

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	06-00520-01-LT	WINNEBAGO	41	35
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

ROADWAY LIGHTING (20TH STREET TO ALPINE ROAD)

ILLINOIS DEPARTMENT OF TRANSPORTATION
LUMINAIRE PERFORMANCE TABLE

GIVEN CONDITIONS

ROADWAY DATA:	PAVEMENT WIDTHS	24 FT
	NUMBER OF LANES	2
	MEDIAN WIDTH	18 FT
	IES SURFACE CLASSIFICATION	R3
	Q-ZERO VALUE	0.07
LIGHT POLE DATA:	MOUNTING HEIGHT	40 FT
	MAST ARM LENGTH	10 FT
	POLE SET-BACK FROM EDGE OF PAVEMENT	5.5 FT
LUMINAIRE DATA:	LAMP TYPE	400W METAL HALIDE
	LAMP LUMENS	44,000
	IES VERTICAL DISTRIBUTION	MEDIUM
	IES CONTROL OF DISTRIBUTION	FULL CUTOFF
	IES LATERAL DISTRIBUTION	TYPE III
	TOTAL LIGHT LOSS FACTOR	0.50
LAYOUT DATA:	SPACING	200 FT
	CONFIGURATION	OPPOSITE WITH MEDIAN
	LUMINAIRE OVERHANG OVER EDGE OF PAVEMENT LINE	4.5 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, (EAVE)	1.3 fc
	UNIFORMITY RATIO, (EAVE/EMIN)	3.0
LUMINANCE:	AVERAGE LUMINANCE: (LAVE)	0.9 Cd/m2
	UNIFORMITY RATIOS: (LAVE/LMIN)	3.0
	(LMAX/LMIN)	5.0
	MAXIMUM VEILING LUMINANCE RATIO: (LV/LAVE)	0.3

ROADWAY LIGHTING (ALPINE ROAD TO MULFORD ROAD)

ILLINOIS DEPARTMENT OF TRANSPORTATION
LUMINAIRE PERFORMANCE TABLE

GIVEN CONDITIONS

ROADWAY DATA:	PAVEMENT WIDTHS	24 FT
	NUMBER OF LANES	2
	MEDIAN WIDTH	18 FT
	IES SURFACE CLASSIFICATION	R3
	Q-ZERO VALUE	0.07
LIGHT POLE DATA:	MOUNTING HEIGHT	40 FT
	MAST ARM LENGTH	10 FT
	POLE SET-BACK FROM EDGE OF PAVEMENT	5.5 FT
LUMINAIRE DATA:	LAMP TYPE	400W METAL HALIDE
	LAMP LUMENS	44,000
	IES VERTICAL DISTRIBUTION	MEDIUM
	IES CONTROL OF DISTRIBUTION	FULL CUTOFF
	IES LATERAL DISTRIBUTION	TYPE III
	TOTAL LIGHT LOSS FACTOR	0.50
LAYOUT DATA:	SPACING	175 FT
	CONFIGURATION	OPPOSITE WITH MEDIAN
	LUMINAIRE OVERHANG OVER EDGE OF PAVEMENT LINE	4.5 FT

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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, (EAVE)	1.3 fc
	UNIFORMITY RATIO, (EAVE/EMIN)	3.0
LUMINANCE:	AVERAGE LUMINANCE: (LAVE)	0.9 Cd/m2
	UNIFORMITY RATIOS: (LAVE/LMIN)	3.0
	(LMAX/LMIN)	5.0
	MAXIMUM VEILING LUMINANCE RATIO: (LV/LAVE)	0.3

BIKE PATH LIGHTING

ILLINOIS DEPARTMENT OF TRANSPORTATION
LUMINAIRE PERFORMANCE TABLE

GIVEN CONDITIONS

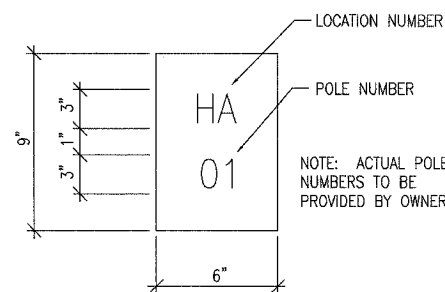
ROADWAY DATA:	PAVEMENT WIDTHS	10 FT
	NUMBER OF LANES	1
	MEDIAN WIDTH	0 FT
	IES SURFACE CLASSIFICATION	R3
	Q-ZERO VALUE	0.07
LIGHT POLE DATA:	MOUNTING HEIGHT	16 FT
	MAST ARM LENGTH	6 FT
	POLE SET-BACK FROM EDGE OF PAVEMENT	2.5 FT
LUMINAIRE DATA:	LAMP TYPE	150W METAL HALIDE
	LAMP LUMENS	14,000
	IES VERTICAL DISTRIBUTION	MEDIUM
	IES CONTROL OF DISTRIBUTION	FULL CUTOFF
	IES LATERAL DISTRIBUTION	TYPE II
	TOTAL LIGHT LOSS FACTOR	0.50
LAYOUT DATA:	SPACING	200 FT
	CONFIGURATION	SINGLE SIDED
	LUMINAIRE OVERHANG OVER EDGE OF PAVEMENT LINE	3.5 FT

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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, (EAVE)	0.5 fc
	UNIFORMITY RATIO, (EAVE/EMIN)	4.0
LUMINANCE:	AVERAGE LUMINANCE: (LAVE)	
	UNIFORMITY RATIOS: (LAVE/LMIN)	
	(LMAX/LMIN)	
	MAXIMUM VEILING LUMINANCE RATIO: (LV/LAVE)	



THE CONTRACTOR SHALL FURNISH AND INSTALL A LIGHT POLE IDENTIFICATION ON EACH NEW LIGHT POLE, AS SHOWN ABOVE, COST INCLUDED IN THE RESPECTIVE LIGHT POLE PAY ITEM. THE NUMERALS SHALL BE 3 IN. SERIES "D", BLACK, SCREENED ON SILVER-WHITE TYPE B PRESSURE SENSITIVE REFLECTIVE SHEETING CONFORMING TO THE REQUIREMENTS OF SECTION T602.01 OF THE STANDARD SPECIFICATIONS FOR TRAFFIC CONTROL ITEMS. THE NUMERALS SHALL CONFORM TO THE FHWA "STANDARD ALPHABETS FOR HIGHWAY SIGNS".

THE LIGHT POLE IDENTIFICATION SHALL BE APPLIED TO SIGN BASE MATERIAL AS SPECIFIED IN SECTION 1069.02 OF THE STANDARD SPECIFICATIONS, APPROXIMATELY 7 FT. ABOVE THE ADJACENT PAVEMENT GRADE VISIBLE TO APPROACHING TRAFFIC IN ACCORDANCE WITH HIGHWAY STANDARD 720001.

LIGHT POLE IDENTIFICATION DETAIL

SCALE: NONE