

**GUIDELINES FOR DETERMINING THE OPERATIONAL STATUS
OF EXISTING LIGHTING SYSTEMS ON FREEWAY FACILITIES**

DATA COLLECTION - SYSTEM ANALYSIS

GENERAL SITE INFORMATION

DATE:	ROADWAY:
COUNTY:	STUDY SITE LENGTH (miles):
DISTRICT:	NO. MAINLINE SECTIONS:
	NO. INTERCHANGES:

DATA COLLECTION PERSONNEL:

SYSTEM LIGHTING ANALYSIS

The calculation of a Base Lighting Operation Level and an Actual Lighting Operation Level for an entire study site involves the combining of values calculated for both interchanges and mainlines. A system Operational Ratio can then be found by dividing the "System Actual Lighting Operation Level" by the "System Base Lighting Operation Level." The following tables provide a step-by-step process to aid calculating the values.

SYSTEM BASE LIGHTING OPERATIONAL LEVEL CALCULATION:

CONFIGURATION	SUM OF INDIVIDUAL B.L.O.L.'S
INTERCHANGES	
MAINLINES	
TOTAL - SYSTEM B.L.O.L.	

SYSTEM ACTUAL LIGHTING OPERATIONAL LEVEL CALCULATION:

CONFIGURATION	SUM OF INDIVIDUAL A.L.O.L.'S
INTERCHANGES	
MAINLINES	
TOTAL - SYSTEM A.L.O.L.	

SYSTEM OPERATIONAL RATIO CALCULATION:

SYSTEM OPERATIONAL RATIO: $\frac{\text{SYSTEM A.L.O.L.}}{\text{SYSTEM B.L.O.L.}} = \frac{\quad}{\quad} =$

NOTE: An operational ratio value greater than or equal to .90 is considered acceptable.

< .90 THEREFORE

