I-57 MAIN LINE HIGHMAST LIGHTING IDOT LUMINAIRE PERFORMANCE TABLE I-57/IL-50 INTERCHANGE RECONSTRUCTION

PAVEMENT WIDTH	24 FT
NUMBER OF LANES	2
MEDIAN WIDTH	28 FT
IES SURFACE CLASSIFICATION	R3
Q ZERO VALUE	0.07
MOUNTING HEIGHT	100 FT
MAST ARM LENGTH	4 FT
POLE SET-BACK FROM EDGE OF PAVEMENT	77 FT
LAMP TYPE	(6) 400 HPS
LAMP LUMENS	51000
IES VERTICAL DISTRIBUTION	MEDIUM
IES CONTROL OF DISTRIBUTION	SEMI CUTOFF
IES LATERAL DISTRIBUTION	TYPE III
TOTAL LIGHT LOSS FACTOR	0.7
SPACING	700 FT
CONFIGURATION	STAGGERED
LUMINAIRE OVERHANG OVER EDGE OF PAVEMENT LANE	N/A
	NUMBER OF LANES MEDIAN WIDTH IES SURFACE CLASSIFICATION Q ZERO VALUE MOUNTING HEIGHT MAST ARM LENGTH POLE SET-BACK FROM EDGE OF PAVEMENT LAMP TYPE LAMP LUMENS IES VERTICAL DISTRIBUTION IES CONTROL OF DISTRIBUTION IES LATERAL DISTRIBUTION TOTAL LIGHT LOSS FACTOR SPACING CONFIGURATION LUMINAIRE OVERHANG OVER EDGE OF

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 REFEQUIREMENTS ARE MET.

PERFORMANCE REQUIREMENTS

NOTE: THESE PERFORMANCES REQUIREMENTS SHALL BE THE MINIMUM ACCEPTANCE STANDARDS OF PHOTOMETRIC PERFORMANCE FOR THE LUMINAIRE, BASED ON THE GIVEN CONDITIONS LISTED.

ILLUMINATION	AVERAGE HORIZONTAL ILLUMINATION - Eavg	0.6FC
	UNIFORMITY RATIO - E _{avg} /E _{min}	3.00
LUMINANCE	AVERAGE LUMINANCE - Lavg	0.4 Cd/m
	UNIFORMITY RATIOS - Lavg/Lmin	3.5
	UNIFORMITY RATIOS - L _{max} /L _{min}	6.0
	MAXIMUM VEILING LUMINANCE RATIO - L _{vmax} /L _{avg}	0.0

IL-50 LIGHTING IDOT LUMINAIRE PERFORMANCE TABLE I-57/IL-50 INTERCHANGE RECONSTRUCTION

ROADWAYDATA	PAVEMENT WIDTH	36 FT
	NUMBER OF LANES	3
	MEDIAN WIDTH	20 FT
	IES SURFACE CLASSIFICATION	R3
	Q ZERO VALUE	0.07
LIGHT POLE DATA	MOUNTING HEIGHT	50 FT
	MAST ARM LENGTH	15 FT
	POLE SET-BACK FROM EDGE OF PAVEMENT	8 FT
LUMINAIRE DATA	LAMP TYPE	HPS
	LAMP LUMENS	51000
	IES VERTICAL DISTRIBUTION	MEDIUM
	IES CONTROL OF DISTRIBUTION	FULL CUTOFF
	IES LATERAL DISTRIBUTION	TYPE III
	TOTAL LIGHT LOSS FACTOR	0.7
LAYOUT DATA	SPACING	245 FT
	CONFIGURATION	STAGGERED
	LUMINAIRE OVERHANG OVER EDGE OF PAVEMENT LANE	7 FT

NOTE: VARIATIONS FROM THE ABOVE SPECIFIED IES DISTRIBUTION PATTERN MAYBE REQUESTED AND ACCEPTANCE OF VARIATIONS WILL BE SUBJECT TO REVIEW BY THE ENGINEER BASED ON HOW WELL THE PERFORMANCE REGUIREMENTS ARE MET.

PERFORMANCE REQUIREMENTS

NOTE: THESE PERFORMANCES REQUIREMENTS SHALL BE THE MINIMUM ACCEPTANCE STANDARDS OF PHOTOMETRIC PERFORMANCE FOR THE LUMINAIRE, BASED ON THE GIVEN CONDITIONS LISTED.

ILLUMINATION	AVERAGE HORIZONTAL ILLUMINATION - Eavg	1.3FC
	UNIFORMITY RATIO - E _{avg} /E _{min}	3.0
LUMINANCE	AVERAGE LUMINANCE - Lavg	0.9 Cd/m ²
	UNIFORMITY RATIOS - Lavg/Lmin	3.0
	UNIFORMITY RATIOS - L _{max} /L _{min}	5.0
	MAXIMUM VEILING LUMINANCE RATIO - Lvmax/Lavg	0.3

UNDERPASS LIGHTING IDOT LUMINAIRE PERFORMANCE TABLE 1-57/IL-50 INTERCHANGE RECONSTRUCTION

ROADWAY DATA	PAVEMENT WIDTH	36FT
	NUMBER OF LANES	3
	MEDIAN WIDTH	N/A
	IES SURFACE CLASSIFICATION	R3
	Q ZERO VALUE	0.07
LIGHT POLE DATA	MOUNTING HEIGHT	17.5 FT
	MAST ARM LENGTH	N/A
	POLE SET-BACK FROM EDGE OF PAVEMENT	4 FT
LUMINAIRE DATA	LAMP TYPE	HPS
	LAMP LUMENS	16000
	IES VERTICAL DISTRIBUTION	N/A
	IES CONTROL OF DISTRIBUTION	NON-CUT OFF
	IES LATERAL DISTRIBUTION	TYPE N
	TOTAL LIGHT LOSS FACTOR	0.7
LAYOUT DATA	SPACING	65 FT
	CONFIGURATION	OPPOSITE
A STATE OF THE STA	LUMINAIRE OVERHANG OVER EDGE OF PAVEMENT LANE	N/A

NOTE: VARIATIONS FROM THE ABOVE SPECIFIED IES DISTRIBUTION PATTERN MAYBE REQUESTED AND ACCEPTANCE OF VARIATIONS WILL BE SUBJECT TO REVIEW BY THE ENGINEER BASED ON HOW WELL THE PERFORMANCE REGOUREMENTS ARE MET.

PERFORMANCE REQUIREMENTS

NOTE: THESE PERFORMANCES REQUIREMENTS SHALL BE THE MINIMUM ACCEPTANCE STANDARDS OF PHOTOMETRIC PERFORMANCE FOR THE LUMINAIRE, BASED ON THE GIVEN CONDITIONS LISTED.

ILLUMINATION	AVERAGE HORIZONTAL ILLUMINATION - Eavg	1.9FC
	UNIFORMITY RATIO - E _{avg} /E _{min}	3.0
LUMINANCE	AVERAGE LUMINANCE - Lavg	1.4 Cd/m ²
	UNIFORMITY RATIOS ~ Lavg/Lmin	3.0
	UNIFORMITY RATIOS - L _{max} /L _{min}	5.0
	MAXIMUM VEILING LUMINANCE RATIO - L _{vmax} /L _{avg}	0.3

I-57 RAMPS LIGHTING IDOT LUMINAIRE PERFORMANCE TABLE I-57/IL-50 INTERCHANGE RECONSTRUCTION TOWER NO. 27 WITH SHIELDED LUMINAIRES, NOTE 1

ROADWAY DATA	PAVEMENT WIDTH	16 FT
	NUMBER OF LANES	1
	MEDIAN WIDTH	N/A
	IES SURFACE CLASSIFICATION	R3
	Q ZERO VALUE	0.07
LIGHT POLE DATA	MOUNTING HEIGHT	100 FT
	MAST ARM LENGTH	4 FT
	POLE SET-BACK FROM EDGE OF PAVEMENT	65 FT
LUMINAIRE DATA	LAMP TYPE	(4) 400W HPS
	LAMP LUMENS	51000
	IES VERTICAL DISTRIBUTION	SHORT
	IES CONTROL OF DISTRIBUTION	CUT OFF
	IES LATERAL DISTRIBUTION	TYPE II
	TOTAL LIGHT LOSS FACTOR	0.7
LAYOUT DATA	SPACING	500F
	CONFIGURATION	ONE SIDE
	LUMINAIRE OVERHANG OVER EDGE OF PAVEMENT LANE	N/A

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 PERFORMANCES REQUIREMENTS SHALL BE THE MINIMUM ACCEPTANCE STANDARDS OF PHOTOMETRIC PERFORMANCE FOR THE LUMINAIRE, BASED ON THE GIVEN CONDITIONS LISTED.

Delta Engineering, Inc.

ILLUMINATION	AVERAGE HORIZONTAL ILLUMINATION - E avg	0.6FC
	UNIFORMITY RATIO - Eavy/Emin	3.00
LUMINANCE	AVERAGE LUMINANCE - Lavg	0.4 Cd/m
	UNIFORMITY RATIOS - Lavg/Lmin	3.5
	UNIFORMITY RATIOS - Lmax/Lmin	6.0
	MAXIMUM VEILING LUMINANCE RATIO - Lymax/Lavg	0.0

NOTE:

1. HIGH MAST LUMINAIRES ARE TO INSTALLED WITH THE HOUSE SIDE SHIELD TO LIMIT LIGHT TRESPASS. SEE CONTRACT SPECIAL PROVISIONS FOR SPECIFIC REQUIREMENTS FOR LUMINAIRE SHIELD.

I-57 RAMPS LIGHTING IDOT LUMINAIRE PERFORMANCE TABLE 1-57/IL-50 INTERCHANGE RECONSTRUCTION TOWER NO. 29 WITH SHIELDED LUMINAIRES, NOTE 1 NAY DATA PAVEMENT WIDTH NUMBER OF LANES MEDIAN WIDTH

ROADWAY DATA	PAVEMENT WIDTH	16 FT
	NUMBER OF LANES	1
	MEDIAN WIDTH	N/A
	IES SURFACE CLASSIFICATION	R3
	Q ZERO VALUE	0.07
LIGHT POLE DATA	MOUNTING HEIGHT	100 FT
	MAST ARM LENGTH	4 FT
	POLE SET-BACK FROM EDGE OF PAVEMENT	45 FT
LUMINAIRE DATA	LAMP TYPE	(4) 400W HPS
	LAMP LUMENS	51000
	IES VERTICAL DISTRIBUTION	MEDIUM
	IES CONTROL OF DISTRIBUTION	CUT OFF
	IES LATERAL DISTRIBUTION	TYPE II
	TOTAL LIGHT LOSS FACTOR	0.7
LAYOUT DATA	SPACING	250 FT
	CONFIGURATION	ONE SIDE
	LUMINAIRE OVERHANG OVER EDGE OF PAVEMENT LANE	N/A
		T

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 RFEQUIREMENTS ARE MET.

PERFORMANCE REQUIREMENTS

NOTE: THESE PERFORMANCES REQUIREMENTS SHALL BE THE MINIMUM ACCEPTANCE STANDARDS OF PHOTOMETRIC PERFORMANCE FOR THE LUMINAIRE, BASED ON THE GIVEN CONDITIONS LISTED.

ILLUMINATION	AVERAGE HORIZONTAL ILLUMINATION - Eavg	0.6FC
	UNIFORMITY RATIO - E _{avg} /E _{min}	3.00
LUMINANCE	AVERAGE LUMINANCE - Lavg	0.4 Cd/m ²
	UNIFORMITY RATIOS - Lavg/Lmin	3.5
	UNIFORMITY RATIOS - Lmax/Lmin	6.0
	MAXIMUM VEILING LUMINANCE RATIO - L _{VRPX} /L _{avg}	0.3

I-57 RAMPS LIGHTING IDOT LUMINAIRE PERFORMANCE TABLE I-57/IL-50 INTERCHANGE RECONSTRUCTION

	TOWER 31	
ROADWAY DATA	PAVEMENT WIDTH	16 FT
	NUMBER OF LANES	1
	MEDIAN WIDTH	N/A
	IES SURFACE CLASSIFICATION	R3
	Q ZERO VALUE	0.07
LIGHT POLE DATA	MOUNTING HEIGHT	100 FT
	MAST ARM LENGTH	4 FT
	POLE SET-BACK FROM EDGE OF PAVEMENT	65 FT
LUMINAIRE DATA	LAMP TYPE	(4) 400W HPS
	LAMP LUMENS	51000
	IES VERTICAL DISTRIBUTION	MEDIUM
	IES CONTROL OF DISTRIBUTION	CUT OFF
	IES LATERAL DISTRIBUTION	TYPE II
	TOTAL LIGHT LOSS FACTOR	0.7
LAYOUT DATA	SPACING	560 FT
	CONFIGURATION	ONE SIDE
	LUMINAIRE OVERHANG OVER EDGE OF PAVEMENT LANE	N/A

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 REFOLIREMENTS ARE MET

PERFORMANCE REQUIREMENTS

NOTE: THESE PERFORMANCES REQUIREMENTS SHALL BE THE MINIMUM ACCEPTANCE STANDARDS OF PHOTOMETRIC PERFORMANCE FOR THE LUMINAIRE, BASED ON THE GIVEN CONDITIONS LISTED.

ILLUMINATION	AVERAGE HORIZONTAL ILLUMINATION - Eavg	0.6FC
	UNIFORMITY RATIO - E _{avg} /E _{min}	3.00
LUMINANCE	AVERAGE LUMINANCE - Lavg	0.4 Cd/m ²
	UNIFORMITY RATIOS - Lavg/Lmin	3.5
,	UNIFORMITY RATIOS - L _{max} /L _{min}	6.0
***************************************	MAXIMUM VEILING LUMINANCE RATIO - Lymax/Lavg	0.3

FILE NAME =	USER NAME = kkhan	DESIGNED - HS	REVISED -
g:\zd40403\LI-19.dgn		DRAWN - KK	REVISED -
	PLOT SCALE = NONE	CHECKED - HS	REVISED -
	PLOT DATE = 12/17/2010	DATE - 12-17-2010	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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IDOT LUMINAIRE PERFORMANCE TABLE		F.A.I. RTE.	SECTION	COUNTY	TOTAL	SHEET NO.				
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	T							CONTRACT	NO. 6	66409
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