


Building	Pilot B1
Photo	
Name	Intelligent Street lighting in Almada
City	Almada
Country	Portugal
Type of Street	Mixed: pedestrian, cyclist, traffic and tram.
Year of Construction	2007
Length of street	Approximately 700 + 800 m mixed use main street and 217480 m ² in the beach area (mainly pedestrian and parking areas)
Number of lamps	Approximately 500 lamps
Car frequency	Heavy traffic on missed use main streets. Low traffic on beach area
ICT System	
System Structure	public light control and management system that will allow the dimming of each light point individually
Technical requirements	Existence or installation of electronic ballasts and controller for each luminary, the segment controller and the server and web based portal software from the system
Frontends and	Web based portal for experts and managers, with flexibility of data, charts, and

Installation information		
Total Luminaries	519	units
installation power	70/150	W

Primary indicators	No.	Baseline	After measures	Unit (per year)
Primary energy consumption	1	129	90	MWh
Specific primary energy consumption	1a	1251	876	KWh/lum
Total electrical energy consumption	2	44	30	MWh
Specific electrical energy consumption	2a	423	296	KWh/lum
CO2 Emissions	5	28	19	ton(CO ₂)
Specific CO2 Emissions	5a	0,3	0,2	kg(CO ₂)/lum
Relative reduction of CO2 Emissions	6	-	30	%
Relative energy savings in primary energy	7	-	30	%
Energy cost savings – actual costs	8	-	1140	€
Relative energy cost savings – actual costs	8a	-	30	%