ILLINOIS DEPARTMENT OF TRANSPORTATION LUMINAIRE PERFORMANCE TABLE – PROPOSED LIGHTING

GIVEN CONDITIONS

ROADWAY DATA:	Pavement Width Number Of Lanes Median Width IES Surface Classification Q-Zero Value	48 FT 4 16 FT R3 .07
LIGHT POLE DATA:	Mounting Height Mast Arm Length Pole Set-Back From Edge Of Pavement	50 FT 15 FT 20 FT
LUMINAIRE DATA:	Lamp Type Lamp Lumens IES Vertical Distribution IES Control Of Distribution IES Lateral Distribution Total Light Loss Factor	HPS 50000 M FC 3
LAYOUT DATA:	Spacing Configuration Luminaire Overhang Over Edge Of Pavement Lane	260 FT Opposite -5 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 _{Ave}) Uniformity Ratio, (E _{Ave} /E _{Min})		0.90 fc 3.0
LUMINANCE:	Average Luminanc Uniformity Ratios:	e: (L _{Ave}) (L _{Ave} /L _{Min}) (L _{Max} /L _{Min})	0.60 Cd/m² 3.5 6.0
	Maximum Veiling Luminance Ratio:	(Lu/Laua)	0.3

MS:cs:s:\gen\wpdocs\cks\luminaireperformancetable

6/21/11

ILLINOIS DEPARTMENT OF TRANSPORTATION LUMINAIRE PERFORMANCE TABLE - PROPOSED LIGHTING

GIVEN CONDITIONS

ROADWAY DATA:	Pavement Width	36 FT
	Number Of Lanes	3
	Median Width	32 FT
	IES Surface Classification	R3
	Q-Zero Value	.07
	Q-Zero value	.07
LIGHT POLE DATA:	Mounting Height	45 FT
	Mast Arm Length	15 FT
	Pole Set-Back From Edge Of Pavement	20 FT
LUMINAIRE DATA:	Lamp Type	HPS
	Lamp Lumens	28000
	IES Vertical Distribution	M
	IES Control Of Distribution	FC
	IES Lateral Distribution	3
	Total Light Loss Factor	0.684
	Total Light Loss Factor	V.004
LAYOUT DATA:	Spacing	160 FT
	Configuration	Opposite
	Luminaire Overhang Over Edge	
	Of Pavement Lane	-5 FT
	Oi Faveille III Lalle	•0 Fi

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 Uniformity Ratio, (E _{Ave} /E _{Min})	Ave) 0.90 fc 3.0
LUMINANCE:	Average Luminance: (L_{Ave}) Uniformity Ratios: (L_{Ave}/L_{Min}) (L_{Max}/L_{Min})	0.60 Cd/m ² 3.5 6.0
	Maximum Velling Luminance Ratio: (L _v /L _{Ave})	0.3

MS:cs:s:\gen\wpdocs\cks\luminaireperformancetable

ILLINOIS DEPARTMENT OF TRANSPORTATION LUMINAIRE PERFORMANCE TABLE – 150W UNDERPASS

7/6/11

I 41

GIVEN CONDITIONS

ROADWAY DATA:	Pavement Width	60 FT
	Number Of Lanes	5
	Median Width	N/A
	IES Surface Classification	R3
	Q-Zero Value	.07
LIGHT POLE DATA:	Mounting Height	16.5 FT
	Mast Arm Length	
	Pole Set-Back From Edge Of Pavement	2 FT
LUMINAIRE DATA:	Lamp Type	HPS
	Lamp Lumens	16.000
	IES Vertical Distribution	Med
	IES Control Of Distribution	
	IES Lateral Distribution	4
	Total Light Loss Factor	0.6
LAYOUT DATA:	C maning	eo et
LATOUT DATA:	Spacing	60 FT
	Configuration	Staggered
	Luminaire Overhang Over Edge	
	Of Pavement Lane	<u>-2 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})		1.8	fc
	Uniformity Ratio, (E _{Ave} /E _{Min})	3.0	
LUMINANCE:	Average Luminanc	e: (Lava)	0.9	Cd/n
	Uniformity Ratios:	(L _{Ave} /L _{Min})	3.5	
	•	(L _{Max} /L _{Min})	6.0	
	Maximum Veiling			
	Luminance Ratio:	(L _v /L _{Ave})	0.3	

MS:cs:s:\gen\wpdocs\cks\luminaireperformancetable

FILE NAME =	USER NAME = Rob Heady	DESIGNED	- I	OOT CENTRAL OFFICE	REVISED	-
\D978182-sht-T_light_dtl-L42.dgn		DRAWN		GLD (CMT)	REVISED	
	PLOT SCALE = 30.0000 '/ IN.	CHECKED	-		REVISED	=
	PLOT DATE = 10/7/2011	DATE	~	10/7/2011	REVISED	=

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

					I	T #
LUMINAIRE PERFORMANCE TABLES INTERSTATE 57		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEE NO.
		*	(X1-6-2)HBK-2, HB-1,2; (1X-1)R-1	WILLIAMSON	968	584
		* F.	A.I. 57 AND F.A.P. 331	CONTRAC	Γ NO.	78182
	SCALE: N.T.S. SHEET NO. L41 OF L42 SHEETS STA. TO STA.		ILLINOIS FED. AID PROJECT			