

HOLOS₂

Holophane's optimised lighting operating system

Lighting controls from Holophane.

In partnership with Metrolight

Optimum light with minimum emissions.



HOLOPHANE[®]
LEADER IN LIGHTING SOLUTIONS

HOLOS2 is designed to give **lowest total cost of ownership**

- Energy Saving
- Carbon Emission reduction
- A one box solution. Utilising all available energy saving technologies, and with the potential to control all types of lighting
- A simple solution for maximum control
- A working system first time round and ‘out of the box’
- Contractor friendly
- Future proof
- Fail safe



Benefits of the **HOLOS2** system

- Integration into BMS
- Full user documentation
- Protected programming data
- Time clock
- Adaptable
- Emergency lighting test and record keeping
- Based on proven technology
- Multiple control options
- Safety & access integration
- Intelligent
- Safe

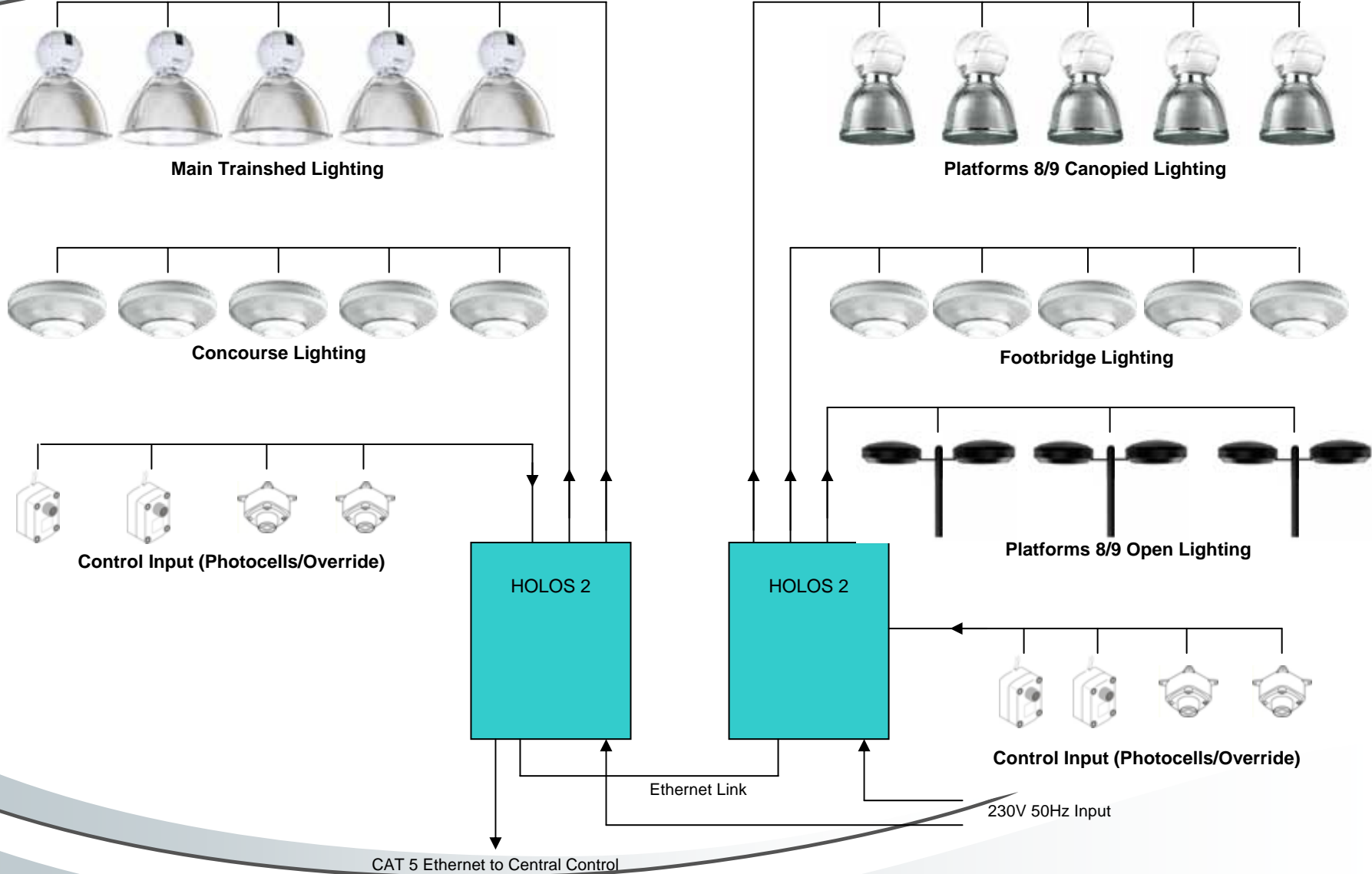


Digital system in a nutshell

- Each ballast will report back a variety of data (49 parameters total) including:
- Current temperature
- Maximum temperature achieved
- Hours run total
- Dimmed hours run
- Full power hours run
- Input power
- Output power (lamp Watts)
- Luminaires individually addressed
- Flash based - no software to buy
- Email alert system
- Dynamic addressing

Holophane's unique solution

Control Schematic for Railway Station



Proof of savings

Calculate Daylight Factor for Top Lit Rooms
Window Details

Calculate Energy Savings

Daylight Factor %

Days Per Week of System Use
 5 6 7

Control System

Main Lighting

Maintained Illuminance [lux]

Maintenance Factor

Switch on Time

Switch off Time

Low Light Periods

Enable Low Lighting

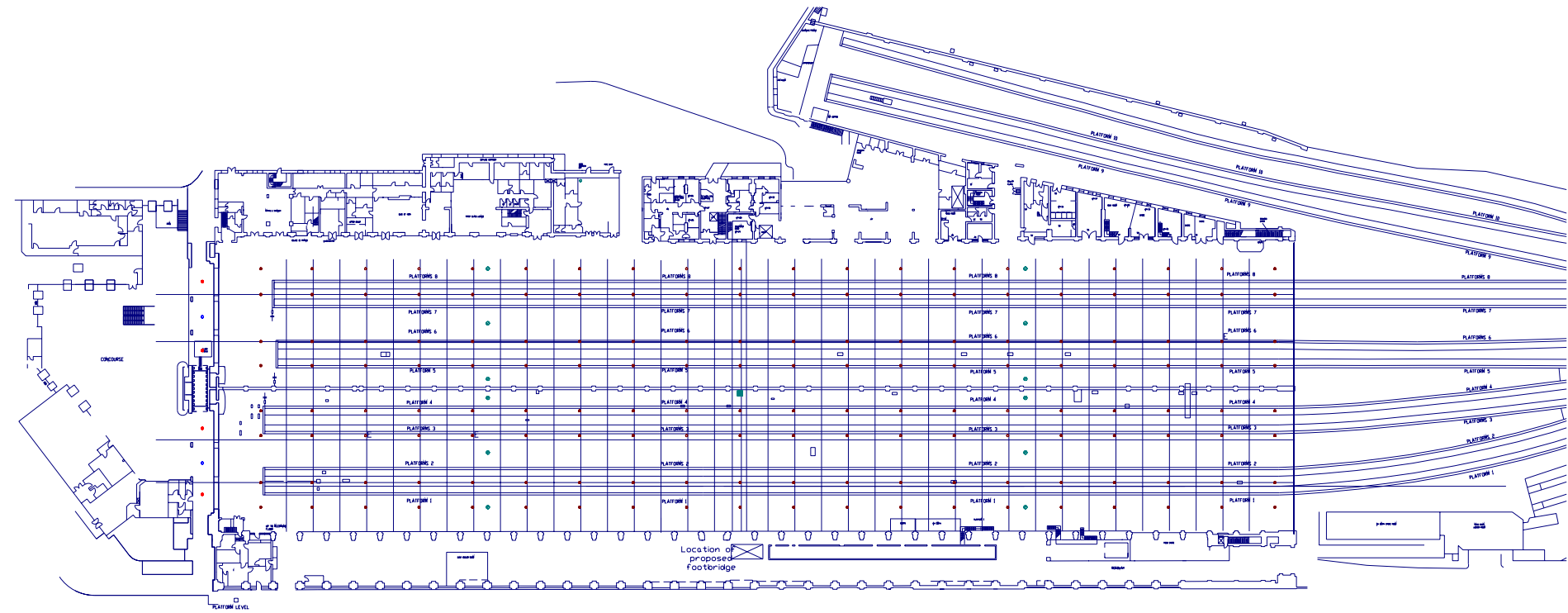
Illuminance [lux]

Switch on for period before main period

Switch off for period after main period



King's Cross Station



King's Cross Station

Burning period from 00:00 to 04:00

Illuminance setting = 50 lux

Energy Savings in this period = 49.98 %

Average burning hours burning this period 4.00 hours

Burning period from 04:00 to 24:00

Illuminance setting = 180 lux

Energy Savings in this period = 57.93 %

Average burning hours burning this period 9.32 hours

Lighting System on for 24.0 hours per day

Lamps burning for 13.3 hours per day

Overall energy saving 56.61 %

Lighting System on for 8,766 hours per year

Lamps burning for 4,866 hours per year



King's Cross Station

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Initial load = 68.16kW

24/7 running costs estimated at £60,000 p.a. with annual relamping programme

HOLOS 2 controlled system returns an energy cost of £26,400 p.a. with bi-annual relamping

Energy cost saving alone = £33,600 in the first year

HOLOS 2 Control system cost for Kings Cross = £22,000



HOLOS2 will:

Reduce your carbon emissions

Reduce energy costs

Give **lowest total cost of ownership**

