

ILLINOIS DEPARTMENT OF TRANSPORTATION  
LUMINAIRE PERFORMANCE TABLE - PROPOSED LIGHTING

10/16/12

GIVEN CONDITIONS

ROADWAY DATA:	Pavement Width	48 FT
	Number Of Lanes (In Direction of Travel)	4
	Median Width	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	50000
	IES Vertical Distribution	M
	IES Control Of Distribution	FC
	IES Lateral Distribution	3
	Total Light Loss Factor	0.684
LAYOUT DATA:	Spacing	195 FT
	Configuration	One Side
	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 <sub>Ave</sub> )	0.90 fc
	Uniformity Ratio, (E <sub>Ave</sub> /E <sub>Min</sub> )	3.0
LUMINANCE:	Average Luminance: (L <sub>Ave</sub> )	0.60 Cd/m <sup>2</sup>
	Uniformity Ratios: (L <sub>Ave</sub> /L <sub>Min</sub> )	3.5
	(L <sub>Max</sub> /L <sub>Min</sub> )	6.0
	Maximum Veiling Luminance Ratio: (L <sub>v</sub> /L <sub>Ave</sub> )	0.3

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ILLINOIS DEPARTMENT OF TRANSPORTATION  
LUMINAIRE PERFORMANCE TABLE - TEMPORARY LIGHTING

10/16/12

GIVEN CONDITIONS

ROADWAY DATA:	Pavement Width	24 FT
	Number Of Lanes (In Direction of Travel)	2
	Median Width	FT
	IES Surface Classification	R3
	Q-Zero Value	.07
LIGHT POLE DATA:	Mounting Height	45 FT
	Mast Arm Length	FT
	Pole Set-Back From Edge Of Pavement	30 FT
LUMINAIRE DATA:	Lamp Type	HPS
	Lamp Lumens	28000
	IES Vertical Distribution	L
	IES Control Of Distribution	NC
	IES Lateral Distribution	4
	Total Light Loss Factor	0.684
LAYOUT DATA:	Spacing	230 FT
	Configuration	One 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 <sub>Ave</sub> )	0.60 fc
	Uniformity Ratio, (E <sub>Ave</sub> /E <sub>Min</sub> )	3.0
LUMINANCE:	Average Luminance: (L <sub>Ave</sub> )	0.40 Cd/m <sup>2</sup>
	Uniformity Ratios: (L <sub>Ave</sub> /L <sub>Min</sub> )	3.5
	(L <sub>Max</sub> /L <sub>Min</sub> )	6.0
	Maximum Veiling Luminance Ratio: (L <sub>v</sub> /L <sub>Ave</sub> )	

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ILLINOIS DEPARTMENT OF TRANSPORTATION  
SIGN LUMINAIRE PERFORMANCE TABLE

10/25/12

GIVEN CONDITIONS

SIGN PANEL DATA:	Type (T=Truss C=Cantilever)	T
	Height	12 FT
	Width	36 FT
	Maintained Reflectance Contrast	
MOUNTING DATA:	Number of luminaires Per Sign	3
	Mounting Height (- below, + above)	
	Bottom Edge of Sign Panel	0 FT
	Distance to Edge of Sign Panel	6 FT
	Fixture Spacing (If More Than 1)	12 FT
	Luminaire Setback From Sign Face	4.25 FT
LUMINAIRE DATA:	Lamp Type (HPS - Typical)	HPS
	Lamp Lumens	16000
	IES Vertical Distribution	S
	IES Control Of Distribution	NC
	IES Lateral Distribution	4
	Total Light Loss Factor	0.7
LAYOUT DATA:	Ambient Light Level	Medium

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:	Maintained Average Sign Illumination . Uniformity Ratio, (Max / Min)	26 fc 6.0
LUMINANCE:	Maintained Average Sign Luminance Uniformity Ratio, (L <sub>Max</sub> /L <sub>Min</sub> )	40 Cd/m <sup>2</sup> 6.0
	Sign Gradient Luminance Difference Ratio, (Max)	2.0

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