ArchilumO WING specification

manufactured & supplied by:

ArchilumO BV

Energieweg 21,

1271 EC Huizen,

The Netherlands

Phone: +31 (0) 880 456 000

Online: [www.archilumo.com](http://www.archilumo.com)

REpRESENTED by:

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Mobile: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

E-mail: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Part 1: System general**

1.1 Introduction

ArchilumO WiNg (EleMents Collection) as manufactured by ArchilumO BV

1.2 DESCRIPTION OF THE SYSTEM

WiNg: a V-shaped LED lighting system to create large, homogenously lit, flicker free light panels. WiNg light panels are 300mm and 450mm wide and come in 1000mm, 1500mm, 2000mm, 2500mm, 3000mm lengths. 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. BoaRd light panels are bespoke and produced on an individual order basis.

**Part 2: product**

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

2.1 QUANTITIES - LIGHT PANELS

WiNg 300 – 1000mm: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Light Panels

WiNg 300 – 1500mm: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Light Panels

WiNg 300 – 2000mm: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Light Panels

WiNg 300 – 2500mm: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Light Panels

WiNg 450 – 1500mm: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Light Panels

WiNg 450 – 2000mm: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Light Panels

WiNg 450 – 2500mm: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Light Panels

WiNg 450 – 3000mm: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 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)

|  |  |
| --- | --- |
| WiNg | Flux Luminair |
| CCT | 2700K | 3000K | 4000K | 5000K | 6500K | TW 2200-6500K (normalised) |
|  |  |  |  |  |  |  |
| Wing 300 - 1000mm | 6.479lm | 6.847lm | 7.363lm | 7.363lm | 7.363lm | 5.296lm |
| Wing 300 - 1500mm | 10.154lm | 10.730lm | 11.538lm | 11.538lm | 11.538lm | 8.299lm |
| Wing 300 - 2000mm | 13.753lm | 14.535lm | 15.629lm | 15.629lm | 15.629lm | 11.241lm |
| Wing 300 - 2500mm | 17.444lm | 18.435lm | 19.823lm | 19.823lm | 19.823lm | 14.258lm |
| Wing 450 - 1500mm | 11.201lm | 11.837lm | 12.728lm | 12.728lm | 12.728lm | 9.155lm |
| Wing 450 - 2000mm | 15.172lm | 16.034lm | 17.240lm | 17.240lm | 17.240lm | 12.400lm |
| Wing 450 - 2500mm | 19.243lm | 20.337lm | 21.868lm | 21.868lm | 21.868lm | 15.729lm |
| Wing 450 - 3000mm | 22.832lm | 24.130lm | 25.946lm | 25.946lm | 25.946lm | 18.662lm |

‘2Way’ (1,5mm PMMA Rear Diffuser)

|  |  |
| --- | --- |
| WiNg | Flux Luminair |
| CCT | 2700K | 3000K | 4000K | 5000K | 6500K | TW 2200-6500K (normalised) |
|  |  |  |  |  |  |  |
| Wing 300 - 1000mm | 6.253lm | 6.608lm | 7.105lm | 7.105lm | 7.105lm | 5.110lm |
| Wing 300 - 1500mm | 9.798lm | 10.355lm | 11.134lm | 11.134lm | 11.134lm | 8.009lm |
| Wing 300 - 2000mm | 13.272lm | 14.026lm | 15.082lm | 15.082lm | 15.082lm | 10.848lm |
| Wing 300 - 2500mm | 16.834lm | 17.791lm | 19.130lm | 19.130lm | 19.130lm | 13.759lm |
| Wing 450 - 1500mm | 10.809lm | 11.425lm | 12.283lm | 12.283lm | 12.283lm | 8.835lm |
| Wing 450 - 2000mm | 14.641lm | 15.743lm | 16.637lm | 16.637lm | 16.637lm | 11.967lm |
| Wing 450 - 2500mm | 18.570lm | 19.625lm | 21.103lm | 21.103lm | 21.103lm | 15.178lm |
| Wing 450 - 3000mm | 22.033lm | 23.285lm | 25.038lm | 25.038lm | 25.038lm | 18.009lm |

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

WiNg 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.