



• LIGHTING DESIGN • ELECTRICAL • SMART CITIES •
ENERGY REDUCTION • LIGHTING IMPACT

SEACOURT TENNIS CLUB

BASELINE SURVEY

DFL-UK

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Designs for Lighting (DFL) is a business built on successfully collaborating with our clients. We have over 20 years proven experience in our industry, listening to the challenges our clients face, developing the best solutions and being innovators in our specialism. Our role is to find the most effective and sustainable outcome to enhance and support your projects. We proudly work with recognised industry bodies to promote and shape the future of the industry and ensure our staff are trained to exceed the required competency levels of our industries. Above all, we ensure each project delivers against our values.



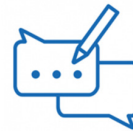
Quality



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1. INTRODUCTION

1.1. Executive Summary

- 1.1.1. This report is to outline the findings of the Baseline survey undertaken by DFL (Designs for Lighting Ltd), a lighting design consultancy specialising in Lighting Impact Assessments, obtrusive light mitigation, and detailed lighting design.
- 1.1.2. The report outlines the findings of a site survey to establish the baseline lighting conditions, which have been undertaken by suitably qualified and competent lighting professionals, holding either an Associate Member (AMILP) or Member (MILP) grade of membership with the ILP. Furthermore, they are professionally registered with the Engineering Council, holding either Engineering technician (Engtech), Incorporated Engineer (IEng) or Chartered Engineer (CEng) status on the Engineering Council register.
- 1.1.3. The purpose of this report is to summarise the results of the baseline lighting survey lead by Ryan Carroll on the 13/02/2020.
- 1.1.4. Astronomical twilight at the time of the survey was between 18:28 to 19:10, the survey was started at 18:43, further information on the Application Site and surrounding area at the time of the survey can be seen in **Appendix 2**.

2. DESKTOP STUDY

2.1. Site Description and Context

- 2.1.1. An indicative boundary of the site and proposed layout can be seen in **Figure 1**.
- 2.1.2. The Application Site sits under the jurisdiction of Havant Borough Council.
- 2.1.3. Hayling Island is on the south coast of the UK and connected to the mainline by Langstone Bridge and the Application Site is close to the south coast of the island. The tennis club is situated in a residential area with some businesses including care homes and bed and breakfasts.
- 2.1.4. The padel courts are next to tennis courts and close by is an amusement park on the beach.



Figure 1: The Application Site location and boundary.

2.2. Survey Area

- 2.2.1. The area surveyed is shown by the red line in **Figure 2**.
- 2.2.2. The photographs taken of the area can be seen in **Appendix 4**.
- 2.2.3. The survey was conducted in accordance with GN08:2023. Details of the conditions of the baseline survey can be found in **Appendix 2**.

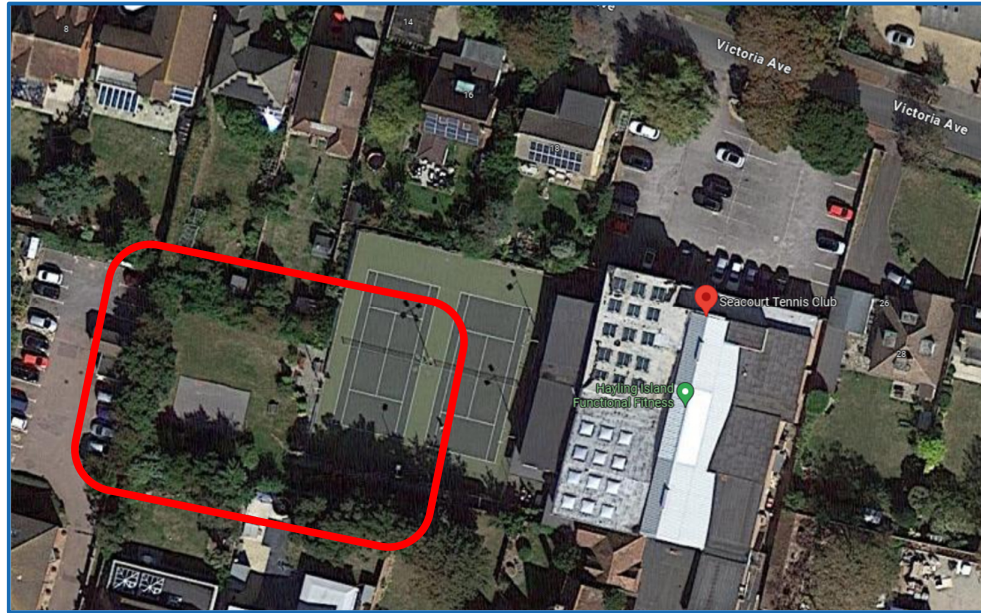


Figure 2: Survey Area

3. METHODOLOGY

3.1. Relevant Guidance

- 3.1.1. This baseline survey has been undertaken in accordance with the Institution of Lighting Professional's (ILP) Professional Lighting Guide (PLG04); and with consideration of the limits on obtrusive light set out within the ILP "Guidance Notes for the Reduction of Obtrusive Light" (GN01:2021).
- 3.1.2. The survey undertaken will be in compliance with the procedures outlined in ILP "Guidance on Undertaking Environmental Lighting Impact Assessments" (PLG04:23)
- 3.1.3. The baseline survey has been carried out by suitably qualified and competent lighting professionals, as detailed in **Section 1**.

3.2. Illuminance Readings

- 3.2.1. Illuminance measurements were taken in the horizontal plane with the illuminance meter being placed on the ground above the measurement point, and in the vertical plane at approximately 1.5m in height facing relative north, east, south, and west, based on a common reference point.
- 3.2.2. Measurement positions taken during the baseline survey are presented in **Appendix 1**.
- 3.2.3. Measurements were taken using a Konica Minolta T-10A illuminance meter and is widely regarded as the standard instrument for providing a consistent level of accuracy, at the low illuminance levels associated with site measurements in locations with typically low ambient luminance.
- 3.2.4. The survey readings should be taken with all nearby lighting switched on for the full duration of the survey.

4. EXISTING LIGHTING

4.1. Overview

- 4.1.1. The area is currently only with the spill light from the adjacent tennis courts. The nearby residential roads are lit, which adds to the skyglow from the area along with nearby sky lights and conservatories.
- 4.1.2. Light pollution mapping prepared by Campaign for the Protection of Rural England (CPRE) indicates high levels of sky glow in the vicinity of the Application Site. Results of this mapping are presented in **Figure 3**.

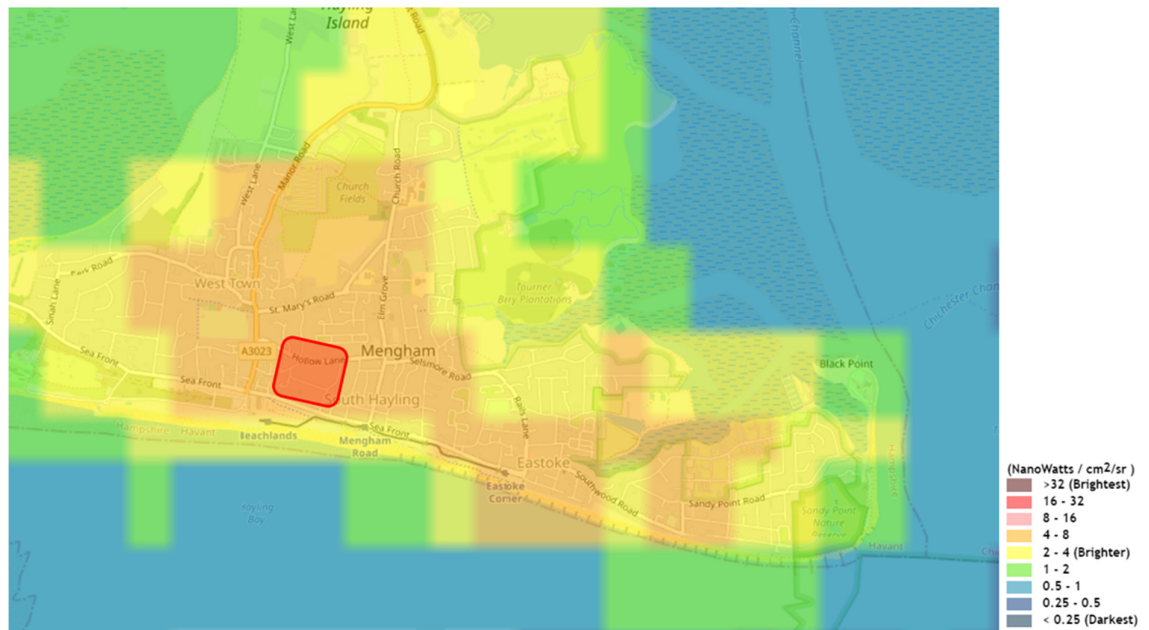


Figure 3: CPRE Mapping

5. SUMMARY OF RESULTS

5.1. Overview

- 5.1.1. The highest reading on the Application Site was recorded on the horizontal as 21 lux, the highest on the vertical was 31 lux.
- 5.1.2. The results of the illuminance measurements area presented in **Appendix 3**.

6. CONCLUSION

6.1. General

- 6.1.1. This report is provided to outline the baseline lighting conditions found at Seacourt Tennis Club at the Proposed Site for padel courts.
- 6.1.2. A desktop assessment and on-site survey were undertaken to determine the nature of the site and its surrounds, and to build a picture of lighting within the site and in the immediate vicinity.
- 6.1.3. Observations taken during the survey, indicate that the application site already has a high level of spill light from the nearby tennis courts and any other light sources.

APPENDIX 1 – MEASUREMENT POINTS



Figure 4: Survey Measuring Points

APPENDIX 2 – SURVEY INFORMATION

Survey Information	
Site Address	Seacourt Tennis Club, 20 Victoria Avenue, Hayling Island, PO11 9AJ
Survey Start	13/02/2024 18:43
Survey Finish	13/02/2024 19:13
Astronomical Twilight	18:28 to 19:10
Weather	Overcast
Moon Phase	Waxing Crescent

Table 1: Survey Information

<https://moonphases.co.uk>.

APPENDIX 3 – SURVEY RESULTS

Location	Reading Number	Horizontal		Vertical		
			North	East	South	West
N50° 47.145' W0° 59.056'	01	20.72	3.53	31	12.14	0.59
N50° 47.146' W0° 59.058'	02	8.99	1.44	13.41	3.02	0.40
N50° 47.147' W0° 59.063'	03	4.32	0.32	5.36	1.45	0.1
N50° 47.147' W0° 59.066'	04	1.35	0.29	3.32	0.57	0.07
N50° 47.147' W0° 59.071'	05	1.16	0.08	2.08	0.82	0.08
N50° 47.147' W0° 59.070'	06	1.32	0.16	2.64	0.74	0.08
N50° 47.146' W0° 59.071'	07	0.79	0.26	2.60	0.21	0.08
N50° 47.142' W0° 59.074'	08	0.64	0.35	2.24	0.52	0.58
N50° 47.141' W0° 59.073'	09	0.51	0.71	2.05	0.56	0.76
N50° 47.139' W0° 59.075'	10	0.75	0.67	1.63	0.06	0.65
N50° 47.137' W0° 59.073'	11	1.10	1.21	2.48	0.05	0.10
N50° 47.137' W0° 59.070'	12	1.61	1.80	3.06	0.09	0.11
N50° 47.134' W0° 59.060'	13	1.77	0.83	1.73	0.02	0.04
N50° 47.134' W0° 59.055'	14	4.75	0.17	0.34	0.04	0.06
N50° 47.138' W0° 59.065'	15	11.80	13.02	10.18	0.48	0.48

N50° 47.135' W0° 59.059'	16	15.33	22.11	14.99	0.68	0.55
N50° 47.135' W0° 59.056'	17	21.01	30.9	11.93	1.00	1.59
N50° 47.133' W0° 59.051'	18	17.24	17.32	0.41	0.99	6.34

Table 2: Survey Results

APPENDIX 4 – SURVEY PHOTOS

View to existing tennis courts taken from point approximately North-west corner to survey area.



View of proposed Padel court area from the boundary with tennis courts looking north-west.



View of padel court boundary with tennis courts, looking North.



Grassy area beside proposed padel court location looking north-west



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- **Public Realm** teams that are experts in enhancing night-time public spaces to create inviting spaces and opportunity for local economies to thrive during the hours of darkness.
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Finally, as innovators, you might be facing something bespoke or niche. Don't worry – we might have the answer you need. Feel free to get in touch!

THE POWER TO MAKE LIGHT WORK



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