

Wharf Approach Lighting Plan

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APS was requested to supply a lighting solution for the 72m-long approach to a wharf, which was not being illuminated effectively. The customer wanted a more eco-friendly lighting solution with reduced maintenance costs and enhanced safety outcomes.

A customer approached APS to see if we could provide a safer and more effective lighting solution for the approach to their wharf. Under-illumination of the 72m-long section of road was creating a potential safety issue, with only seven of the 12 existing sodium fixtures in working order.

Tests carried out along the 3m-wide area recorded an average of 3.85 lux at 1.2m and 0.4 lux at 3m from the fixture, which was not sufficient to properly light up the approach road. APS was tasked with providing appropriate lighting (with a minimum lux level of five) to allow safe travel across the approach, which at the same time would also be more eco-friendly and have reduced maintenance costs.

After considering the specific requirements, we put forward a solution to replace the 12 existing 80 watt sodium fixtures with 12 of the Vision X 10 watt LED Junction box fixtures, to be installed in the current mounting position and height.

The LED fixtures, which are spaced at 6m intervals, were able to provide more usable light across the approach than the 80 watt sodium fixtures, with an average lux of 6.41 at 3m and 60.34 lux at 1m. This far exceeded our customer's expectations, not only improving safety onsite but also offering a significant decrease in their power consumption and energy costs.

Tech Specs



Type	40 x 5630 (LG) LEDs
Lumens	1,000 Lu
Beam Patterns	Ultra Flood 180° (UF)
Color Temperature	5000K
Mounting Options	Standard Mount Feet, Pendant or Pole Mount
Photoelectric Cell Option	DDS (Dawn/Dusk Sensor)
Voltage	90-277V AC (LV - Low Voltage)
Wattage	10W
Current Draw	0.09A @ 115V AC, 0.04A @ 230V AC, 0.04A @ 277V AC
Operating Temperature	-40°C to +60°C
Vibration	15.6Grms
IP Rating	IP68, IP69K
Certifications / Ratings	EMC Emission: EN55022, EN61000-3-2, Class A, EN61000-3-3. EMC Immunity: EN55024, EN61000-4-2, 3, 4, 5, 6, 8, 11; light industry level (surge 2KV), criteria A
Short Circuit	Constant current limiting, recovers automatically after fault condition is removed
Housing	Die-Cast 6061 Aluminium, Grey in color
Lens	Polycarbonate Lens
Weight	2 lbs (0.9kg)



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