

ILLINOIS DEPARTMENT OF TRANSPORTATION
LUMINAIRE PERFORMANCE TABLE

GIVEN CONDITIONS

ROADWAY DATA:	Pavement Width	<u>36</u>	<u>FT</u>
	Number Of Lanes	<u>3</u>	
	Median Width	<u>0</u>	<u>FT</u>
	IES Surface Classification	<u>R3</u>	
	Q-Zero Value	<u>.07</u>	
LIGHT POLE DATA:	Mounting Height	<u>45</u>	<u>FT</u>
	Mast Arm Length	<u>15</u>	<u>FT</u>
	Pole Set-Back From Edge Of Pavement	<u>15</u>	<u>FT</u>
LUMINAIRE DATA:	Lamp Type	<u>HPS</u>	
	Lamp Lumens	<u>28,000</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>0.70</u>	
LAYOUT DATA:	Spacing	<u>160</u>	<u>FT</u>
	Configuration	<u>Single Side</u>	
	Luminaire Overhang Over Edge Of Pavement Lane	<u>0</u>	<u>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.

ILLUMINATION:	Average Horizontal Illumination, (E_{Ave})	<u>9.0</u>	<u>Lux</u>
	Uniformity Ratio, (E_{Ave}/E_{Min})	<u>3.0</u>	
LUMINANCE:	Average Luminance: (L_{Ave})	<u>0.60</u>	<u>Cd/m²</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>0.30</u>	

GENERAL NOTES

1. ALL LIGHTING UNITS SHALL BE LABELED ACCORDING TO THE STANDARD SPECIFICATIONS, WITH POLE NUMBERS ATTACHED WITH STAINLESS STEEL BANDING. LIGHTING UNIT NUMBERING SHALL BE AS SHOWN ON THE PLANS AND AS DIRECTED BY THE ENGINEER.
2. CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE ELECTRICAL WORK WITH OTHER TRADES.
3. THE PROPOSED LIGHT POLES SHALL BE INSTALLED AT THE OFFSETS INDICATED. LIGHT POLE FOUNDATIONS SHALL BE INSTALLED PLUMB AND FLUSH WITH THE PROPOSED GRADE AND SHALL MEET THE HEIGHT REQUIREMENTS OF ARTICLE 836.03 OF THE STANDARD SPECIFICATIONS.
4. CONTRACTOR SHALL INSTALL LIGHT POLES AT THE LOCATIONS INDICATED ON THE PLANS, MAINTAINING ADEQUATE CLEARANCE FROM OVERHEAD UTILITY LINES. CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY CLEARANCES PER THE NATIONAL ELECTRICAL SAFETY CODE AND/OR THE REQUIREMENTS OF THE UTILITY COMPANIES. THE LOCATION OF BURIED AND ABOVE GROUND UTILITIES SHOWN ARE APPROXIMATE AND ARE SHOWN FOR INFORMATION ONLY. REROUTING, DISCONNECTION, RELOCATION, PROTECTION ETC., OF ANY UTILITIES MUST BE COORDINATED BETWEEN THE CONTRACTOR, UTILITY COMPANY, AND OWNER. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.
5. THE CONTRACTOR IS RESPONSIBLE FOR UNCOVERING OR HAND DIGGING AROUND UTILITIES AS NECESSARY. THE COST OF THIS WORK IS TO BE INCLUDED WITH THE TRENCH AND BACKFILL FOR ELECTRICAL WORK PAY ITEM.
6. THE EXISTING LIGHT POLE LOCATED AT THE INTERSECTION OF IL 125 AND IL 123 SHALL OPERATE FROM DUSK TO DAWN DAILY FOR THE DURATION OF THIS PROJECT. REMOVE AT THE APPROPRIATE STAGE OF CONSTRUCTION AS DIRECTED BY THE ENGINEER. ALL NECESSARY RELOCATIONS AND ADJUSTMENTS TO THE EXISTING LIGHTING FACILITIES DUE TO STAGING OR CONSTRUCTION SHALL BE MADE AT NO ADDITIONAL COST.

GENERAL NOTES FOR
LIGHTING AND
LUMINAIRE PERFORMANCE
TABLE