

ILLINOIS DEPARTMENT OF TRANSPORTATION
LUMINAIRE PERFORMANCE TABLE - UNDERPASS

GIVEN CONDITIONS

ROADWAY DATA:	Pavement Width	36 FT
	Number Of Lanes	3
	Median Width	N/A
	IES Surface Classification	R3
	Q-Zero Value	.07
LIGHT POLE DATA:	Mounting Height	16 FT
	Mast Arm Length	
	Pole Set-Back From Edge Of Pavement	16 FT
LUMINAIRE DATA:	Lamp Type	HPS
	Lamp Lumens	16,000
	IES Vertical Distribution	Very Short
	IES Control Of Distribution	Non-Cutoff
	IES Lateral Distribution	4
	Total Light Loss Factor	0.684
LAYOUT DATA:	Spacing	50 FT
	Configuration	Single Side
	Luminaire Overhang Over Edge Of Pavement Lane	-16 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})	0.9 fc
	Uniformity Ratio, (E _{Ave} /E _{Min})	3.0
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 - PROPOSED LIGHTING

GIVEN CONDITIONS

ROADWAY DATA:	Pavement Width	16 FT
	Number Of Lanes	1
	Median Width	FT
	IES Surface Classification	R3
	Q-Zero Value	.07
LIGHT POLE DATA:	Mounting Height	45 FT
	Mast Arm Length	N/A FT
	Pole Set-Back From Edge Of Pavement	30 FT
LUMINAIRE DATA:	Lamp Type	HPS
	Lamp Lumens	28000
	IES Vertical Distribution	M
	IES Control Of Distribution	NC
	IES Lateral Distribution	3
	Total Light Loss Factor	0.684
LAYOUT DATA:	Spacing	170 FT
	Configuration	Single Side
	Luminaire Overhang Over Edge Of Pavement Lane	-30 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})	0.9 fc
	Uniformity Ratio, (E _{Ave} /E _{Min})	3.0
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 - PROPOSED BRIDGE LIGHTING

GIVEN CONDITIONS

ROADWAY DATA:	Pavement Width	14 FT
	Number Of Lanes	1
	Median Width	- FT
	IES Surface Classification	R3
	Q-Zero Value	.07
LIGHT POLE DATA:	Mounting Height	12 FT
	Mast Arm Length	- FT
	Pole Set-Back From Edge Of Pavement	0.5 FT
LUMINAIRE DATA:	Lamp Type	HPS
	Lamp Lumens	4000
	IES Vertical Distribution	M
	IES Control Of Distribution	C
	IES Lateral Distribution	4
	Total Light Loss Factor	0.684
LAYOUT DATA:	Spacing	52 FT
	Configuration	Opposite
	Luminaire Overhang Over Edge Of Pavement Lane	-0.5 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})	0.5 fc
	Uniformity Ratio, (E _{Ave} /E _{Min})	10
LUMINANCE:	Average Luminance: (L _{Ave})	- Cd/m ²
	Uniformity Ratios: (L _{Ave} /L _{Min})	-
	(L _{Max} /L _{Min})	-
	Maximum Veiling Luminance Ratio: (L _v /L _{Ave})	-