

SPACE REFERENCE: _____ (Space Page 1 / 4)

(Facility Name:) _____

General Data

Location: (tick below)

- Indoor
Outdoor

Type of interior, task or activity _____

If necessary, additional description
of the activity performed in the space

Occupancy pattern⁶ (tick below)

- Variable occupation
Intermittent scheduled occupation
Full occupation
Intermittent occupation

Floor area (in m²) _____

Glazing characteristics
(useful to record if you want to investigate using
a daylight responsive lighting control system)

Net glazing area (in m²)⁷ _____

Gross exterior wall area (in m²)⁸ _____

Colour (tick below)

- Clear
Green or blue green
Blue
Bronze
Grey
Extra dark
Light reflective
Medium reflective
High reflective

Thermal property

- Low-E
Not low-E
(double pane only)

Obstruction percentage¹¹ (tick below)

- Less than 50%
Between 50% and 70%
Between 70% and 90%
More than 90%

Thickness (tick below)

- Single pane
Double pane

Lighting System

Baseline Lighting

Post-Installation Lighting

Picture reference⁴ _____

Luminaire 1

Luminaire 2

Luminaire 3

Luminaire 1

Luminaire 2

Luminaire 3

Name of the luminaire _____

Number of luminaires _____

Number of control systems _____

Number of lamps per luminaire _____

Number of connecting device per luminaire¹² _____

Luminaire additional description

Date of the installation _____

Lamps

		Baseline Lighting			Post-Installation Lighting		
		Luminaire 1	Luminaire 2	Luminaire 3	Luminaire 1	Luminaire 2	Luminaire 3
Lamp manufacturer							
Lamp reference ¹³							
Type of lamp (tick below)		(tick below)	(tick below)	(tick below)	(tick below)	(tick below)	(tick below)
Incandescent lamp	Tungsten standard						
	General Lighting Service	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Reflector lamp	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Tungsten halogen						
	Line-voltage	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Very-low voltage	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Fluorescent lamp	Linear						
	38mm (T12)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	26mm (T8)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	16mm (T5)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Other (specify)						
	Compact						
	Integral (self-ballasted)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Dedicated (pin-based)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Induction						
	Fitting-based	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Self-ballasted	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Other						
U-tube	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Circular	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Other (specify)							
Other discharge lamp	Metal Halide	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	High Pressure Mercury						
	Standard	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Blended lamp	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	High Pressure Sodium						
	Standard	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	"White sodium"	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Low Pressure Sodium	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Other lamp						
	Light emitting diode (LED)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Microwave lamps	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Other (specify)							
Unit rated power (in Watts)							
Colour Temperature (in Kelvin) ¹⁴							
Colour Rendering Index ¹⁴							
Unit rated lifetime (in burning hours) ¹⁴							
Unit price (Euro/unit)							
Lamp additional description							

Control System

	Baseline Lighting			Post-Installation Lighting		
	Luminaire 1	Luminaire 2	Luminaire 3	Luminaire 1	Luminaire 2	Luminaire 3
Control manufacturer	_____	_____	_____	_____	_____	_____
Type of control system	(tick below)	(tick below)	(tick below)	(tick below)	(tick below)	(tick below)
General manual switch	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Localised manual switch	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Occupancy linking	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Passive infrared	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Ultrasonic	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Ultrasonic-infrared	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Time scheduling	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Mechanical time clock	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Electronic time clock	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Daylighting responsive	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
On/Off	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Stepping	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Dimming	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	_____	_____	_____	_____	_____	_____
Control is performing as supposed	Yes - No	Yes - No	Yes - No	Yes - No	Yes - No	Yes - No
Control system additional description	_____	_____	_____	_____	_____	_____

Service, Operation and Costs/Benefits

Lighting quantity

Illuminance level on reference plane (in lux)¹⁵ _____

Identification of measurement point¹⁶ _____

Energy use

Daily burning time in hours (average winter) _____

Daily burning time in hours (average summer) _____

Switching occurs after working hours Yes - No Yes - No Yes - No Yes - No Yes - No Yes - No

Number of operating days per year _____

	Synthesis Baseline Lighting	Synthesis Post-installation Lighting
Total lighting installed power (in kW)	_____	_____
Lighting electricity use per year (in kWh/year)	_____	_____
Initial cost (in Euro) ¹⁷	_____	_____
Yearly running cost (in Euro/year) ¹⁸	_____	_____

Profitability of Post-installation Lighting versus Baseline Lighting

Lighting electricity savings per year (in kWh/year) _____

Savings in running cost per year (in Euro/year) _____

Internal Rate of Return of the energy-efficient measure(s) (in %)¹⁹ _____
 or Payback Time (in years) _____
 or Net Present Value (in Euro)²⁰ _____

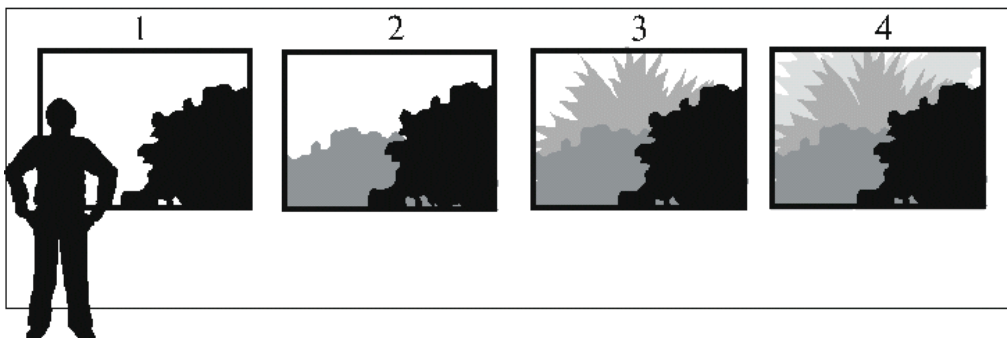
Summarise the energy-efficient measure(s) adopted

Apart from the savings, what are the other benefits of the energy-efficient measure(s) adopted?

Notes

The following notes refer to specific fields of the Survey Form.

4. If you have relevant pictures, indicate their reference.
6. Typical patterns can be broadly divided into four groups:
 - Variable occupation: occupants spend part of their time in the space and part elsewhere, eg where workers spend only part of their time as a working practice.
 - Intermittent scheduled occupation: people occupy the space for relatively short but defined periods, eg a school classroom or a sports hall.
 - Full occupation: occupants are in the space for the entire working day, eg a factory space where occupants are at their machines the entire time.
 - Intermittent occupation: an area visited only occasionally for short periods during the working day, eg storerooms or a warehouse.
7. Window area minus mullions and framing (or approximately 80% of rough opening).
8. e.g. multiply width of the bay by floor-to-floor height.
11. At desk height, look 3 meters in from a representative window and centred on the window. Select the obstruction factor as shown below, by looking at anything outside the building which prevents the direct view of part of the sky.



- Situation 1: less than 50%
 - Situation 2: between 50% and 70%
 - Situation 3: between 70% and 90%
 - Situation 4: more than 90%
- (source: Daylighting Manual, Public Works, Canada, March 1990)
12. Device ensuring the connection of the lamp to the electric supply (e.g. ballast).
 13. Reference given by the manufacturer (see mark on the product).
 14. Taken from manufacturers' catalog.
 15. The reference plane is the surface on which illuminance is measured or specified (e.g. desk surface).
 16. Point(s) where the illuminance was measured or specified (e.g. desk, floor, walls, etc.)
 17. The initial cost is the cost of equipment and installation (equal to zero in the case of an existing installation).
 18. The yearly running cost includes the energy cost and the lighting system maintenance cost.
 19. Considered over a 15-year period.
 20. In the case Net Present Value is used, indicate the number of years and the Discount Rate considered.