

ILLINOIS DEPARTMENT OF TRANSPORTATION  
LUMINAIRE PERFORMANCE TABLE - PROPOSED LIGHTING

GIVEN CONDITIONS

ROADWAY DATA:	Pavement Width	36	FT
	Number Of Lanes	3	
	Median Width	40	FT
	IES Surface Classification	R3	
	Q-Zero Value	.07	
LIGHT POLE DATA:	Mounting Height	48	FT
	Mast Arm Length	8	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	270	FT
	Configuration	Median	
	Luminaire Overhang Over Edge Of Pavement Lane	-12	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 <sub>Ave</sub> )	0.90	fc
	Uniformity Ratio, (E <sub>Ave</sub> /E <sub>Min</sub> )	3.0	
LUMINANCE:	Average Luminance: (L <sub>Ave</sub> )	0.60	Cd/m <sup>2</sup>
	Uniformity Ratios: (L <sub>Ave</sub> /L <sub>Min</sub> )	3.5	
	(L <sub>Max</sub> /L <sub>Min</sub> )	6.0	
	Maximum Veiling Luminance Ratio: (L <sub>v</sub> /L <sub>Ave</sub> )	0.3	

ILLINOIS DEPARTMENT OF TRANSPORTATION  
LUMINAIRE PERFORMANCE TABLE - TEMPORARY LIGHTING

GIVEN CONDITIONS

ROADWAY DATA:	Pavement Width	24	FT
	Number Of Lanes	2	
	Median Width		FT
	IES Surface Classification	R3	
	Q-Zero Value	.07	
LIGHT POLE DATA:	Mounting Height	45	FT
	Mast Arm Length		FT
	Pole Set-Back From Edge Of Pavement	30	FT
LUMINAIRE DATA:	Lamp Type	HPS	
	Lamp Lumens	28000	
	IES Vertical Distribution	M	
	IES Control Of Distribution	NC	
	IES Lateral Distribution	3	
	Total Light Loss Factor	0.684	
LAYOUT DATA:	Spacing	240	FT
	Configuration	One Side	
	Luminaire Overhang Over Edge Of Pavement Lane	-30	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 <sub>Ave</sub> )	0.60	fc
	Uniformity Ratio, (E <sub>Ave</sub> /E <sub>Min</sub> )	3.0	
LUMINANCE:	Average Luminance: (L <sub>Ave</sub> )	0.40	Cd/m <sup>2</sup>
	Uniformity Ratios: (L <sub>Ave</sub> /L <sub>Min</sub> )	3.5	
	(L <sub>Max</sub> /L <sub>Min</sub> )	6.0	
	Maximum Veiling Luminance Ratio: (L <sub>v</sub> /L <sub>Ave</sub> )	0.4	