

## Luminaire Performance Table 400W

1/1/03

### ILLINOIS DEPARTMENT OF TRANSPORTATION LUMINAIRE PERFORMANCE TABLE

#### GIVEN CONDITIONS

<b>ROADWAY DATA:</b>	Pavement Width	36 FT
	Number Of Lanes	3
	Median Width	42 FT
	IES Surface Classification	R3
	Q-Zero Value	.07
<b>LIGHT POLE DATA:</b>	Mounting Height	50 FT
	Mast Arm Length	15 FT
	Pole Set-Back From Edge Of Pavement	15 FT
<b>LUMINAIRE DATA:</b>	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
<b>LAYOUT DATA:</b>	Spacing	230 FT
	Configuration	Staggered
	Luminaire Overhang Over Edge Of Pavement Lane	0 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.

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

## Luminaire Performance Table 250W

1/1/03

### ILLINOIS DEPARTMENT OF TRANSPORTATION LUMINAIRE PERFORMANCE TABLE

#### GIVEN CONDITIONS

<b>ROADWAY DATA:</b>	Pavement Width	36 FT
	Number Of Lanes	3
	Median Width	42 FT
	IES Surface Classification	R3
	Q-Zero Value	.07
<b>LIGHT POLE DATA:</b>	Mounting Height	45 FT
	Mast Arm Length	15 FT
	Pole Set-Back From Edge Of Pavement	15 FT
<b>LUMINAIRE DATA:</b>	Lamp Type	HPS
	Lamp Lumens	28500
	IES Vertical Distribution	M
	IES Control Of Distribution	FC
	IES Lateral Distribution	3
	Total Light Loss Factor	0.684
<b>LAYOUT DATA:</b>	Spacing	145 FT
	Configuration	Opposite
	Luminaire Overhang Over Edge Of Pavement Lane	0 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.

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

FILE NAME	USER NAME	DESIGNED	REVISED	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>LUMINAIRE PERFORMANCE TABLES</b>	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
011pvc_mch\evistat\mgaraj\02296781\06727	31-ehc-gennaleadn	DRAWN	REVISED			75	(6)L	SANGAMON	7	7A
Default	PLOT DATE: Feb-05-2013 02:15:49PM	CHECKED	REVISED		SCALE: _____ SHEET 7A OF 7 SHEETS STA. _____ TO STA. _____					CONTRACT NO. 72F31
		DATE	REVISED							ILLINOIS FED. AID PROJECT