ILLINOIS DEPARTMENT OF TRANSPORTATION LUMINAIRE PERFORMANCE TABLE

I-270 Pole Mounted Luminaires

GIVEN CONDITIONS

ROADWAY DATA:	Pavement Width Number of Lanes Median Width IES Surface Classification O-Zero Value	14-42 FT 2-3 6 FT R3 0.07
LIGHT POLE DATA:	Mounting Height Pole Set-Back from Edge of Pavement Aiming Angle Mast Arm	45 FT 11-30 FT N/A 12-15 FT
LUMINAIRE DATA:	Lamp Type Lamp Lumens IES Vertical Distribution IES Control Distribution IES Lateral Distribution Total Light Loss Factor	HPS 27500 M C 3 (III) 0.7
LAYOUT DATA:	Spacing Configuration Luminaire Overhang Over Edge of Pavement Lane	105 - 210 FT STG

NOTE: Variations from the above specified IES distribution pattern may be requested and accepted 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}) Uniformity Ratio, (E_{Ave}/E_{Min})	
LUMINANCE:	Average Luminance: Uniformity Ratios:	(L _{Ave}) (L _{Ave} /L _{Min}) (L _{Max} /L _{Min})	0.6 3.5 6.0
	Maximum Veiling Luminance Ratio:	(L _V /L _{Ave})	0.3

ILLINOIS DEPARTMENT OF TRANSPORTATION LUMINAIRE PERFORMANCE TABLE

I-270 Canal Bridge Luminaires

GIVEN CONDITIONS

ROADWAY DATA:	Pavement Width Number of Lanes Median Width IES Surface Classification O-Zero Value	36 FT 3 4 FT R3 0.07
LIGHT POLE DATA:	Mounting Height Pole Set-Back from Edge of Pavement Aiming Angle Mast Arm	48.5 FT MEDIAN O DEGREES 6 FT
LUMINAIRE DATA:	Lamp Type Lamp Lumens IES Vertical Distribution IES Control Distribution IES Lateral Distribution Total Light Loss Factor	HPS 27500 M C 3 (III) 0.7
LAYOUT DATA:	Spacing Configuration Luminaire Overhang Over Edge	195 FT DUAL CTR
	of Pavement Lane	2 FT

NOTE: Variations from the above specified IES distribution pattern may be requested and accepted 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}) Uniformity Ratio, (E _{Ave} /E _{Min})		0.9 FC 3.0
LUMINANCE:	Average Luminance: Uniformity Ratios:	(L _{Ave}) (L _{Ave} /L Min) (L _{Max} /L Min)	0.6 3.5 6.0
	Maximum Veiling Luminance Ratio:	(L _V /L _{Ave})	0.3

ILLINOIS DEPARTMENT OF TRANSPORTATION LUMINAIRE PERFORMANCE TABLE

I-270 Canal Navigation Luminaires

GIVEN CONDITIONS

ROADWAY DATA:	Pavement Width Number of Lanes Median Width IES Surface Classification Q-Zero Value	N/A N/A N/A N/A N/A
LIGHT POLE DATA:	Mounting Height Pole Set-Back from Edge of Pavement Aiming Angle	BELOW PARAPET N/A N/A
LUMINAIRE DATA:	Lamp Type Lamp Lumens IES Vertical Distribution IES Control Distribution IES Lateral Distribution Total Light Loss Factor	LED USCG CRITERIA N/A FRESNAL LENS RED 180 DEG. GREEN 360 DEG. 0.7
LAYOUT DATA:	Spacing Configuration Luminaire Overhang Over Edge	CHANNEL LIMITS N/A
	of Pavement Lane	N/A

NOTE: Variations from the above specified IES distribution pattern may be requested and accepted 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 II Uniformity Ratio, (E _A ,	USCG CRITERIA N/A		
LUMINANCE:	Average Luminance: Uniformity Ratios:	(L _{Ave}) (L _{Ave} /L _{Min}) (L _{Max} /L _{Min})	N/A N/A N/A	
	Maximum Veiling Luminance Ratio:	(L _V /L _{Ave})	N/A	

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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LUMINAIRE PERFORMANCE TABLES		FAI	SECTION	COUNTY	TOTAL	SHEET NO.		
INTERSTATE 270			270	60-1B-1	MADISON	712	348	
					CONTRACT	T NO.	76A91	
	SHEET NO. 10 OF 10 SHEETS	STA.	TO STA.		ILLINOIS FED. AI	D PROJECT		