

215. DATA SHEETS

WARNING DEVICE DATA

MANUFACTURER:

NAME: _____

ADDRESS: _____

DEVICE MODEL DESIGNATION: _____

MONTH AND YEAR OF MANUFACTURE:

BRAND NAME: _____

DISTRIBUTOR:

NAME: _____

ADDRESS: _____

REMARKS:

RECORDED BY: _____

DATE: _____

APPROVED BY: _____

15. DATA SHEETS....Continued

SUMMARY OF WARNING DEVICE COMPLIANCE TEST RESULTS

WARNING DEVICE NAME: _____

DEVICE NUMBER: _____ GROUP NO: _____

TEST	NON-CONDITIONED (Pass or Fail)	CONDITIONED (Pass or Fail)
Equipment Description	_____	N/A
Configuration Measurements	_____	N/A
Color		
Red Reflex Reflective	_____	_____
Orange Fluorescent	_____	_____
Dual Purpose	_____	_____
Reflectivity	_____	_____
Luminance	_____	_____
Stability	_____	N/A
Durability	_____	_____

REMARKS:

RECORDED BY: _____

DATE: _____

APPROVED BY: _____

15. DATA SHEETS....Continued

SUMMARY OF WARNING DEIVCE COMPLIANCE TEST RESULTS

WARNING DEVICE NAME: _____

DEVICE NUMBER: _____ GROUP NO: _____

**CONDITIONING FOR TESTING
(Ref. S125, §6.1)**

When required the test specimen shall be conditioned in the following sequence:

	EXPOSURE CONDITION	TIME	HUMIDITY
A	-40°F, +8°, -0°	16 hours, +0, -10 min.	30-70% at 70°F
B	70°F ± 10°	2 hours minimum	30-70% at 70°F
C	150°F, +0°, -10°	16 hours, +0, -10 min.	30-70% at 70°F
D	70°F ± 10°	2 hours minimum	30-70% at 70°F
E	100°F, +0°, -10°	16 hours, +0, -10 min.	90%, +0, -10 at 100°F
F	70°F ± 10°	2 hours minimum	30-70% at 70°F
G	Salt Spray	4 hours, +0, -10 min.	Ref. ASTM B-117
H	70°F ± 10°	2 hours minimum	30-70% at 70°F
I	Immersion in water at 100°F, +0°, -10°	2 hours ± 5 minutes	
J	70°F ± 10°	2 hours, +15, -0 min.	30-70% at 70°F

REMARKS:

RECORDED BY: _____

DATE: _____

APPROVED BY: _____

**DATA SHEET 1
EQUIPMENT**

WARNING DEVICE NAME: _____

DEVICE NUMBER: _____ GROUP NO: _____

TEST DATE: _____

EQUIPMENT	PASS	FAIL
MATERIAL AVAILABILITY		
Red Reflex Reflective	_____	_____
Orange Fluorescent	_____	_____
Dual Purpose	_____	_____
CONTAINER OR ENCLOSURE		
Opaque	_____	_____
Protective	_____	_____
MARKINGS		
Manufacturer	_____	_____
Date of Manufacture	_____	_____
DOT Symbol or Applicable FMVSS	_____	_____
INSTRUCTIONS		
Permanency	_____	_____
Erection and Display	_____	_____
Positioning Illustration	_____	_____
Warning Lamp Activation	_____	_____

RECORDED BY: _____

DATE: _____

APPROVED BY: _____

15. DATA SHEETS....Continued

**DATA SHEET 2
CONFIGURATION**

WARNING DEVICE NAME: _____

DEVICE NUMBER: _____ GROUP NO: _____

TEST DATE: _____

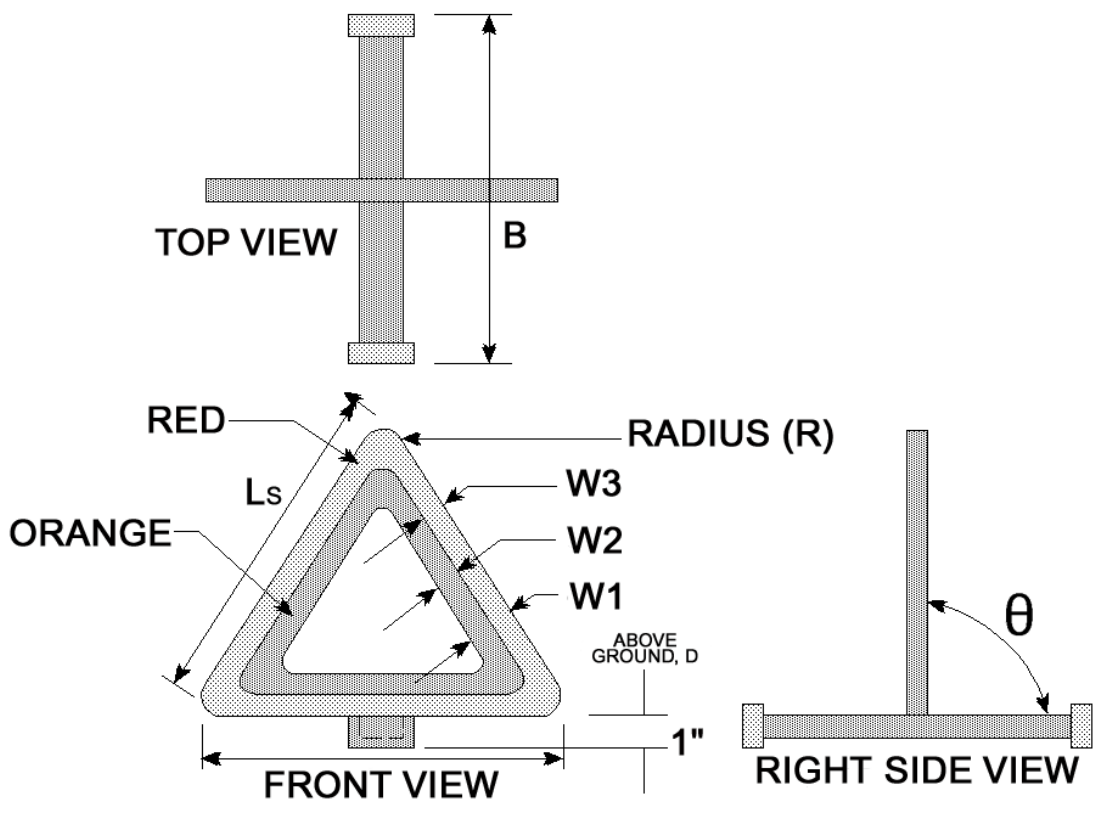
NOTE: All Dimensions are in inches.

REFER TO SKETCH ON NEXT PAGE - -

	ITEM	REQD MIN.	REQD MAX.	MEASURED	PASS	FAIL
2	Angle from Normal	0°	10°			
R	Radius	0.25"	0.50"			
W ₁	Total Width	2.00"	3.00"			
W ₂	Orange	1.25"	1.30"			
W ₃	Red	0.75"	1.75"			
W ₁	Dual Purpose	2.00"	3.00"			
L _b	Base Width of.	17.0"	22.0"			
L _s	Side Length of.	17.0"	22.0"			
B	Stabilizer Base Length					
D	Min. Above Ground	1.0"	N/A			

COMMENTS:

(Continued on next page)



REMARKS:

RECORDED BY: _____

DATE: _____

APPROVED BY: _____

**DATA SHEET 3
SHEET 1 OF 10
COLOR**

WARNING DEVICE NAME: _____

DEVICE NUMBER: _____ GROUP NO: _____

TEST DATE: _____

NOTE: A SPECIMEN SHALL BE TESTED BEFORE AND AFTER CONDITIONING.

RED REFLEX REFLECTIVE

Light Source: Tungsten filament, 2856°K color temperature, unmodified spectrum

Material: Separate or Dual Purpose

REQUIREMENTS

(REF: CIE Chromaticity Diagram)

Unconditioned and Conditioned

TEST RESULTS

Unconditioned

Conditioned

	x	_____	_____
y # 0.33	y	_____	_____
x + y \$ 0.98	x+y	_____	_____

RESULTS: _____ - PASS _____ - FAIL

REMARKS:

RECORDED BY: _____

DATE: _____

APPROVED BY: _____

15. DATA SHEETS....Continued

**DATA SHEET 3
SHEET 2 OF 10
COLOR**

WARNING DEVICE NAME: _____

DEVICE NUMBER: _____ GROUP NO: _____

TEST DATE: _____

ORANGE FLUORESCENT

Light Source: 150-watt high pressure Xenon compact arc lamp

Material:	Light Source Spectrum	
	Unmodified	Diffused by Sphere
Separate	_____	N/A
Dual Purpose	N/A	_____

REQUIREMENTS

(REF: CIE Chromaticity Diagram)

Unconditioned and Conditioned

TEST RESULTS

Unconditioned

Conditioned

Angle of Incidence: $45^\circ \pm 1^\circ$

Viewing Angle: 90° from the sample

x

x

y \leq 0.35

y

y \neq $0.49x + 0.17$

y

x + y \leq 0.93

x+y

RESULTS: _____ - PASS _____ - FAIL

REMARKS:

RECORDED BY: _____

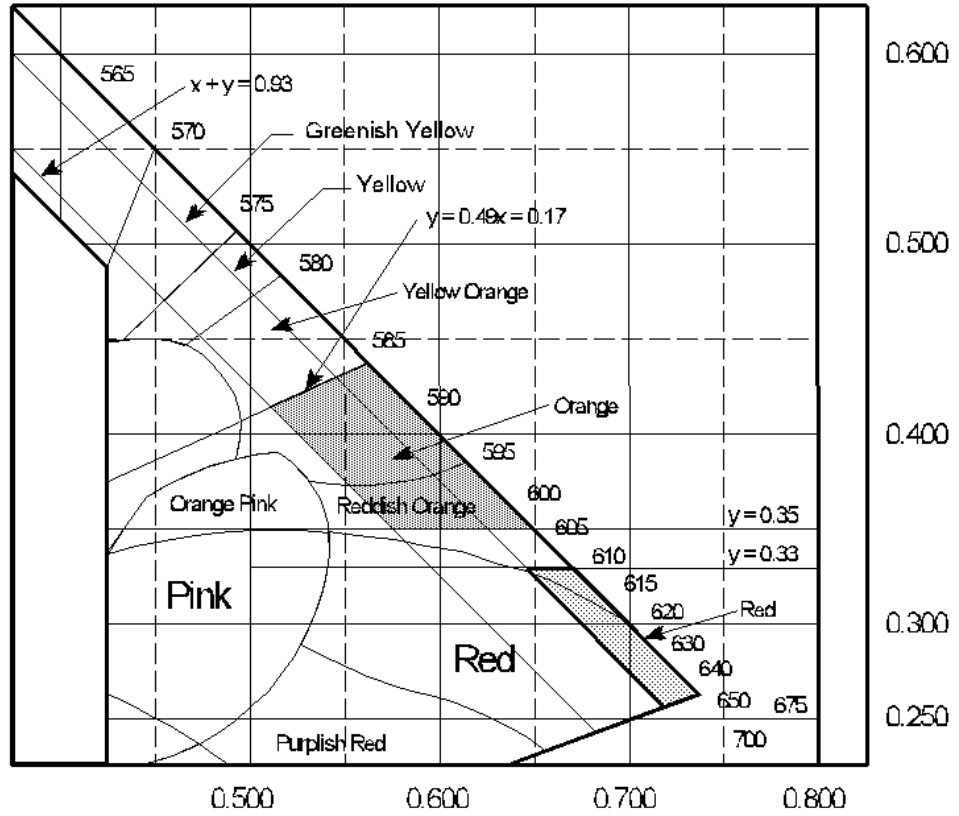
DATE: _____

APPROVED BY: _____

15. DATA SHEETS....Continued

DATA SHEET 3
SHEET 4 OF 10

ENLARGEMENT OF CIE CHROMATICITY DIAGRAM IN THE RED & ORANGE AREAS



15. DATA SHEETS....Continued

**DATA SHEET 3
SHEET 5 OF 10
COLOR TEST/DATA**

WARNING DEVICE NAME: _____

DEVICE #: _____ GROUP #: _____ TEST DATE: _____

DEFINITION OF TERMS USED IN COMPUTATION TABLES:

 λ Wavelength in nanometers (nm) E_a Spectral irradiance of source A (Tungsten lamp) E_c Spectral irradiance of source C (Xenon arc lamp)

x Spectral Values Standard

y Spectral Values Standard

z Spectral Values Standard

X Tristimulus Values Standard

Y Tristimulus Values Standard

Z Tristimulus Values Standard

 ρ Reflectance values acquired from chart printout

S Sum of X, Y and Z

COMPUTATION PROTOCOL

Determination of chromaticity coordinates (Color)

CIE Coordinates (2°)

SOURCE A: 2856°K Tungsten Lamp for Red

SOURCE C: 150-watt high pressure Xenon Compact Arc Lamp for Orange

REMARKS:

RECORDED BY: _____ DATE: _____

APPROVED BY: _____

15. DATA SHEETS....Continued

**DATA SHEET 3
SHEET 6 OF 10
UNCONDITIONED SAMPLE - RED COLOR TEST**

WARNING DEVICE NAME: _____

DEVICE #: _____ GROUP #: _____ TEST DATE: _____

1	2	3	4	5	6	7	8
λ (nm)	$E_{d\bar{x}}$	$E_{d\bar{y}}$	$E_{d\bar{z}}$	ρ	$\rho E_{d\bar{x}}$	$\rho E_{d\bar{y}}$	$\rho E_{d\bar{z}}$
380	1	--	6	0.	---	---	
90	5	--	23	.	---	---	
400	19	1	93	.	---	---	
10	71	2	340	.	---	---	
20	262	8	1,256	.	---	---	
30	649	27	3,167	.	---	---	
40	926	61	4,647	.	---	---	
450	1,031	117	5,435	.	---	---	
60	1,019	210	5,851	.	---	---	
70	776	362	5,116	.	---	---	
80	428	622	3,636	.	---	---	
90	160	1,039	2,324	.	---	---	
500	27	1,792	1,509	.	---	---	
10	57	3,080	969	.	---	---	
20	425	4,771	525	.	---	---	
30	1,214	6,322	309	.	---	---	
40	2,313	7,600	162	.	---	---	
550	3,732	8,568	75	.	---	---	
60	5,510	9,222	36	.	---	---	
70	7,571	9,457	21	.	---	---	
80	9,719	9,228	18	.	---	---	
90	11,579	8,540	12	.	---	---	
600	12,704	7,547	10	.	---	---	
10	12,669	6,356	4	.	---	---	
20	11,373	5,071	3	.	---	---	
30	8,980	3,704		.	---	---	
40	6,558	2,562		.	---	---	
650	4,336	1,637		.	---	---	
60	2,628	972		.	---	---	
70	1,448	530		.	---	---	
80	804	292		.	---	---	
90	404	146		.	---	---	
700	209	75		.	---	---	
10	110	40		.	---	---	
20	57	19		.	---	---	
30	28	10		.	---	---	
40	14	6		.	---	---	
750	6	2		.	---	---	
60	4	2		.	---	---	
70	2			.	---	---	
SUMS	109,828	100,000	35,547	---	X = ---	Y = ---	Z =

$S = X + Y + Z$ ($x = X/S, y = Y/S, z = Z/S$)

Columns 1-4 furnished; ρ from chart; calculate columns 6, 7 & 8

RECORDED BY: _____ DATE: _____

**DATA SHEET 3
SHEET 7 OF 10
CONDITIONED SAMPLE - RED COLOR TEST**

WARNING DEVICE NAME: _____

DEVICE #: _____ GROUP #: _____ TEST DATE: _____

1	2	3	4	5	6	7	8
$\lambda(nm)$	$E_{\sigma\bar{x}}$	$E_{\sigma\bar{y}}$	$E_{\sigma\bar{z}}$	ρ	$\rho E_{\sigma\bar{x}}$	$\rho E_{\sigma\bar{y}}$	$\rho E_{\sigma\bar{z}}$
380	1	--	6	0.	---	---	
90	5	--	23	.	---	---	
400	19	1	93	.	---	---	
10	71	2	340	.	---	---	
20	262	8	1,256	.	---	---	
30	649	27	3,167	.	---	---	
40	926	61	4,647	.	---	---	
450	1,031	117	5,435	.	---	---	
60	1,019	210	5,851	.	---	---	
70	776	362	5,116	.	---	---	
80	428	622	3,636	.	---	---	
90	160	1,039	2,324	.	---	---	
500	27	1,792	1,509	.	---	---	
10	57	3,080	969	.	---	---	
20	425	4,771	525	.	---	---	
30	1,214	6,322	309	.	---	---	
40	2,313	7,600	162	.	---	---	
550	3,732	8,568	75	.	---	---	
60	5,510	9,222	36	.	---	---	
70	7,571	9,457	21	.	---	---	
80	9,719	9,228	18	.	---	---	
90	11,579	8,540	12	.	---	---	
600	12,704	7,547	10	.	---	---	
10	12,669	6,356	4	.	---	---	
20	11,373	5,071	3	.	---	---	
30	8,980	3,704		.	---	---	
40	6,558	2,562		.	---	---	
650	4,336	1,637		.	---	---	
60	2,628	972		.	---	---	
70	1,448	530		.	---	---	
80	804	292		.	---	---	
90	404	146		.	---	---	
700	209	75		.	---	---	
10	110	40		.	---	---	
20	57	19		.	---	---	
30	28	10		.	---	---	
40	14	6		.	---	---	
750	6	2		.	---	---	
60	4	2		.	---	---	
70	2			.	---	---	
SUMS	109,828	100,000	35,547	_____	X = _____	Y = _____	Z = _____

S = X + Y + Z (x = X/S, y = Y/S, z = Z/S)
Columns 1-4 furnished; ρ from chart; calculate columns 6, 7 & 8

RECORDED BY: _____ DATE: _____

15. DATA SHEETS...Continued

DATA SHEET 3
SHEET 8 OF 10
UNCONDITIONED SAMPLE - ORANGE COLOR TEST

WARNING DEVICE NAME: _____

DEVICE #: _____ GROUP #: _____ TEST DATE: _____

1	2	3	4	5	6	7	8
$\lambda(\text{nm})$	$E_{a\bar{X}}$	$E_{a\bar{Y}}$	$E_{a\bar{Z}}$	ρ	$\rho E_{a\bar{X}}$	$\rho E_{a\bar{Y}}$	$\rho E_{a\bar{Z}}$
380	4	--	20	0.	---	---	
90	19	--	89	.	---	---	
400	85	2	404	.	---	---	
10	329	9	1,570	.	---	---	
20	1,238	37	5,949	.	---	---	
30	2,997	122	14,628	.	---	---	
40	3,975	262	19,938	.	---	---	
450	3,915	443	20,638	.	---	---	
60	3,362	694	19,299	.	---	---	
70	2,272	1,058	14,972	.	---	---	
80	1,112	1,618	9,461	.	---	---	
90	363	2,358	5,274	.	---	---	
500	52	3,401	2,864	.	---	---	
10	89	4,833	1,520	.	---	---	
20	576	6,462	712	.	---	---	
30	1,523	7,934	388	.	---	---	
40	2,785	9,149	195	.	---	---	
550	4,282	9,812	86	.	---	---	
60	5,880	9,841	89	.	---	---	
70	7,322	9,147	20	.	---	---	
80	8,417	7,992	16	.	---	---	
90	8,984	6,627	10	.	---	---	
600	8,949	5,316	7	.	---	---	
10	8,325	4,176	2	.	---	---	
20	7,070	3,153	2	.	---	---	
30	5,309	2,190		.	---	---	
40	3,693	1,443		.	---	---	
650	2,349	886		.	---	---	
60	1,361	504		.	---	---	
70	708	259		.	---	---	
80	369	134		.	---	---	
90	171	62		.	---	---	
700	82	29		.	---	---	
10	39	14		.	---	---	
20	19	6		.	---	---	
30	8	3		.	---	---	
40	4	2		.	---	---	
750	2	1		.	---	---	
60	1	1		.	---	---	
70	1			.	---	---	
SUMS	98,041	100,000	118,103	---	X = ---	Y = ---	Z = ---

S = X + Y + Z (x = X/S, y = Y/S, z = Z/S)
 Columns 1-4 furnished; ρ from chart; calculate columns 6, 7 & 8

RECORDED BY: _____ DATE: _____

DATA SHEET 3
SHEET 9 OF 10
CONDITIONED SAMPLE - ORANGE COLOR TEST

WARNING DEVICE NAME: _____

DEVICE #: _____ GROUP #: _____ TEST DATE: _____

1	2	3	4	5	6	7	8
λ (nm)	$E_{\alpha\bar{x}}$	$E_{\alpha\bar{y}}$	$E_{\alpha\bar{z}}$	ρ	$\rho E_{\alpha\bar{x}}$	$\rho E_{\alpha\bar{y}}$	$\rho E_{\alpha\bar{z}}$
380	4	--	20	0.	---	---	
90	19	--	89	.	---	---	
400	85	2	404	.	---	---	
10	329	9	1,570	.	---	---	
20	1,238	37	5,949	.	---	---	
30	2,997	122	14,628	.	---	---	
40	3,975	262	19,938	.	---	---	
450	3,915	443	20,638	.	---	---	
60	3,362	694	19,299	.	---	---	
70	2,272	1,058	14,972	.	---	---	
80	1,112	1,618	9,461	.	---	---	
90	363	2,358	5,274	.	---	---	
500	52	3,401	2,864	.	---	---	
10	89	4,833	1,520	.	---	---	
20	576	6,462	712	.	---	---	
30	1,523	7,934	388	.	---	---	
40	2,785	9,149	195	.	---	---	
550	4,282	9,812	86	.	---	---	
60	5,880	9,841	89	.	---	---	
70	7,322	9,147	20	.	---	---	
80	8,417	7,992	16	.	---	---	
90	8,984	6,627	10	.	---	---	
600	8,949	5,316	7	.	---	---	
10	8,325	4,176	2	.	---	---	
20	7,070	3,153	2	.	---	---	
30	5,309	2,190		.	---	---	
40	3,693	1,443		.	---	---	
650	2,349	886		.	---	---	
60	1,361	504		.	---	---	
70	708	259		.	---	---	
80	369	134		.	---	---	
90	171	62		.	---	---	
700	82	29		.	---	---	
10	39	14		.	---	---	
20	19	6		.	---	---	
30	8	3		.	---	---	
40	4	2		.	---	---	
750	2	1		.	---	---	
60	1	1		.	---	---	
70	1			.	---	---	
SUMS	98,041	100,000	118,103	_____	X = _____	Y = _____	Z = _____

S = X + Y + Z (x = X/S, y = Y/S, z = Z/S)
 Columns 1-4 furnished; ρ from chart; calculate columns 6, 7 & 8

RECORDED BY: _____ DATE: _____

15. DATA SHEETS....Continued

**DATA SHEET 3
SHEET 10 OF 10
CALCULATIONS**

WARNING DEVICE NAME: _____

DEVICE #: _____ GROUP #: _____ TEST DATE: _____

CALCULATIONS:

Column 6, Row 1, 2 ... N = (Column 2, Row 1, 2 ... N) x

(Column 5, Row 1, 2 ... N)

Column 7, Row 1, 2 ... N = (Column 3, Row 1, 2 ... N) x

(Column 5, Row 1, 2 ... N)

Column 8, Row 1, 2 ... N = (Column 4, Row 1, 2 ... N) x

(Column 5, Row 1, 2 ... N)

RESULTS - CONDITIONED SAMPLE:

A. RED PORTION CHROMATICITY COORDINATES - -

x = _____ ; y = _____ ; x + y = _____

B. ORANGE PORTION CHROMATICITY COORDINATES - -

x = _____ ; y = _____ ; x + y = _____

RESULTS - UNCONDITIONED SAMPLE:

A. RED PORTION CHROMATICITY COORDINATES - -

x = _____ ; y = _____ ; x + y = _____

B. ORANGE PORTION CHROMATICITY COORDINATES - -

x = _____ ; y = _____ ; x + y = _____

RECORDED BY: _____ DATE: _____

APPROVED BY: _____

15. DATA SHEETS....Continued

**DATA SHEET 4
REFLECTIVITY
(Ref.: FMVSS 125, Paragraph S5.4)**

WARNING DEVICE NAME: _____

DEVICE #: _____ GROUP #: _____ TEST DATE: _____

NOTE: Each sample shall be tested on the front and back side before and after conditioning.

TOTAL MINIMUM CANDLEPOWER PER INCIDENT FOOT CANDLE

Light Source: Tungsten filament, 2,856°K color temperature

Material: Red Reflex Reflective

UNCONDITIONED:

Observation Angle-Degrees	Entrance Angle-Degrees						
	0	10 up	10 down	20 left	20 right	30 left	30 right
0.2 min. values	80	80	80	40	40	8.0	8.0
0.2 test							
1.5 min. values	0.8	0.8	0.8	0.4	0.4	0.08	0.08
1.5 test							

CONDITIONED:

Observation Angle-Degrees	Entrance Angle-Degrees						
	0	10 up	10 down	20 left	20 right	30 left	30 right
0.2 min. values	80	80	80	40	40	8.0	8.0
0.2 test							
1.5 min. values	0.8	0.8	0.8	0.4	0.4	0.08	0.08
1.5 test							

RECORDED BY: _____

DATE: _____

APPROVED BY: _____

**DATA SHEET 5
SHEET 1 OF 5
LUMINANCE**

WARNING DEVICE NAME: _____

DEVICE #: _____ GROUP #: _____ TEST DATE: _____

Reference: FMVSS 125, Paragraph S5.5

One specimen of orange fluorescent material tested before and after conditioning.

Light source: 150-watt high pressure xenon compact arc lamp

Single Purpose Material:

A. Light Source: Plain _____ Diffused N/A _____
 B. Red Reflex Material: Masked _____ Unmasked _____

Dual Purpose Material:

Light Source: Plain N/A _____ Diffused _____

Angle of Incidence = 45° ± 1°

Angle of Observation = 90° ± 1° from the sample

Width of Orange Fluorescent Material = _____ inches

Requirement: $[Y_{\text{Specimen}}/Y_{\text{MgO}}] \times 100 \geq 25$ (Conditioned and unconditioned specimens)

$[Y_{\text{Specimen}}/Y_{\text{MgO}}] \times 100 \times \text{Width} \geq 32.5$

TEST RESULTS:

		UNCONDITIONED		CONDITIONED	
[Y _{Specimen} /Y _{MgO}] %		PASS		PASS	
		FAIL		FAIL	
% x Width		PASS		PASS	
		FAIL		FAIL	

RECORDED BY: _____

DATE: _____

APPROVED BY: _____

15. DATA SHEETS....Continued

**DATA SHEET 5
SHEET 2 OF 5
LUMINANCE TEST/DATA**

WARNING DEVICE NAME: _____

DEVICE #: _____ GROUP #: _____ TEST DATE: _____

Definitions of column headings in computation table:

 $\lambda(\text{nm})$ = Wavelength (nanometers)

 $E_c \bar{y}$ = Stimulus Color Value of the Spectrum Source (C)

 ρ = Reflectance from chart printout of spectrophotometer

 $\rho_{\text{MgO}} E_c \bar{y}$ = Values of ρ for Magnesium Oxide Test Sample Values times $E_c y_2$
 $\rho_{\text{sample}} E_c \bar{y}$ = Values of ρ for Test Sample times $E_c y_2$

RECORDED BY: _____

DATE: _____

APPROVED BY: _____

15. DATA SHEETS....Continued

**DATA SHEET 5
SHEET 3 OF 5
LUMINANCE CALCULATIONS FOR MAG OXIDE (MgO)**

WARNING DEVICE NAME: _____

DEVICE #: _____ GROUP #: _____ TEST DATE: _____

1 $\lambda(\text{nm})$	2 $E_c \bar{y}$	3 ρ_{MgO}	4 $\rho E_c \bar{y}$
380		0.	_____
90		.	_____
400	2	.	_____
10	9	.	_____
20	37	.	_____
30	122	.	_____
40	262	.	_____
450	443	.	_____
60	694	.	_____
70	1,058	.	_____
80	1,618	.	_____
90	2,358	.	_____
500	3,401	.	_____
10	4,833	.	_____
20	6,462	.	_____
30	7,934	.	_____
40	9,149	.	_____
550	9,832	.	_____
60	9,841	.	_____
70	9,147	.	_____
80	7,992	.	_____
90	6,627	.	_____
600	5,316	.	_____
10	4,176	.	_____
20	3,153	.	_____
30	2,190	.	_____
40	1,443	.	_____
650	886	.	_____
60	504	.	_____
70	259	.	_____
80	134	.	_____
90	62	.	_____
700	29	.	_____
10	14	.	_____
20	6	.	_____
30	3	.	_____
40	2	.	_____
750	1	.	_____
60	1	.	_____
70		.	_____
Sums	100,000		Y = _____

RECORDED BY: _____

DATE: _____

15. DATA SHEETS....Continued

**DATA SHEET 5
SHEET 4 OF 5
LUMINANCE CALCULATIONS FOR CONDITIONED SAMPLE**

WARNING DEVICE NAME: _____

DEVICE #: _____ GROUP #: _____ TEST DATE: _____

1	2	3	4
$\lambda(\text{nm})$	$E_c \bar{y}$	ρ_{MgO}	$\rho E_c \bar{y}$
380		0.	_____
90		.	_____
400	2	.	_____
10	9	.	_____
20	37	.	_____
30	122	.	_____
40	262	.	_____
450	443	.	_____
60	694	.	_____
70	1,058	.	_____
80	1,618	.	_____
90	2,358	.	_____
500	3,401	.	_____
10	4,833	.	_____
20	6,462	.	_____
30	7,934	.	_____
40	9,149	.	_____
550	9,832	.	_____
60	9,841	.	_____
70	9,147	.	_____
80	7,992	.	_____
90	6,627	.	_____
600	5,316	.	_____
10	4,176	.	_____
20	3,153	.	_____
30	2,190	.	_____
40	1,443	.	_____
650	886	.	_____
60	504	.	_____
70	259	.	_____
80	134	.	_____
90	62	.	_____
700	29	.	_____
10	14	.	_____
20	6	.	_____
30	3	.	_____
40	2	.	_____
750	1	.	_____
60	1	.	_____
70		.	_____
Sums	100,000		Y = _____

RECORDED BY: _____ DATE : _____

DATA SHEET 5
SHEET 5 OF 5
LUMINANCE CALCULATIONS FOR UNCONDITIONED SAMPLE

WARNING DEVICE NAME: _____

DEVICE #: _____ GROUP #: _____ TEST DATE: _____

1	2	3	4
$\lambda(\text{nm})$	$E_c\bar{y}$	ρ_{MgO}	$\rho E_c\bar{y}$
380		0.	---
90		.	---
400	2	.	---
10	9	.	---
20	37	.	---
30	122	.	---
40	262	.	---
450	443	.	---
60	694	.	---
70	1,058	.	---
80	1,618	.	---
90	2,358	.	---
500	3,401	.	---
10	4,833	.	---
20	6,462	.	---
30	7,934	.	---
40	9,149	.	---
550	9,832	.	---
60	9,841	.	---
70	9,147	.	---
80	7,992	.	---
90	6,627	.	---
600	5,316	.	---
10	4,176	.	---
20	3,153	.	---
30	2,190	.	---
40	1,443	.	---
650	886	.	---
60	504	.	---
70	259	.	---
80	134	.	---
90	62	.	---
700	29	.	---
10	14	.	---
20	6	.	---
30	3	.	---
40	2	.	---
750	1	.	---
60	1	.	---
70		.	---
Sums	100,000		Y =

RECORDED BY: _____ DATE: _____

**DATA SHEET 6
STABILITY**

WARNING DEVICE NAME: _____

DEVICE #: _____ GROUP # _____ TEST DATE: _____

REQUIREMENTS:

- Test Specimen --- Assembled and erected warning device
- Test Surface --- $\pm 1.0^\circ$ horizontal concrete with parallel brush marks
- Wind Velocity --- Required steady 40 mph + 0 mph, - 2 mph
- Time Duration per Position --- 3 minutes, + 0 minutes, - 0.2 minutes
- Maximum Allowable Rotation --- 10°
- Maximum Allowable Movement --- 3 inches
- Maximum Allowable Tilt --- 10° from vertical axis

WARNING DEVICE TRIANGLE PERPENDICULAR TO SURFACE BRUSH MARKS ON CONCRETE

Wind Direction (degrees) $\pm 1^\circ$	Wind Velocity (mph)	Wind Duration (min.)	Device Rotation (degrees)	Device Movement (inches)	Tilt Angle (degrees)	PASS	FAIL
0°							
45°							
90°							
135°							
180°							

WARNING DEVICE TRIANGLE PARALLEL TO BRUSH MARKS ON CONCRETE

Wind Direction (degrees) $\pm 1^\circ$	Wind Velocity (mph)	Wind Duration (min.)	Device Rotation (degrees)	Device Movement (inches)	Tilt Angle (degrees)	PASS	FAIL
0°							
45°							
90°							
135°							
180°							

RECORDED BY: _____ DATE: _____

**DATA SHEET 7
DURABILITY**

WARNING DEVICE NAME: _____

DEVICE #: _____ GROUP #: _____ TEST DATE: _____

WARNING DEVICE - -

Inspection	NOTE RESULTS		Pass/Fail
	Pre-Conditioned	Post Conditioned	
Warping/Distortion			
Delamination or Joint Separation			
Seizing of Joints			N/A
Discoloration			N/A
Rust or Corrosion on Metal Parts			N/A

REMARKS:

RECORDED BY: _____ DATE: _____

APPROVED BY: _____

LABORATORY NOTICE OF TEST FAILURE TO OVSC

FMVSS NO.: 125 TEST DATE: _____

LABORATORY: _____

CONTRACT NO.: _____; ELV. ORDER NO: _____

LABORATORY PROJECT ENGINEER'S NAME: _____

WARNING DEVICE MANUFACTURER: _____

MODEL NAME/NUMBER: _____

LABORATORY IDENTIFICATION NO: _____

TEST FAILURE DESCRIPTION: _____

S125 REQUIREMENT, PARAGRAPH _____ : _____

NOTIFICATION TO NHTSA (COTR): _____

DATE: _____ BY: _____

REMARKS: _____

16. FORMS...Continued

MONTHLY TEST STATUS REPORT

FMVSS 125

DATE OF REPORT: _____

No.	WARNING DEVICE MFR/BRAND NAME	TEST START DATE	TEST COMPLETE DATE	PASS	FAIL	DATE FINAL TEST REPORT SUBMITTED
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						

APPENDIX A

INTERPRETATIONS AND/OR DEVIATIONS FROM FMVSS 125

This test procedure is written in coordination with FMVSS 125 and is in no way intended to conflict with the requirements set forth in the standard and must be followed by the laboratory while conducting tests to FMVSS 125 for the Office of Vehicle Safety Compliance (OVSC), National Highway Traffic Safety Administration (NHTSA). If the testing laboratory interprets any part of this procedure to be in conflict with FMVSS 125, it will advise the Contracting Officer's Technical Representative (COTR) and resolve the discrepancy prior to testing to the standard.

Interpretations and/or deviations from this Test Procedure shall be shown in Appendix A of the Final Test Report.

APPENDIX B**EQUIPMENT LIST AND CALIBRATION SCHEDULES**

Each item of equipment used in the S125 compliance test program and subject to calibration must be entered in this Appendices as part of the Final Test Report. The following headings and format are suggested for the tabulation of calibrated equipment.

NOTE: The following information is to be included for each item of test equipment.

Equipment Description: _____

Equipment Manufacturer: _____

Type and/or Model: _____

Serial Number: _____

Limits: _____ ; Accuracy: _____

Frequency of Calibration: _____

Expiration Date of Calibration: _____

Equipment Used on Test Number: _____

The standard or calibration service (traceable to the National Institute of Standards and Technology -- NIST) used to calibrate each item of equipment must also be referenced. In the event of a NONCOMPLIANCE and the warning device fails to meet the requirements of S125, the test equipment and instrumentation used in that test must be checked for accuracy and calibration to validate the test failure. This check must be performed unless it is waived by the COTR.

APPENDIX C

PHOTOGRAPHS OF TEST EQUIPMENT

The test setup and equipment used therein are to be photographed for the record and the photographs inserted in this Appendices or a part of the Final Test Report. Normally one photograph of the test setup and equipment will suffice unless the setup is complicated and/or spread out thereby requiring two or more photographs. The equipment in the photographs must agree with those items noted in Appendix B. Each photograph must be accompanied by a suitable caption.