

DATE	ISSUE NO.	PROJECT	TOTAL SHEETS	SHEET NO.
*		Williamson	917	793A.
FED. ROAD DIST. NO. 7		ILLINOIS PROJECT		

*I-57 & OLD IL 13

ILLINOIS DEPARTMENT OF TRANSPORTATION
LUMINAIRE PERFORMANCE TABLE

GIVEN CONDITIONS		
ROADWAY DATA:	Pavement Width	24 FT
	Number Of Lanes	2
	Median Width	18 FT
	IES Surface Classification	R3
	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	28,000
	IES Vertical Distribution	M
	IES Control Of Distribution	FC
	IES Lateral Distribution	III
	Total Light Loss Factor	0.684
LAYOUT DATA:	Spacing	175 FT
	Configuration	OPP.
	Luminaire Overhang Over Edge Of Pavement Lane	-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})	9 Lux
	Uniformity Ratio, (E _{AVE} /E _{MIN})	3
LUMINANCE:	Average Luminance: (L _{AVE})	0.6 Cd/m ²
	Uniformity Ratios: (L _{AVE} /L _{MIN})	3.5
	(L _{MAX} /L _{MIN})	6.0
	Maximum Veiling Luminance Ratio: (L _v /L _{AVE})	0.3

ILLINOIS DEPARTMENT OF TRANSPORTATION
UNDERPASS LUMINAIRE PERFORMANCE TABLE

GIVEN CONDITIONS		
ROADWAY DATA:	Pavement Width	24 FT
	Number Of Lanes	2
	Median Width	18 FT
	IES Surface Classification	R3
	Q-Zero Value	.07
MOUNTING DATA:	Mounting Height	16 FT
	Set-Back From Edge Of Pavement	7.5 FT
	Mounting Type	Pier
LUMINAIRE DATA:	Lamp Type	HPS
	Lamp Lumens	15,000
	IES Vertical Distribution	S
	IES Control Of Distribution	NC
	IES Lateral Distribution	IV
	Maximum Candela Angle	75 DEG
	Total Light Loss Factor	0.684
LAYOUT DATA:	Spacing	50 FT
	Configuration	1 side only

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})	9 Lux
	Uniformity Ratio, (E _{AVE} /E _{MIN})	3
LUMINANCE:	Average Luminance: (L _{AVE})	0.6 Cd/m ²
	Uniformity Ratios: (L _{AVE} /L _{MIN})	3.5
	(L _{MAX} /L _{MIN})	6.0
	Maximum Veiling Luminance Ratio: (L _v /L _{AVE})	0.3

ILLINOIS DEPARTMENT OF TRANSPORTATION
LUMINAIRE PERFORMANCE TABLE

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	50 FT
	Mast Arm Length	15 FT
	Pole Set-Back From Edge Of Pavement	20 FT
LUMINAIRE DATA:	Lamp Type	HPS
	Lamp Lumens	28,000
	IES Vertical Distribution	M
	IES Control Of Distribution	FC
	IES Lateral Distribution	III
	Total Light Loss Factor	0.684
LAYOUT DATA:	Spacing	285 FT
	Configuration	OPP.
	Luminaire Overhang Over Edge Of Pavement Lane	-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})	9 Lux
	Uniformity Ratio, (E _{AVE} /E _{MIN})	3
LUMINANCE:	Average Luminance: (L _{AVE})	0.6 Cd/m ²
	Uniformity Ratios: (L _{AVE} /L _{MIN})	3.5
	(L _{MAX} /L _{MIN})	6.0
	Maximum Veiling Luminance Ratio: (L _v /L _{AVE})	0.3

LIGHTING DETAILS
PERFORMANCE TABLES

I-57 & OLD IL 13
WILLIAMSON COUNTY