A network controlled exterior/interior color changing accent or flood lighting system shall be provided under the Division 26 contractor, to be integrated into the Johnson Controls Metasys Extended Architecture front end.

The lighting system shall be an Acuity Brands system, with eight scenes being controlled by a Nicolaudie S.T.I.C.K. DE3 controller and utilizing Acuity Brands™ Winona Parts LED fixtures. A representative illustration is located on the next page.

1.0 BACnet Lighting Controller

1. Lighting controller shall be either:
   a. Johnson Controls NCE-2560: For standalone BACnet over IP systems.
   b. Johnson Controls IOM-3731: For connection to a BACnet MSTP system

2. The lighting controller shall have 8 binary outputs available. These outputs will be wired to relays that will activate input ports (contact closure) on the Nicolaudie S.T.I.C.K. DE3 controller. Please refer to wiring details on the mechanical plans.

3. Each building NAE which has a Blue Light EIP shall have a backup Schedule Object named “Roof Top Lighting”. This schedule shall be a back up to the Campus Exterior Lighting EIP.

4. Each building NAE which has a Blue Light controller shall have a Building EIP with the object name “Gatton Roof Top Lighting EIP 1=WHT 2=BLU 3=PNK 4=ORNG 5= GRN 6= RED 7=PURPLE 8=OFF”. This EIP shall be a Multiple Command Object with 10 states (1-10). Each state turns ON the corresponding Lighting Output.

The states shall be:

State 1 = White
State 2 = Blue
State 3 = Pink
State 4 = Orange
State 5 = Green
State 6 = Red
State 7 = Purple
State 8 = OFF
State 9 = Spare
State 10 = Spare

(A command turns OFF Lighting Outputs 1-7, Turns ON Output 8 after a 5 sec delay, and turns OFF Output 8 after 10 sec delay.)

2.0 Sequence of Operation

1. Absolutely NO local scheduling in the lighting controller. ALL SCHEDULING SHALL BE DONE ON THE JCI Extended Architecture LEVEL.

2. All lights will be on a lighting schedule provided by UK Delta Room.

3. Each building NAE which has a Blue Light EIP shall be commanded to State 1 (WHITE) at dusk and State 8 (OFF) at dawn based on the Campus Exterior Lighting EIP and the campus photocell.

3. When the lights are scheduled on, the controller will send a signal to activate one of the seven lighting states, #1 through #7 (State 1 - State 7) to stay on until scheduled off.

4. When the lights are schedule off, the controller will send a signal to activate State 8 (OFF), in order to turn lights off.
TYPICAL RGB COLOR CHANGING LIGHTING