

ILLINOIS DEPARTMENT OF TRANSPORTATION  
LUMINAIRE PERFORMANCE TABLE

1/1/03

GIVEN CONDITIONS

|                         |   |                    |
|-------------------------|---|--------------------|
| <b>ROADWAY DATA:</b>    | Pavement Width                                | <u>48 FT</u>       |
|                         | Number Of Lanes                               | <u>4</u>           |
|                         | Median Width                                  | <u>0 FT</u>        |
|                         | IES Surface Classification                    | <u>R3</u>          |
|                         | Q-Zero Value                                  | <u>.07</u>         |
| <b>LIGHT POLE DATA:</b> | Mounting Height                               | <u>40 FT</u>       |
|                         | Mast Arm Length                               | <u>15 FT</u>       |
|                         | Pole Set-Back From Edge Of Pavement           | <u>15 FT</u>       |
| <b>LUMINAIRE DATA:</b>  | Lamp Type                                     | <u>HPS</u>         |
|                         | Lamp Lumens                                   | <u>28000</u>       |
|                         | IES Vertical Distribution                     | <u>M</u>           |
|                         | IES Control Of Distribution                   | <u>FC</u>          |
|                         | IES Lateral Distribution                      | <u>3</u>           |
|                         | Total Light Loss Factor                       | <u>0.684</u>       |
| <b>LAYOUT DATA:</b>     | Spacing                                       | <u>150 FT</u>      |
|                         | Configuration                                 | <u>Single Side</u> |
|                         | Luminaire Overhang Over Edge Of Pavement Lane | <u>0 FT</u>        |

NOTE: Variations from the above specified IES distribution pattern may be requested and acceptance of variations will be subject to review by the Engineer based on how well the performance requirements are met.

PERFORMANCE REQUIREMENTS

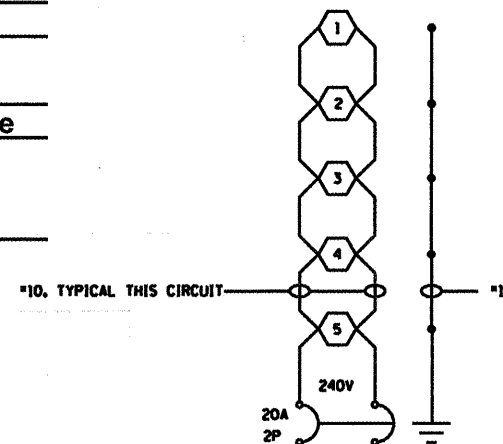
NOTE: These performance requirements shall be the minimum acceptable standards of photometric performance for the luminaire, based on the given conditions listed above.

|                      |  |                             |
|----------------------|--|-----------------------------|
| <b>ILLUMINATION:</b> | Average Horizontal Illumination, ( $E_{Ave}$ )     | <u>9.0 Lux</u>              |
|                      | Uniformity Ratio, ( $E_{Ave}/E_{Min}$ )            | <u>3.0</u>                  |
| <b>LUMINANCE:</b>    | Average Luminance: ( $L_{Ave}$ )                   | <u>0.6 Cd/m<sup>2</sup></u> |
|                      | Uniformity Ratios: ( $L_{Ave}/L_{Min}$ )           | <u>3.5</u>                  |
|                      | ( $L_{Max}/L_{Min}$ )                              | <u>6.0</u>                  |
|                      | Maximum Veiling Luminance Ratio: ( $L_v/L_{Ave}$ ) | <u>0.3</u>                  |

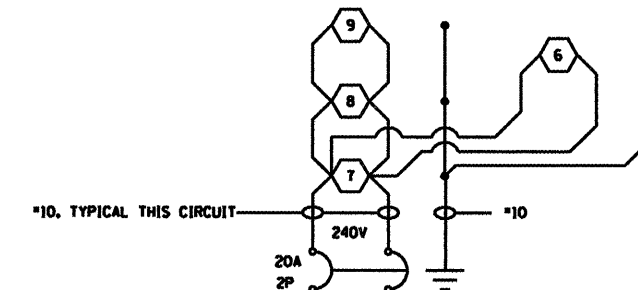
NOTES:

- ALL NECESSARY REVISIONS TO THE WIRING SHOWN ON THIS SHEET SHALL BE MADE AT NO ADDITIONAL COST TO THE DEPARTMENT AND TO THE SATISFACTION OF THE ENGINEER.

⬡ 250W ROADWAY LUMINAIRE



LIGHTING CKT 1  
PROPOSED LIGHTING CONTROLLER NO. 1



LIGHTING CKT 2  
PROPOSED LIGHTING CONTROLLER NO. 1