| F.A.I. RTE. | SECTION | COUNTY | STIR. | SECTION | SEC

• (57-4)R, HBY, HBR, (57-4VB)DM CONTRACT #70757

ILLINOIS DEPARTMENT OF TRANSPORTATION LUMINAIRE PERFORMANCE TABLE - I-55 MAINLINE LIGHTING

GIVEN CONDITIONS

ROADWAY DATA:	Pavement Width	<u>11.0 m</u>
	Number Of Lanes	3
	Median Width	9.8 m
	IES Surface Classification	<u>R3</u>
	Q-Zero Value	<u>.07</u>
LIGHT POLE DATA:	Mounting Height	<u>13.1m</u>
	Mast Arm Length	2.4 m
	Pole Set-Back From Edge Of Pavement	<u>4.8 m</u>
LUMINAIRE DATA:	Lamp Type	HPS
	Lamp Lumens	28000
	IES Vertical Distribution	M
	IES Control Of Distribution	FC
	IES Lateral Distribution	Ш
	Total Light Loss Factor	0.684
LAYOUT DATA:	Spacing	61.0 m
	Configuration	MED
	Luminaire Overhang Over Edge	
	Of Pavement Lane	<u>-2.4 m</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	1, (E _{Ave})	9.0	Lux
	Uniformity Ratio, (EAve	/E _{Min})	3.0	
LUMINANCE:	Average Luminance: (L _{Ave})		0.60	Cd/m ²
	Uniformity Ratios:	(Lave/L _{Min})	3.5	
		(L _{Max} /L _{Min})	6.0	
	Maximum Veiling			
	Luminance Ratio:(L _v /L	Ave)	0.30	

LUMINAIRE PERFORMANCE TABLE - TUNNEL DAYTIME LIGHTING

GIVEN CONDITIONS

ILLINOIS DEPARTMENT OF TRANSPORTATION

	<u> CIVEN CONDITIONS</u>		
ROADWAY DATA:	Pavement Width	<u>7.3</u>	m
	Number Of Lanes	2	
	Median Width	-	<u>m</u>
	IES Surface Classification	<u>R3</u>	
	Q-Zero Value	<u>.07</u>	
LIGHT POLE DATA:	Mounting Height	<u>3.4</u>	<u>m</u>
	Mast Arm Length	-	m
	Pole Set-Back From Edge Of Pavement	1.5 & 7.3	<u>m</u>
LUMINAIRE DATA:	Lamp Type	HPS	
	Lamp Lumens	Lamp Lumens 51000	
	IES Vertical Distribution	М	
	IES Control Of Distribution	С	
	IES Lateral Distribution	IV	
	Total Light Loss Factor	0.585	
LAYOUT DATA:	Spacing	1.0 m	
	Configuration	OPP	
	Luminaire Overhang Over Edge		
	Of Pavement Lane	-1.5 8	k -7.3 m

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 Uniformity Ratio, (E	• •	-	Lux
LUMINANCE:	Average Luminance: (L _{Ave}) Uniformity Ratios: (L _{Ave} /L _{Min}) (L _{Max} /L _{Min})		100 2.0 3.5	Cd/m²
	Maximum Veiling Luminance Ratio:(L _v /L	Ave)	0.30	

LUMINAIRES PERFORMANCE TABLES

REVISI	ONS	
NAME	DATE	JOB NO. 94S2063
		DATE 10/6/2009



