



## **APPENDIX**

### List of Lighting Fixtures

Type	Description of the fixture
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**LED1** Modular linear LED System to consist of LED modules, an aluminum mounting profile and a flat acrylic diffuser lens.

Fixture to be fed by a single cable able to carry both power and data like a DMX cable. The cable system is to be feed though type (home run to the controller from each fixture is not permitted). The power is to be fed from the back of the fixture so that the cables are not visible once installed. Each fixture has to be able to be addressed independently from the Lighting Playback Controller.

**Fixture total dimensions:** 3388 mm long section, 60 mm high or less, 50 mm wide or less. This includes the driver if it is required. At the contractor/supplier's discretion, the section length can be divided into smaller sections that sum up to the required length mentioned above. The joint in the sections must not be visible while looking at the light fixture from a 2 m distance so that the fixture output looks continuous through out the fixture.

**Aluminum Mounting Profile:** Extruded aluminum mounting designed to host lighting module and acrylic diffuser. The aluminum mounting is to be 3388 mm long total. The mounting is to be painted black. The aluminum housing is to have two (2) 25 mm x 100 mm slotted holes drilled at the back to allow cables to come in. The top and bottom slotted holes are to start 44 mm from the edge of the aluminum housing.

**Lighting module:** total length 3300 mm.

Light Temperature : White; 3500K

230 Lumens / 300 mm (delivered), 5 W / 300 mm

The first and last modules are to have the connection cable of at least 300 mm with a snap-in connector at the end.

Each module is to snap into the aluminum mounting profile, be fully sealed (IP66) and be impact resistant. It is to have an operating temperature range from +40C to -40C. Modules are to be dimmable.

**Acrylic Diffuser:** Each acrylic diffuser cover lens is to snap over the modules, into the aluminum mounting, over its entire length.

Desired look:



Type	Description of the fixture
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**LED1R** Modular linear LED System to consist of LED modules, an aluminum mounting profile and a flat acrylic diffuser lens.

Fixture to be fed by a single cable able to carry both power and data like a DMX cable. The cable system is to be feed though type (home run to the controller from each fixture is not permitted). The power is to be fed from the back of the fixture so that the cables are not visible once installed. Each fixture has to be able to be addressed independently from the Lighting Playback Controller.

**Fixture total dimensions:** 3388 mm long section, 60 mm high or less, 50 mm wide or less. This includes the driver if it is required. At the contractor/supplier's discretion, the section length can be divided into smaller sections that sum up to the required length mentioned above. The joint in the sections must not be visible while looking at the light fixture from a 2 m distance so that the fixture output looks continuous through out the fixture.

**Aluminium mounting profile:** Extruded aluminum mounting designed to host lighting module and acrylic diffuser. The aluminum mounting is to be 3388 mm long total. The mounting is to be painted black. The aluminum housing is to have two (2) 25 mm x 100 mm slotted holes drilled at the back to allow cables to come in. The top and bottom slotted holes are to start 44 mm from the edge of the aluminum housing.

**Light module:** total length: 3300 mm separated in 300 mm color changing section and 3000 mm white section.

Light Temperature:

- Color changing section: Able to provide any RGB Red-Green-Blue color when controlled by the controller.
- White section; 3500K

230 Lumens / 300 mm (delivered), 5 W / 300 mm

The white and color changing sections have to be controlled separately.

The first and last modules are to have the connection cable of at least 300 mm with a snap-in connector at the end.

Each module is to snap into the aluminum mounting profile, be fully sealed (IP66) and be impact resistant. It is to have an operating temperature range from +40C to -40C. Modules are to be dimmable.

**Acrylic Diffuser:** Each acrylic diffuser cover lens is to snap over the modules, into the aluminum mounting, over its entire length.

Desired look:



Type	Description of the fixture
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**LED2** Modular linear LED System to consist of LED modules, an aluminum mounting profile and a flat acrylic diffuser lens.

Fixture to be fed by a single cable able to carry both power and data like a DMX cable. The cable system is to be feed though type (home run to the controller from each fixture is not permitted). The power is to be fed from the back of the fixture so that the cables are not visible once installed. Each fixture has to be able to be addressed independently from the Lighting Playback Controller.

**Fixture total dimensions:** 3370 mm long section, 60 mm high or less, 50 mm wide or less. This includes the driver if it is required. At the contractor/supplier's discretion, the section length can be divided into smaller sections that sum up to the required length mentioned above. The joint in the sections must not be visible while looking at the light fixture from a 2 m distance so that the fixture output looks continuous through out the fixture.

**Aluminum Mounting Profile:** Extruded aluminum mounting designed to host lighting module and acrylic diffuser. The aluminum mounting is to be 3370 mm long total. The mounting is to be painted black. The aluminum housing is to have two (2) 25 mm x 100 mm slotted holes drilled at the back to allow cables to come in. The top slotted hole is to start 44 mm from the edge of the aluminum housing. The bottom hole is to start 226 mm from the bottom edge of the aluminium housing.

**Lighting module:** total length 3000 mm.

Light Temperature : White; 3500K

230 Lumens / 300 mm (delivered), 5 W / 300 mm

The first and last modules are to have the connection cable of at least 300 mm with a snap-in connector at the end.


The lighting module is to be aligned with the top of the fixture (creating a cable void at the bottom).


Each module is to snap into the aluminum mounting profile, be fully sealed (IP66) and be impact resistant. It is to have an operating temperature range from +40C to -40C. Modules are to be dimmable.

**Acrylic Diffuser:** Each acrylic diffuser cover lens is to snap over the modules, into the aluminum mounting, over its entire length.

Desired look:



Type	Description of the fixture
LED4A	<p>Wallwash Optic Fixture for window illumination.</p> <p>Each module is to be fully sealed (IP66) and be impact resistant. It is to have an operating temperature range from +50C to -40C. Each fixture has to be able to be addressed independently from the Lighting Playback Controller.</p> <p>Body: One piece aluminum body without end caps.</p> <p>400 Lumens / 300 mm (delivered), 5 W / 300 mm</p> <p>Optically clear tempered glass lens: no yellowing over time.</p> <p>Optics : 10 ° x 60 °</p> <p>Diffusing optical film to create uniform light output.</p> <p>Fixture is to be powered by a single cable. The power is to be fed from the side of the fixture so that the cables are not visible once installed.</p> <p>Through wiring for end-to-end connection via snap-in connectors: no junction boxes.</p> <p>Fixture size: 56 mm high, 72 mm wide (W/H to be plus or minus 10% of length indicated above.) Length: 5400 mm.</p> <p>Desired look:</p> 

Type	Description of the fixture
LED4B	<p>Wallwash Optic Fixture for window illumination.</p> <p>Each module is to be fully sealed (IP66) and be impact resistant. It is to have an operating temperature range from +50C to -40C. Each fixture has to be able to be addressed independently from the Lighting Playback Controller.</p> <p>Body: One piece aluminum body without end caps.</p> <p>400 Lumens / 300 mm (delivered), 5 W / 300 mm</p> <p>Optically clear tempered glass lens: no yellowing over time.</p> <p>Optics : 10 ° x 60 °</p> <p>Diffusing optical film to create uniform light output.</p> <p>Fixture is to be powered by a single cable. The power is to be fed from the side of the fixture so that the cables are not visible once installed.</p> <p>Through wiring for end-to-end connection via snap-in connectors: no junction boxes.</p> <p>Fixture size: 56 mm high, 72 mm wide (W/H to be plus or minus 10% of length indicated above.) Length: 6900 mm.</p> <p>Desired look:</p> 
LED5	<p>The low-profile, rugged die-cast aluminum construction, lighting fixture installed on the perimeter of the building.</p> <p>LED fixture, up to 20W with a minimum of 1600 Lumens, 3500 K</p> <p>Bug Rating : B1-U0-G0</p> <p>Voltage to be 120V or 347V as needed. Contractor is responsible to order the correct voltage for the existing circuit.</p> <p>Adjustable photocell detector is to be provided with individual fixtures.</p>

Type	Description of the fixture
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**LED6** Modular linear LED System to consist of LED modules, an aluminum mounting profile and a flat acrylic diffuser lens.

Fixture to be fed by a single cable able to carry both power and data like a DMX cable. The cable system is to be feed though type (home run to the controller from each fixture is not permitted). The power is to be fed from the back of the fixture so that the cables are not visible once installed. Each fixture has to be able to be addressed independently from the Lighting Playback Controller.

**Fixture total dimensions:** 600 mm long section, 60 mm high or less, 50 mm wide or less. This includes the driver if it is required.

**Aluminium mounting profile:** Extruded aluminum mounting designed to host lighting module and acrylic diffuser. The aluminum mounting is to be 600 mm long total.

**Light module:** 300 mm color changing section and 300 mm white section.

Light Temperature:

- Color changing section: Able to provide any RGB Red-Green-Blue color when controlled by the controller.
- White section; 3500K

230 Lumens / 300 mm (delivered), 5 W / 300 mm

The white and color changing sections have to be controlled separately.

Each module is to snap into the aluminum mounting profile, be fully sealed (IP66) and be impact resistant. It is to have an operating temperature range from +40C to -40C. Modules are to be dimmable.

**Acrylic Diffuser:** Each acrylic diffuser cover lens is to snap over the modules, into the aluminum mounting, over its entire length.

Desired look:



This fixture will be installed in the basement, near to control module to allow easy testing and scene programming.



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Type	Description of the fixture
F	Existing, light fixture installed at exit and along the perimeter of the building.

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