ArchilumO lightwall specification

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**Part 1: System general**

1.1 Introduction

ArchilumO LightWall as manufactured by ArchilumO BV

1.2 DESCRIPTION OF THE SYSTEM

LIGHTWALL: Custom size rectangular shaped LED based flicker free intelligent LightPanel. Min. size 300x300mm, max. size 1200x3000mm. Intended for use as individual backlit wall panels, or to create full backlit walls. ‘Frameless’ panel design with 8mm laminated glass or 8mm satin high-grade acrylic diffuser panel. Dali LED driver integrated in the frame of the light panel. Light panels are bespoke and produced on an individual order basis.

**Part 2: product**

\_\_\_\_\_\_ Units ArchilumO LightWall Panels consisting of:

2.1 QUANTITIES - LIGHT PANELS

LightWall: Width \_\_\_\_\_\_mm X Lenght \_\_\_\_\_\_mm \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Light Panels

2.2 LIGHT PANEL PROPERTIES

‘Frameless' panel design: no visible frame, no visible fixings, when viewed from front side resulting in an optimised panel-to-panel joint when positioned side-by-side. Flat luminair: 32mm apparent panel depth. Liquid Nitrogen extruded, aluminium profiles, E6/EV1/10. Laminated 8mm glass diffuser for easy maintenance, scratch resistance, optimised light distribution and glare control, or, high-grade 8mm Satin PMMA (acrylic) front diffuser.1mm PMMA (acrylic) high performance rear reflector to control light on back of the light panel. 48V LED system with on-board 480W DALI LED driver and a connected 5-core power/signal lead.

2.3 LED SPECIFICATIONS

Energy efficient, environment friendly Luxeon LEDS designed for interior architectural applications

Standard White – CCT/Efficacy LED PCB: 2700K/114lm/W - 3000K/120lm/W - 4000K/129 lm/W 5000K/129 lm/W - 6500K/129lm/W

Tuneable White – CCT/Efficacy LED PCB: 2200-6500K/91lm/W-127lm/W

Dynamic RGB

LED Service Life: L80 (tq 25 °C) = 50,000 h

Colour tolerance: MacAdam 3

2.4 FRONT PANEL DESIGN

Standard: 8mm laminated glass diffuser panel, or,

8mm high-grade Satin Opal PMMA (acrylic) diffuser.

Option Printed: custom printed design in the centre of the laminated glass panel, or,

on rear 8mm Satin Transparent PMMA (acrylic) front panel;

print sample reference number: \_\_\_\_\_\_\_

Option Etched: custom etch design on high-grade PMMA panel with or without a glass cover

**PART 3: ADDITIONAL SPECIFICATIONS**

3.1 Fixing system

Wall mount with ArchilumO’s proprietary wall bracket system

3.2 installation

All light panels shall be installed in strict compliance with all local codes, ordinances and manufacturers' recommendations including specific additional requirements as may be called for in the specifications or shown on the drawings.

3.3 LIGHT PANEL CONTROL

Individually Intelligent Panels - integrated 480W DALI LED driver (IEC62386 3CH-PWM LED controller) located within the light panel (type DT6 or DT8 - 3channel) for individual panel calibration, dimming and colour control. Integrated driver ensures flicker free light output.

Full range of fixed and wireless light panel control options.

Panels can be controlled individually, in groups or multiple groups. Remote programming and monitoring option. Supports daylight, motion sensors etc. IOT and Human Centric Lighting ready.

3.4 Storage

All materials shall be stored in strict compliance manufacturers' recommendations including specific additional requirements as may be called for in the specifications or shown on the drawings.