ArchilumO compose 600 specification

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**Part 1: System general**

1.1 Introduction

ArchilumO CompoSe 600 as manufactured by ArchilumO BV

1.2 DESCRIPTION OF THE SYSTEM

COMPOSE 600: 600mm wide modular LED lighting system to create flicker free custom lighting installations for ceilings, walls or crossovers. CompoSe has 8 discreet modular light panel shapes that can be connected to form a continuous installation, or they can be used as individual luminairs when fully framed. 'Connected' panel-ends are frameless to minimise the panel-to-panel joint. Panels are mechanically connected through a connector piece and electronically connected by the Electronic Panel Connector (48V + DALI). One Power/DALI cable feeds multiple CompoSe modules (up to 480W) to minimise installation time and visual clutter. 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 CompoSe 600 Light Panels consisting of:

2.1 QUANTITIES - LIGHT PANELS

CompoSe 600SQ: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Light Panels

CompoSe 600R – length \_\_\_\_\_\_mm: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Light Panels

CompoSe 600L90: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Light Panels

CompoSe 600T: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Light Panels

CompoSe 600L135: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Light Panels

CompoSe 600Y: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Light Panels

CompoSe 600C: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Light Panels

CompoSe 600CV: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 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. Frameless panel ends with connectors where panels join in a CompoSe array to obtain an optimised panel-to-panel joint.

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)l rear reflector to control light on back of the light panel.

48V LED system with integrated DALI LED driver within the panel – type DT6 or DT8 – 3 channel, Electronic Panel Connector 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)

|  |  |
| --- | --- |
| CompoSe 600 | Flux Luminair |
| CCT | 2700K | 3000K | 4000K | 5000K | 6500K | TW 2200-6500K (normalised) |
|  |  |  |  |  |  |  |
| C600 SQ | 4.675lm | 4.941lm | 5.313lm | 5.313lm | 5.313lm | 3.821lm |
| C600 R (l=1200mm) | 9.351lm | 9.882lm | 10.626lm | 10.626lm | 10.626lm | 7.643lm |
| C600 L90 |  15.082lm | 15.939lm | 17.139lm | 17.139lm | 17.139lm | 12.327lm |
| C600 T |  17.696lm | 18.702lm | 20.109lm | 20.109lm | 20.109lm | 14.464lm |
| C600 L135 | 10.009lm | 10.578lm | 11.374lm | 11.374lm | 11.374lm | 8.181lm |
| C600 Y | 15.390lm | 16.264lm | 17.488lm | 17.488lm | 17.488lm | 12.579lm |
| C600 C | 13.824lm | 14.609lm | 15.709lm | 15.709lm | 15.709lm | 11.299lm |
| C600 CV | 6.475lm | 6.843lm | 7.358lm | 7.358lm | 7.358lm | 5.293lm |

‘2Way’ (1,5mm PMMA Rear Diffuser)

|  |  |
| --- | --- |
| CompoSe 600 | Flux Luminair |
| CCT | 2700K | 3000K | 4000K | 5000K | 6500K | TW 2200-6500K (normalised) |
|  |  |  |  |  |  |  |
| C600 SQ | 4.512lm | 4.768lm | 5.127lm | 5.127lm | 5.127lm | 3.688lm |
| C600 R (l=1200mm) | 9.024lm | 9.536lm | 10.254lm | 10.254lm | 10.254lm | 7.375lm |
| C600 L90 | 14.554lm | 15.381lm | 16.539lm | 16.539lm | 16.539lm | 11.896lm |
| C600 T | 17.077lm | 18.048lm | 19.406lm | 19.406lm | 19.406lm | 13.598lm |
| C600 L135 | 9.659lm | 10.208lm | 10.976lm | 10.976lm | 10.976lm | 7.895lm |
| C600 Y | 14.851lm | 15.695lm | 16.877lm | 16.877lm | 16.877lm | 12.139lm |
| C600 C | 13.304lm | 14.098lm | 15.159lm | 15.159lm | 15.159lm | 10.903lm |
| C600 CV | 6.249lm | 6.604lm | 7.101lm | 7.101lm | 7.101lm | 5.107lm |

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

CompoSe 600 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.

Electronic Panel Connector to feed and control up to 480W CompoSe 600 panels, with 1 Power/DALI cable.

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.