ArchilumO PLANK specification

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**Part 1: System general**

1.1 Introduction

ArchilumO PlaNk (EleMents Collection) as manufactured by ArchilumO BV

1.2 DESCRIPTION OF THE SYSTEM

PlaNk: a custom size Rectangular-shaped LED lighting system to create large, homogenously lit, flicker free light panels. PlaNk light panels are 300mm, 450mm or 600mm wide and custom in length – between 1000mm and 3000mm. Intended for use as an individual luminair or as part of an arrangement. Ceiling or Wall mount. ‘Frameless’ panel design with 8mm satin high-grade acrylic diffuser panel. DALI LED driver integrated in the frame of the light panel. PlaNk light panels are bespoke and produced on an individual order basis.

**Part 2: product**

\_\_\_\_\_\_ Units ArchilumO PlaNk Light Panels consisting of:

2.1 QUANTITIES - LIGHT PANELS

PlaNk 300 length \_\_\_\_\_\_mm: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Light Panels

PlaNk 450 length \_\_\_\_\_\_mm: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Light Panels

PlaNk 600 length \_\_\_\_\_\_mm: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Light Panels

2.2 LIGHT PANEL PROPERTIES

‘Frameless' panel design: no visible frame, no visible fixings, when viewed from front side. Flat luminair: 32mm apparent panel height.

Liquid Nitrogen extruded, aluminium profiles, E6/EV1/10. High-grade 8mm Satin PMMA (acrylic) front diffuser for optimised light distribution and glare control. 1,5mm PMMA (acrylic) rear diffuser or 1mm PMMA (acrylic) rear reflector to control light on back of the light panel.

48V LED system with integrated 480W DALI LED driver within the panel – type DT6 or DT8 – 3 channel and a connected decorative 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 LIGHT PANEL LED PERFORMANCE

‘1Way’ (1mm PMMA Rear Reflector)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| PlaNk | Flux Luminair/1000mm length | | | | | |
| CCT | 2700K | 3000K | 4000K | 5000K | 6500K | TW 2200-6500K (normalised) |
|  |  |  |  |  |  |  |
| PlaNk 300 | 6.792lm | 7.178lm | 7.718lm | 7.718lm | 7.718lm | 5.551lm |
| PlaNk 450 | 7.492lm | 7.918lm | 8.514lm | 8,514lm | 8.514lm | 6.124lm |
| PlaNk 600 | 7.792lm | 8.235lm | 8,855lm | 8.855lm | 8.855lm | 6.369lm |

‘2Way’ (1,5mm PMMA Rear Diffuser)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| PlaNk | Flux Luminair/1000mm length | | | | | |
| CCT | 2700K | 3000K | 4000K | 5000K | 6500K | TW 2200-6500K (normalised) |
|  |  |  |  |  |  |  |
| PlaNk 300 | 6.554lm | 6.926lm | 7.448lm | 7.448lm | 7.448lm | 5.357lm |
| PlaNk 450 | 7.230lm | 7.641lm | 8.216lm | 8.216lm | 8.216lm | 5.909lm |
| PlaNk 600 | 7.520lm | 7.947lm | 8.545lm | 8.545lm | 8.545lm | 6.146lm |

2.5 FRONT PANEL DESIGN

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

Optional: printed design on rear 8mm Satin Transparent PMMA (acrylic) front panel;

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

**PART 3: ADDITIONAL SPECIFICATIONS**

3.1 Fixing system

PlaNk light panels will be suspended from the ceiling with the ArchilumO 1,5mm diameter wire suspension system – adjustable at the luminair -and/or 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) within the 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.