



**Date :** September 30, 2014

**Projet:** Tender 01B46-14-0079  
Lighting Retrofit – T12 to T8 Fluorescent Conversion  
Sherbrooke

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## **ADDENDUM N<sup>o</sup> 2**

### **TECHNICAL SPECIFICATIONS**

#### **Section 3.2**

**.1 ADD**

The contractor must clean the diffusers and louvers before he reinstalls them.

**.2 REPLACE**

All T12 lamps removed by the contractor shall be handed over to the landlord in cardboard boxes with individual spacers.

**BY**

All T12 lamps ballasts and fixtures removed by the contractor shall be disposed outside of the property by the contractor and in compliance with the regulations.

**.3 REPLACE**

2 Lamp T12 fixture = 603 units

**BY**

2 Lamp T12 fixture = 528 units

## Section 4.1

### .1 REPLACE

<i>Lamp Design and Wattage</i>	<i>Base</i>	<i>Type</i>	<i>Initial Lumens</i>	<i>Life hr</i>	<i>Length (in)</i>	<i>Colour temperature °K (CRI)</i>
T8-32	Medium 2 pin	IS	2950 Initial	(30 000) IS	48	4100 (≥85)

### BY

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T8-32	Medium 2 pin	IS	2950	30 000 IS	48	4100 (≥85)

### .2 REPLACE

Lumen maintenance: 95% or 2800 design lumens

### BY

Lumen maintenance : 95%  
Mean Lumens : 2800 lumens

## Section 4.2.1

### .1 REPLACE

**Rating: voltage is 347 volts**, 60 Hz, for use with 28/ 32W, rapid start or instant start lamps.

**BY**

**Rating: voltage is 347 volts**, 60 Hz, for use with 28/ 32W, instant start lamps.

**.4 REPLACE**

Power factor: minimum 90 % with 95% of rated lamp lumens.

**PAR**

Power Factor : 98% min.

**.9 REPLACE**

Operating frequency of electronic ballast: 21 kHz minimum.

**PAR**

Operating frequency of electronic ballast: 40 kHz minimum.

**.10 REPLACE**

Ballast Factor: greater than 0.90.

**PAR**

Ballast Factor: 0.77

Remove table Performance Characteristics for Ballasts.

**ADD NEW SECTION**

1. The fixtures listed in the below table shall not be retrofitted but replaced.

<b>Location</b>	<b>Number of fixtures</b>
Room #147	9
Room next to #147	1
Room #135	1
Room A-3	10
Room A-4	1
Room A-5	1
Room #254	1
Room #301	28
Service space	18
<b>Total</b>	<b>70</b>

Replacement fixtures : Philips, model 1FDC232-PP-347-1/2-EB10I or approved equivalent.

The contractor must provide all required material and workmanship to obtain a compliant and functional installation.

2. The lighting fixtures located in the 4 refrigerated rooms (5-2 tubes fixtures in total) must be retrofitted to LED T8 (347V). The contractor must provide all required material and workmanship to obtain a compliant and functional installation. Provide two spare tubes.

**END OF ADDENDUM N<sup>o</sup> 2**