**Node Ceiling System**

1. Manufacturer: PARC, a Price Company
2. Manufacturer Contact: info@parc-ceilings.com
3. Product: Node
4. General
	* + 1. All integrated devices shall exist as a coordinated family of parts which includes **(delete as appropriate):** Channels, Lighting, Diffusers, Security Cameras, Speakers, Sprinklers, Emergency Lighting **(Europe Only)** and Multisensors
			2. All round devices shall be 90 millimetre in diameter
			3. All fixings shall be concealed
			4. The manufacturer shall provide coordinated shop drawings, including device locations

Ceiling channel, including levelling features and alignment features

The poweer and data module shall contain Price 4ch drivers able to be addressable and communicate on an MS/TP BACnet network.Ceiling-and wall-mounted dual technology sensors use both passive infrared and ultrasonic technologies for sensing occupancy providing maximum reliability. Ceiling-mounted sensors are recommended for larger open spaces with ceilings less than 12 feet height. Wall-mounted sensors are recommended for spaces with pendant fixtures, ceiling fans, or ceilings more than 12 feet high.

If more than one model is required, the optional choice can be used to assign type designations. Make sure that designations indicated on the drawings are consistent with those specified here. Visit [www.lutron.com](http://www.lutron.com/Service-Support/Technical/Pages/Overview.aspx) for data sheets and other information.

* + - 1. Description:
				1. Furnish and install Node Channel units in the configurations and locations as indicated on the plans.
			2. The Channel shall be an extrusion suitable for installation of the Node devices.
				1. The Channel shall be factory machined to accept Node devices or third party devices (by others) in the locations as indicated on the plans. The locations shall be confirmed in shop drawings.
				2. Housings for Node devices shall be factory installed.
			3. Channel Options **(select all that apply):**
				1. Flush Channel
				2. Flush Channel with Diffuser
				3. Recessed Channel
			4. Finish:
				1. The channel shall be finished in **(select one):**

RAL 9016 - Price B30 White powder coat

RAL 9010 – Price B32 White powder coat

Price B17 Black powder coat

Other, including anodized finishes, by agreement with the manufacturer

* + - * 1. Recessed channel device housings shall be provided in the following finish options **(select one):**
1. White to match Price B30
2. Black to match Price B17
	* + - 1. Powder coat finish shall have the following properties:
3. Thickness shall be a minimum of 2.0 mils
4. The finish shall have a hardness of ≥ H when tested to ASTM D3363
5. An impact resistance of ≥ 4.52 Newton Metres [40 inch-pounds] when tested to ASTM D2794
	* + - 1. Anodized finish shall have the following properties:
6. Architectural grade anodizing
7. Performed by the channel manufacturer
8. Secondary finishing process applied to mitigate die lines
9. The following devices shall be mounted per the selected mounting option.
	* + 1. Node Downlight
				1. Description:

The contractor shall furnish and install Node Downlight units in the configurations and locations as indicated on the plans

* + - * 1. General:

The downlight excludes lighting driver

The downlight shall be 90 millimetre in diameter

The downlight shall be a Light Emitting Diode (LED) fixture

The downlight shall be available in the following beam widths **(select all that apply):**

13 degrees

24 degrees

48 degrees

67 degrees

The downlight shall be available in the following colour temperatures **(select all that apply):**

3000 Kelvin

3500 Kelvin

4000 Kelvin

The downlight shall have Colour Rendering Index (CRI) ≥ 90

* + - * 1. Mounting Options:
1. The device housing shall be suitable for the ceiling type **(select all that apply)**:

Trimless Mount

Recessed Channel Mounted

Flush Channel Mounted

* + - 1. Node Spotlight
				1. Description:

The contractor shall furnish and install Node Spotlight units in the configurations and locations as indicated on the plans

* + - * 1. General:

The spotlight excludes lighting driver

The spotlight shall be 90 millimetre in diameter

The spotlight shall be a Light Emitting Diode (LED) fixture

The spotlight shall be available in the following beam widths **(select all that apply):**

13 degrees

24 degrees

48 degrees

67 degrees

The spotlight shall be available in the following colour temperatures **(select all that apply):**

3000 Kelvin

3500 Kelvin

4000 Kelvin

The spotlight shall have Colour Rendering Index (CRI) ≥ 90.

* + - * 1. Mounting Options:

The device housing shall be suitable for the ceiling type **(select all that apply)**:

Surface Mounted

Trimless Mount

Recessed Channel Mounted

Flush Channel Mounted

* + - 1. Node Linear Light
				1. Description:

The contractor shall furnish and install Node Linear Light units in the configurations and locations as indicated on the plans

* + - * 1. General:

The linear light excludes lighting driver

The linear light shall be 1154 millimetres in length and 100 millimetres in width

The linear light shall be a Light Emitting Diode (LED) fixture

* + - * 1. Mounting Options:

The device housing shall be suitable for the ceiling type (**select all that apply**):

Recessed Channel Mounted

Flush Channel Mounted

* + - 1. Node Plenum
				1. Description:

The contractor shall furnish and install Node plenums in the configurations and locations as indicated on the plans.

* + - * 1. General:

The plenum shall be available in the following lengths (**select all that apply**):

600 millimetres [2 feet]

1200 millimetres [4 feet]

Other, by agreement with the manufacturer

Laboratory test data shall be provided

* + - * 1. Mounting Options:

The plenum shall be suitable for the channel types (**select all that apply**):

Recessed Channel Mounted

Flush Channel with Diffuser Mounted

* + - 1. Node Multisensor
				1. Description:

The contractor shall furnish and install Node Multisensor units in the configurations and locations as indicated on the plans.

* + - * 1. General:

The sensor shall be compatible with the following control protocol **(select one):**

BACNet (Price Total Room Control)

DALI

Lutron

The sensor shall detect occupancy

The sensor shall detect lighting levels **(delete if Lutron sensor selected)**

The sensor casing shall be made from PC/ABS blend

The sensor shall be housed in a 90 millimetre diameter Node housing

The device shall have tool-free installation when location has been factory coordinated

* + - * 1. Mounting Options:

The device housing shall be suitable for the ceiling type **(select all that apply)**:

Surface Mounted

Trimless Mount

Recessed Channel Mounted

Flush Channel Mounted

* + - * 1. Finish Options:

The device face shall be finished as follows **(select all that apply)**:

White Plastic (PC/ABS Blend)

Black Plastic (PC/ABS Blend)

Metal face with Price powder coat finish to match

Metal face with Price anodized finish

* + - 1. Node Emergency Light **(Europe Only)**
				1. Description:

The contractor shall furnish and install Node Emergency Light units in the configurations and locations as indicated on the plans.

* + - * 1. General:

The emergency light shall have an integrated status indicator Light Emitting Diode (LED)

The emergency light shall be Safety Extra Low Voltage (SELV) compliant

The emergency light shall be compatible with standard and DALI AutoTest control gear

The emergency light shall deliver a minimum of 80 lumens

The emergency light shall have an integrated, rechargeable battery pack for 3-hours operation

The emergency light casing shall be made from PC/ABS blend

The emergency light shall be housed in a 90 millimetre diameter Node housing

The device shall have tool-free installation when location has been factory coordinated

* + - * 1. Mounting Options:

The device housing shall be suitable for the ceiling type **(select all that apply)**:

Surface Mounted

Trimless Mount

Recessed Channel Mounted

Flush Channel Mounted

* + - * 1. Finish Options:

The device face shall be finished as follows **(select all that apply)**:

White Plastic (PC/ABS blend)

Black Plastic (PC/ABS blend)

Aluminium face with Price powder coat finish to match

Aluminium face with Price anodized finish

* + - 1. Node Speaker
				1. Description:

The contractor shall furnish and install Node Speaker units in the configurations as indicated on the plans.

* + - * 1. General:

The speaker pattern shall be factory machined into the channel with a diameter of 86 millimetre; diameter of perforations shall be 1.8 millimetre maximum with a free area of 41%

The speaker connection type shall be universal binding posts

The speaker shall be available in the following impedance options **(select all that apply):**

8 Ohm

16 Ohm

* + - * 1. Mounting Options:

The device housing shall be suitable for the channel type **(select all that apply)**:

Recessed Channel Mounted

Flush Channel Mounted

* + - 1. Node Security Camera
				1. Description:

The contractor shall furnish and install Node Security Cameras in the configurations as indicated on the plans.

* + - * 1. General:

The Security Camera shall provide HDTV 1080p video with Wide Dynamic Range (WDR)

The Security Camera shall be a 3-axis camera

Horizontal Field of View: 106 degrees

Vertical Field of View: 59 degrees

The security camera casing shall be made from PC/ABS blend

The security camera shall be housed in a 90 millimetre diameter Node housing

The device shall have tool-free installation when location has been factory coordinated

* + - * 1. Mounting Options:

The device housing shall be suitable for the ceiling type **(select all that apply)**:

Trimless Mount

Recessed Channel Mounted

Flush Channel Mounted

* + - * 1. Finish Options:

The device face shall be finished as follows **(select all that apply)**:

White Plastic (PC/ABS blend)

Black Plastic (PC/ABS blend)

Aluminium face with Price powder coat finish to match

Aluminium face with Price anodized finish

* + - 1. Node Sprinkler
				1. Description:

The contractor shall furnish and install Node Sprinkler casings in the configurations as indicated on the plans

* + - * 1. General:

The Node Sprinkler provides a location for the installation of the following sprinkler models, supplied by others **(select all that apply)**:

Rapidrop model RD102

Rapidrop model RD105

Rapidrop model RD107

The sprinkler casing shall be made from PC/ABS blend

The Node Sprinkler casing shall be provided in a 90 millimetre diameter Node housing.

* + - * 1. Mounting Options:

The device housing shall be suitable for the ceiling type **(select all that apply)**:

Trimless Mount

Flush Channel Mounted

* + - * 1. Finish Options:

The device face shall be finished as follows **(select all that apply)**:

White Plastic (PC/ABS blend)

Black Plastic (PC/ABS blend)

Aluminium face with Price powder coat finish to match

Aluminium face with Price anodized finish

* + - 1. Rose Node
				1. Description:

The contractor shall furnish and install Rose Nodes units in the configurations as indicated on the plans.

* + - * 1. General:

The Rose Node provides a location for the installation of a single pendant or suspension light

The Rose Node casing shall be made from PC/ABS blend

The Rose Node shall be housed in a 90 millimetre diameter Node housing

The standard hole diameter in the Rose Node shall be 3 millimetre

The device shall have tool-free installation when location has been factory coordinated

* + - * 1. Mounting Options:

The device housing shall be suitable for the ceiling type **(select all that apply)**:

Surface Mounted

Trimless Mount

Recessed Channel Mounted

Flush Channel Mounted

* + - * 1. Finish Options:

The device face shall be finished as follows **(select all that apply)**:

White Plastic (PC/ABS blend)

Black Plastic (PC/ABS blend)

Aluminium face with Price powder coat finish to match

Aluminium face with Price anodized finish