

ILLINOIS DEPARTMENT OF TRANSPORTATION
LUMINAIRE PERFORMANCE TABLE - PROPOSED LIGHTING

6/21/11

GIVEN CONDITIONS

| | | |
|-------------------------|---|----------|
| ROADWAY DATA: | Pavement Width | 48 FT |
| | Number Of Lanes | 4 |
| | Median Width | 16 FT |
| | IES Surface Classification | R3 |
| | Q-Zero Value | .07 |
| LIGHT POLE DATA: | Mounting Height | 50 FT |
| | Mast Arm Length | 15 FT |
| | Pole Set-Back From Edge Of Pavement | 20 FT |
| LUMINAIRE DATA: | Lamp Type | HPS |
| | Lamp Lumens | 50000 |
| | IES Vertical Distribution | M |
| | IES Control Of Distribution | FC |
| | IES Lateral Distribution | 3 |
| | Total Light Loss Factor | 0.684 |
| LAYOUT DATA: | Spacing | 260 FT |
| | Configuration | Opposite |
| | Luminaire Overhang Over Edge Of Pavement Lane | -5 FT |

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.

| | | |
|----------------------|--|------------------------|
| ILLUMINATION: | Average Horizontal Illumination, (E_{Ave}) | 0.90 fc |
| | Uniformity Ratio, (E_{Ave}/E_{Min}) | 3.0 |
| LUMINANCE: | Average Luminance: (L_{Ave}) | 0.60 Cd/m ² |
| | Uniformity Ratios: (L_{Ave}/L_{Min}) | 3.5 |
| | (L_{Max}/L_{Min}) | 6.0 |
| | Maximum Veiling Luminance Ratio: (L_v/L_{Ave}) | 0.3 |

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ILLINOIS DEPARTMENT OF TRANSPORTATION
LUMINAIRE PERFORMANCE TABLE - PROPOSED LIGHTING

6/21/11

GIVEN CONDITIONS

| | | |
|-------------------------|---|----------|
| ROADWAY DATA: | Pavement Width | 36 FT |
| | Number Of Lanes | 3 |
| | Median Width | 32 FT |
| | IES Surface Classification | R3 |
| | Q-Zero Value | .07 |
| LIGHT POLE DATA: | Mounting Height | 45 FT |
| | Mast Arm Length | 15 FT |
| | Pole Set-Back From Edge Of Pavement | 20 FT |
| LUMINAIRE DATA: | Lamp Type | HPS |
| | Lamp Lumens | 28000 |
| | IES Vertical Distribution | M |
| | IES Control Of Distribution | FC |
| | IES Lateral Distribution | 3 |
| | Total Light Loss Factor | 0.684 |
| LAYOUT DATA: | Spacing | 160 FT |
| | Configuration | Opposite |
| | Luminaire Overhang Over Edge Of Pavement Lane | -5 FT |

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.

| | | |
|----------------------|--|------------------------|
| ILLUMINATION: | Average Horizontal Illumination, (E_{Ave}) | 0.90 fc |
| | Uniformity Ratio, (E_{Ave}/E_{Min}) | 3.0 |
| LUMINANCE: | Average Luminance: (L_{Ave}) | 0.60 Cd/m ² |
| | Uniformity Ratios: (L_{Ave}/L_{Min}) | 3.5 |
| | (L_{Max}/L_{Min}) | 6.0 |
| | Maximum Veiling Luminance Ratio: (L_v/L_{Ave}) | 0.3 |

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ILLINOIS DEPARTMENT OF TRANSPORTATION
LUMINAIRE PERFORMANCE TABLE - 150W UNDERPASS

7/6/11

GIVEN CONDITIONS

| | | |
|-------------------------|---|-----------|
| ROADWAY DATA: | Pavement Width | 60 FT |
| | Number Of Lanes | 5 |
| | Median Width | N/A |
| | IES Surface Classification | R3 |
| | Q-Zero Value | .07 |
| LIGHT POLE DATA: | Mounting Height | 16.5 FT |
| | Mast Arm Length | |
| | Pole Set-Back From Edge Of Pavement | 2 FT |
| LUMINAIRE DATA: | Lamp Type | HPS |
| | Lamp Lumens | 16,000 |
| | IES Vertical Distribution | Med |
| | IES Control Of Distribution | |
| | IES Lateral Distribution | 4 |
| | Total Light Loss Factor | 0.6 |
| LAYOUT DATA: | Spacing | 60 FT |
| | Configuration | Staggered |
| | Luminaire Overhang Over Edge Of Pavement Lane | -2 FT |

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.

| | | |
|----------------------|--|-----------------------|
| ILLUMINATION: | Average Horizontal Illumination, (E_{Ave}) | 1.8 fc |
| | Uniformity Ratio, (E_{Ave}/E_{Min}) | 3.0 |
| LUMINANCE: | Average Luminance: (L_{Ave}) | 0.9 Cd/m ² |
| | Uniformity Ratios: (L_{Ave}/L_{Min}) | 3.5 |
| | (L_{Max}/L_{Min}) | 6.0 |
| | Maximum Veiling Luminance Ratio: (L_v/L_{Ave}) | 0.3 |

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