew values, on the understanding that spill light is more obtrusive late at night when residents are trying to sleep. Under AS4282, the post-curfew period is taken to be between 11pm and 6am daily. As the signage operates all night, the signage will be assessed against the more stringent post-curfew limits.

Illuminance Assessment

The AS4282 assessment includes a review of nearby residential dwellings and calculation of the amount of illuminance (measured in Lux) that the properties are likely to receive from the signage during night time operation.

The acceptable level of illuminance will in part be determined by the night time lighting environment around the dwellings. AS4282 categorises the night time environment into different zones with maximum lighting limits as shown in Table 3 below:

TABLE 3 - MAXIMUM VALUES OF LIGHT TECHNICAL PARAMETERS				
Environmental	Max Vertical II	luminance (lx)	Description	
Zone	Pre-curfew	Post-curfew	Description	
AO	0	0	Intrinsically Dark e.g. Major Optical Observatories. No Road Lighting	
A1	2	0.1	Dark e.g. relatively uninhabited rural areas. No Road Lighting	
A2	5	1	Low district brightness e.g. sparsely inhabited rural and semi- rural areas	
A3	10	2	Medium district brightness e.g. suburban areas in towns and cities	
A4	25	5	High district brightness e.g. Town and city centres, commercial areas, and residential areas abutting commercial areas	

Based on an assessment of the surrounding areas, the nearest dwellings with potential views to the signage are at the following locations:

Address	Zone
121 Sydney Park Rd	A3
221 Sydney Park Rd	A3
241 - 245 Sydney Park Rd	A3
645 - 655 Sydney Park Rd	A4
665 - 667 Sydney Park Rd	A4

As such, the dwellings above will form the focus of the illuminance assessment.

The proposed signage (and surrounding environment) was modelled in lighting calculation program AGI32 to determine the effect (if any) of the light spill from the proposed signage. Photometric data for the screen was provided by the signage manufacturer*, with a luminance corresponding to the night time limit outlined in Section 5. Appendix D shows the lighting model and the results of the calculations.

It can be seen from the lighting model that the maximum illuminance to dwellings in Zone A3 is 1.8 lux at 241-245 Sydney Park Rd. The maximum illuminance to dwellings in Zone A4 is 0 lux at 645 - 655 Sydney Park Rd and 665 - 667 Sydney Park Rd. The illuminance levels above comply with the maximum AS4282 limit of 5 lux for Zone A4 properties and 2 lux for Zone A3 properties as outlined in Table 3.

Luminous Intensity

The luminous intensity limits nominated in the standard are not applicable for internally illuminated signage.

Threshold Increment Assessment

The Threshold Increment was also calculated for the westbound traffic approach on Sydney Park Rd. The calculation grids were at located at 1.5m above ground level, with an approach viewing distance of between 10m to 200m from the sign and a windscreen cutoff angle of 20 degrees (as outlined in AS1158). The calculation results show that the Threshold Increment does not exceed 2.98% for any traffic approach (the allowable maximum under the standard is 20%).

Additional AS4282 Requirements:

The signage operator must ensure that the average luminance difference between successive images does not exceed 30% to ensure compliance with AS4282. The dwell time shall be 10 seconds or greater to comply with the minimum requirements of AS4282.

<u>Summary</u>

It can therefore be seen that the proposed digital signage complies with all relevant requirements of AS 4282-2019 Control of the Obtrusive Effects of Outdoor Lighting.

* Electrolight takes no responsibility for the accuracy of third party provided photometric data.

7. SUMMARY

The proposed digital signage to be installed at Sydney Park Rd, Erskineville NSW, shall be commissioned on site to yield the following maximum luminances

LUMINANCE LEVELS FOR DIGITAL ADVERTISEMENTS				
Lighting Condition	Max Permissible Luminance (cd/m2)	Compliant		
Full Sun on face of Signage	No Limit	√		
Day Time Luminance (typical sunny day)	6000	√		
Morning and Evening Twilight and Overcast Weather	500	√		
Night Time	120	✓		

- The signage operator must ensure that the average luminance difference between successive images does not exceed 30% to ensure compliance with AS4282. The dwell time shall be 10 seconds or greater in order to comply with the requirements of AS4282.
- The proposed digital signage has been found to comply with all relevant requirements of AS 4282-2019 Control of the Obtrusive Effects of Outdoor Lighting and the Transport Corridor Outdoor Advertising & Signage Guidelines 2017.
- In complying with the above requirements, the proposed digital signage shall not result in unacceptable glare nor shall it adversely impact the safety of pedestrians, residents or vehicular traffic. Additionally, the signage shall not cause any unacceptable amenity impacts to nearby residences or accommodation.

8. DESIGN CERTIFICATION

The proposed digital signage to be installed at Sydney Park Rd, Erskineville NSW if commissioned according to this report, complies with the following criteria, guidelines and standards:

- State Environmental Planning Policy (Industry and Employment) 2021 (Refer Appendix C)
- Transport Corridor Outdoor Advertising & Signage Guidelines 2017.
- AS 4282-2019 Control of the Obtrusive Effects of Outdoor Lighting.

for In

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Senior Lighting Designer Electrolight Sydney 28/09/23









APPENDIX A PROPOSED SIGNAGE LOCATION, ELEVATIONS & PHOTOMONTAGES



APPENDIX A PROPOSED SIGNAGE LOCATION, ELEVATIONS & PHOTOMONTAGES



Big Screen Video

Specs: Outdoor 8mm SMD

	BSV-YATR-8	8mm, physical	15,625 pixel/m2	SMD LED	256mm x 128mm	32 x 16 pixels	eel	H 140 Deg. / V 140 Deg.	Ε	Rear access	IP65 front; IP54 rear	approx. 58kg/sqm
Product Specifications	Catalogue no. BSV	Physical Pitch 8mm	Pixel Density 15,6	Pixel Configuration SMD	Module Dimensions (WxH) 256r	Module Resolution (WxH) 32 x	Cabinet Material Steel	Viewing Angle H 14	Best Viewing Distance 8+m	Maintenance Rear	Protection Degree	Panel Net Weight

Product Specifications	
Gray Scale	16-bit Color Processing Depth
Refresh Rate	3840+ Hz
Display Control	Synchronous control
Power Supply	220V, 50Hz
Operation Temp.	-20° ~60°
Display Dimming	Auto/Manual, 8~256 Levels
Signal Transfer	Text, image, graphics animations video
Power Consumption (Max./Avg.)	0.6kw/sqm; 0.2kw/sqm
Lifetime	100,000hrs
Luminance	7000 nits

APPENDIX B DIGITAL SIGNAGE SPECIFICATION

Bringing spaces to life.

p.5

Australia - New Zealand - North America

APPENDIX C

State Environmental Planning Policy (Industry and Employment) 2021

Schedule 5 Assessment criteria

(Clauses 8, 13 and 17)

1. Character of the area

- Is the proposal compatible with the existing or desired future character of the area or locality in which it is proposed to be located?
- Is the proposal consistent with a particular theme for outdoor advertising in the area or locality?

2. Special areas

• Does the proposal detract from the amenity or visual quality of any environmentally sensitive areas, heritage areas, natural or other conservation areas, open space areas, waterways, rural landscapes or residential areas?

3. Views and vistas

- Does the proposal obscure or compromise important views?
- Does the proposal dominate the skyline and reduce the quality of vistas?
- Does the proposal respect the viewing rights of other advertisers?

4. Streetscape, setting or landscape

- Is the scale, proportion and form of the proposal appropriate for the streetscape, setting or landscape?
- Does the proposal contribute to the visual interest of the streetscape, setting or landscape?
- Does the proposal reduce clutter by rationalising and simplifying existing advertising?
- Does the proposal screen unsightliness?
- Does the proposal protrude above buildings, structures or tree canopies in the area or locality?
- Does the proposal require ongoing vegetation management?

5. Site and building

- Is the proposal compatible with the scale, proportion and other characteristics of the site or building, or both, on which the proposed signage is to be located?
- Does the proposal respect important features of the site or building, or both?
- Does the proposal show innovation and imagination in its relationship to the site or building, or both?

6. Associated devices and logos with advertisements and advertising structures

• Have any safety devices, platforms, lighting devices or logos been designed as an integral part of the signage or structure on which it is to be displayed?

7. Illumination

- Would illumination result in unacceptable glare?
- Would illumination affect safety for pedestrians, vehicles or aircraft?
- Would illumination detract from the amenity of any residence or other form of accommodation?
- Can the intensity of the illumination be adjusted, if necessary?
- Is the illumination subject to a curfew?

8. Safety

- Would the proposal reduce the safety for any public road?
- Would the proposal reduce the safety for pedestrians or bicyclists?
- Would the proposal reduce the safety for pedestrians, particularly children, by obscuring sightlines from public areas?

APPENDIX D OBTRUSIVE LIGHTING CALCULATIONS

LIA Calculation Summary			
Project: Obtrsuive			
Label	CalcType	Units	Max
121 Sydney Park Rd Ill Seg1	Obtrusive - Ill	Lux	0.1
121 Sydney Park Rd Ill Seg10	Obtrusive - Ill	Lux	0.0
121 Sydney Park Rd Ill Seg11	Obtrusive - Ill	Lux	0.0
121 Sydney Park Rd Ill Seg12	Obtrusive - Ill	Lux	0.0
121 Sydney Park Rd Ill Seg13	Obtrusive - Ill	Lux	0.0
121 Sydney Park Rd Ill Seg14	Obtrusive - Ill	Lux	0.0
121 Sydney Park Rd Ill Seg15	Obtrusive - Ill	Lux	0.0
121 Sydney Park Rd Ill Seg16	Obtrusive - Ill	Lux	0.0
121 Sydney Park Rd Ill Seg17	Obtrusive - Ill	Lux	0.0
121 Sydney Park Rd Ill Seg2	Obtrusive - Ill	Lux	0.0
121 Sydney Park Rd Ill Seg3	Obtrusive - Ill	Lux	0.0
121 Sydney Park Rd Ill Seg4	Obtrusive - Ill	Lux	0.0
121 Sydney Park Rd Ill Seg5	Obtrusive - Ill	Lux	0.0
121 Sydney Park Rd_Ill_Seg6	Obtrusive - Ill	Lux	0.0
121 Sydney Park Rd Ill Seg7	Obtrusive - Ill	Lux	0.0
121 Sydney Park Rd_Ill_Seg8	Obtrusive - Ill	Lux	0.0
121 Sydney Park Rd_Ill_Seg9	Obtrusive - Ill	Lux	0.0
221 Sydney Park Rd_1_Ill_Seg1	Obtrusive - Ill	Lux	0.0
221 Sydney Park Rd 1 Ill Seg2	Obtrusive - Ill	Lux	0.0
221 Sydney Park Rd 1 Ill Seg3	Obtrusive - Ill	Lux	0.0
221 Sydney Park Rd 1 Ill Seg4	Obtrusive - Ill	Lux	0.0
221 Sydney Park Rd 1 Ill Seg5	Obtrusive - Ill	Lux	0.0
221 Sydney Park Rd 1 Ill Seg6	Obtrusive - Ill	Lux	0.0
221 Sydney Park Rd_1_Ill_Seg7	Obtrusive - Ill	Lux	0.0
221 Sydney Park Rd_1_Ill_Seg8	Obtrusive - Ill	Lux	0.0
221 Sydney Park Rd_1_Ill_Seg9	Obtrusive - Ill	Lux	0.0
221 Sydney Park Rd_Ill_Seg1	Obtrusive - Ill	Lux	0.0
221 Sydney Park Rd_Ill_Seg2	Obtrusive - Ill	Lux	0.0
221 Sydney Park Rd_Ill_Seg3	Obtrusive - Ill	Lux	0.0
221 Sydney Park Rd_Ill_Seg4	Obtrusive - Ill	Lux	0.0
221 Sydney Park Rd_Ill_Seg5	Obtrusive - Ill	Lux	0.0
241 - 245 Sydney Park Rd_Ill_Seg1	Obtrusive - Ill	Lux	0.1
241 - 245 Sydney Park Rd_Ill_Seg2	Obtrusive - Ill	Lux	1.8
241 - 245 Sydney Park Rd_Ill_Seg3	Obtrusive - Ill	Lux	0.5
645-655 King St_Ill_Seg1	Obtrusive - Ill	Lux	0.0
645-655 King St_Ill_Seg2	Obtrusive - Ill	Lux	0.0
665 - 667 King St_Ill_Seg1	Obtrusive - Ill	Lux	0.0
665 - 667 King St_Ill_Seg2	Obtrusive - Ill	Lux	0.0



APPENDIX D THRESHOLD INCREMENT CALCULATIONS

CalcType	Units	Max
Obtrusive - TI	010	2.98
Obtrusive - TI	010	0.13
Obtrusive - TI	010	0.63
	Obtrusive - TI Obtrusive - TI	Obtrusive - TI % Obtrusive - TI %



APPENDIX D

OBTRUSIVE LIGHTING AND THRESHOLD INCREMENT CALCULATIONS

Obtrusive Light - Compliance Report AS/NZS 4282:2019, A3 - Medium District Brightness, Non-Curfew L2 Filename: 1096.131- 241 - 245 Sydney Park Rd Erkinsville-Copy-65966 13/09/2023 6:39:14 PM

Illuminance

Maximum Allowable Value: 10 Lux

Calculations Tested (34):

	Test	Max.
Calculation Label	Results	Illum.
121 Sydney Park Rd_III_Seg1	PASS	0.1
121 Sydney Park Rd_III_Seg2	PASS	0.0
121 Sydney Park Rd_III_Seg3	PASS	0.0
121 Sydney Park Rd_III_Seg4	PASS	0.0
121 Sydney Park Rd_III_Seg5	PASS	0.0
121 Sydney Park Rd_III_Seg6	PASS	0.0
121 Sydney Park Rd_III_Seg7	PASS	0.0
121 Sydney Park Rd_III_Seg8	PASS	0.0
121 Sydney Park Rd_III_Seg9	PASS	0.0
121 Sydney Park Rd_III_Seg10	PASS	0.0
121 Sydney Park Rd_III_Seg11	PASS	0.0
121 Sydney Park Rd_III_Seg12	PASS	0.0
121 Sydney Park Rd_III_Seg13	PASS	0.0
121 Sydney Park Rd_III_Seg14	PASS	0.0
121 Sydney Park Rd_III_Seg15	PASS	0.0
121 Sydney Park Rd_III_Seg16	PASS	0.0
121 Sydney Park Rd_III_Seg17	PASS	0.0
221 Sydney Park Rd_III_Seg1	PASS	0.0
221 Sydney Park Rd_III_Seg2	PASS	0.0
221 Sydney Park Rd_III_Seg3	PASS	0.0
221 Sydney Park Rd_III_Seg4	PASS	0.0
221 Sydney Park Rd_III_Seg5	PASS	0.0
221 Sydney Park Rd_1_III_Seg1	PASS	0.0
221 Sydney Park Rd_1_III_Seg2	PASS	0.0
221 Sydney Park Rd_1_III_Seg3	PASS	0.0
221 Sydney Park Rd_1_III_Seg4	PASS	0.0
221 Sydney Park Rd_1_III_Seg5	PASS	0.0
221 Sydney Park Rd_1_III_Seg6	PASS	0.0
221 Sydney Park Rd_1_III_Seg7	PASS	0.0
221 Sydney Park Rd_1_III_Seg8	PASS	0.0
221 Sydney Park Rd_1_III_Seg9	PASS	0.0
241 - 245 Sydney Park Rd_III_Seg1	PASS	0.1
241 - 245 Sydney Park Rd_III_Seg2	PASS	1.8
241 - 245 Sydney Park Rd_III_Seg3	PASS	0.5

Threshold Increment (TI)

Maximum Allowable Value: 20 %

Calculations Tested (3):

Adaptation	Test
Luminance	Results
5	PASS
5	PASS
5	PASS
	Luminance 5 5

APPENDIX D

OBTRUSIVE LIGHTING AND THRESHOLD INCREMENT CALCULATIONS

Obtrusive Light - Compliance Report AS/NZS 4282:2019, A4 - High District Brightness, Non-Curfew L2 Filename: 1096.131- 241 - 245 Sydney Park Rd Erkinsville-Copy-65966 13/09/2023 6:41:16 PM

Illuminance

Maximum Allowable Value: 25 Lux

Calculations Tested (4):

Test	Max.
Results	Illum.
PASS	0.0
	Results PASS PASS PASS

Threshold Increment (TI) Maximum Allowable Value: 20 %

Calculations Tested (3):

	Adaptation	Test
Calculation Label	Luminance	Results
Sydney Park Rd - S	5	PASS
Sydney Park Rd - S_3	5	PASS
Sydney Park Rd - S_1	5	PASS