



# LUMINAIRE TESTING LABORATORY, INC.

SUSTAINING  
MEMBER  
of the  
IESNA

905 Harrison Street · Allentown, PA 18103 · 610-770-1044 · Fax 610-770-8912 · [www.LuminaireTesting.com](http://www.LuminaireTesting.com)

LTL NUMBER: 16523

DATE: 09-16-2009

PREPARED FOR: LEOTEK ELECTRONICS CORPORATION

CATALOG NUMBER: LCN2-096-MV-CW-5S-XX (XX IS THE FINISH COLOR: NUMERICAL NO. FROM 1-9 AND ALPH NO. FROM A-Z TO DEFINE DIFFERENT FINISH COLOR.)

LUMINAIRE: FORMED STEEL AND WHITE PLASTIC HOUSING, CAST ALUMINUM HEATSINK, WHITE PLASTIC REFLECTOR, CLEAR PRISMATIC PLASTIC LENS.

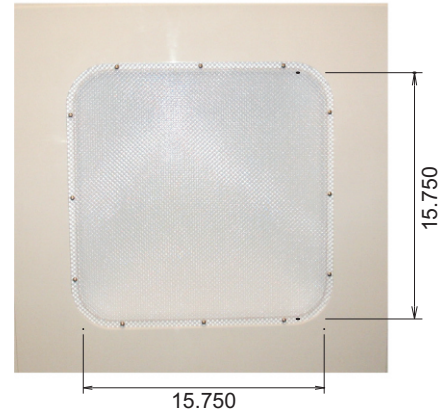
LAMP: (96) WHITE LEDS

LED POWER SUPPLIES: TWO LEOTEK ELECTRONICS CORP LP1090-24-GG-170

ELECTRICAL VALUES: 120.0VAC, 0.8096A, 96.23W, PF=0.990

LUMINAIRE EFFICACY: 71.1 LUMENS/WATT

NOTE: THIS TEST WAS PERFORMED USING THE CALIBRATED PHOTODETECTOR METHOD OF ABSOLUTE PHOTOMETRY. \*



IES CLASSIFICATION: **AREA LIGHT**  
CUTOFF CLASSIFICATION: **CUTOFF\*\***

\*\*CUTOFF DESIGNATION IS NOT DEFINED FOR ABSOLUTE PHOTOMETRIC TESTS. THIS CUTOFF RATING IS BASED ON THE MAXIMUM CANDELA READING PER LUMINAIRE RATED AT 1000 LUMENS.



### FLUX DISTRIBUTION

LUMENS	DOWNWARD	UPWARD	TOTALS
HOUSE SIDE	3410.74	0.00	3410.74
STREET SIDE	3432.95	0.00	3432.95
TOTALS	6843.69	0.00	6843.69

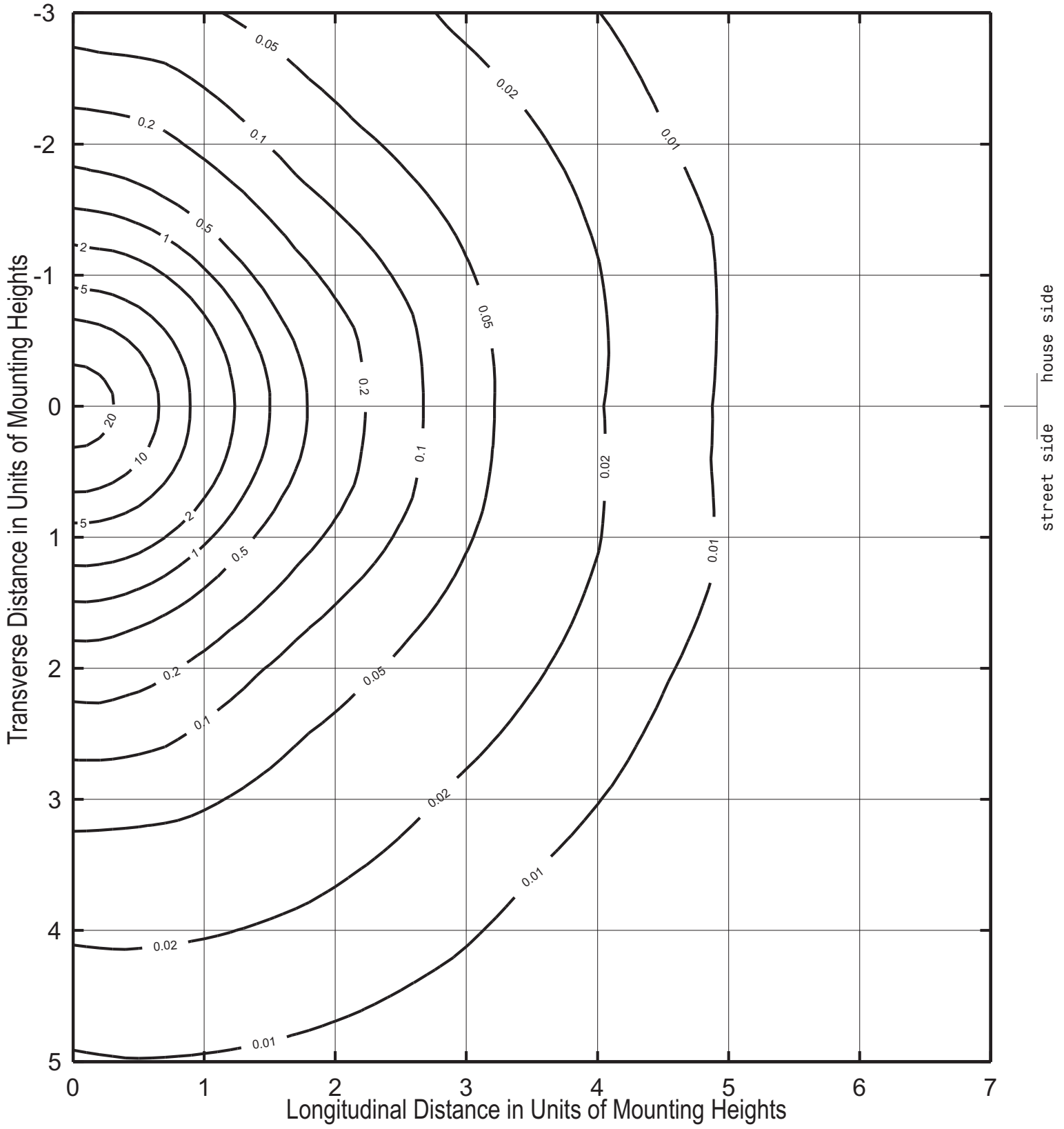
Approved By: MG

\*DATA WAS ACQUIRED USING THE CALIBRATED PHOTODETECTOR METHOD OF ABSOLUTE PHOTOMETRY. A UDT MODEL #211 PHOTODETECTOR AND UDT MODEL #S370 OPTOMETER COMBINATION WERE USED AS A STANDARD. A SPECTRAL MISMATCH CORRECTION FACTOR WAS EMPLOYED BASED ON THE SPECTRAL RESPONSIVITY OF THE PHOTODETECTOR AND THE SPECTRAL POWER DISTRIBUTION OF THE TEST SUBJECT.

**TESTING WAS PERFORMED IN ACCORDANCE WITH IES LM-79-08.**  
TEST ANGULAR INCREMENTS AND REPORT FORMATTING WAS BASED ON IES LM-31-95.



### ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINATION VALUES BASED ON 12.00 FOOT MOUNTING HEIGHT



PROJECTION OF HALF-MAX CANDELA CONTOUR



CANDELA DISTRIBUTION

Table with 12 columns (0-90) and 21 rows (180-0) showing Candela Distribution values.

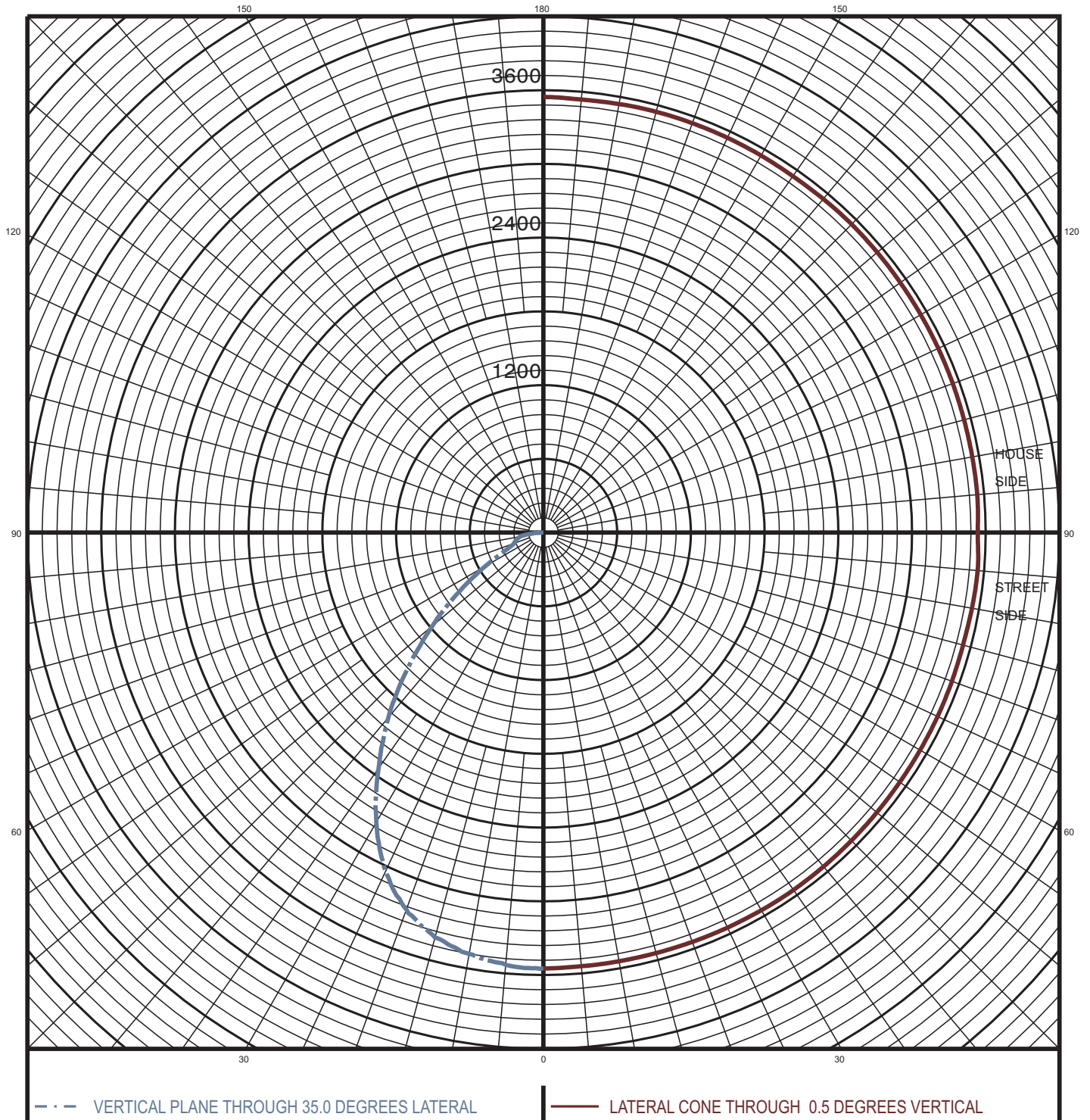


CANDELA DISTRIBUTION

Table with 11 columns (95, 105, 115, 125, 135, 145, 155, 165, 175, 180) and 21 rows (180, 175, 165, 155, 145, 135, 125, 115, 105, 95, 90, 87.5, 85, 82.5, 80, 77.5, 75, 72.5, 70, 67.5, 65, 62.5, 60, 57.5, 55, 52.5, 50, 47.5, 45, 40, 35, 30, 25, 20, 15, 10, 5, 0.5, 0). Values represent candela measurements for various beam diameters and heights.



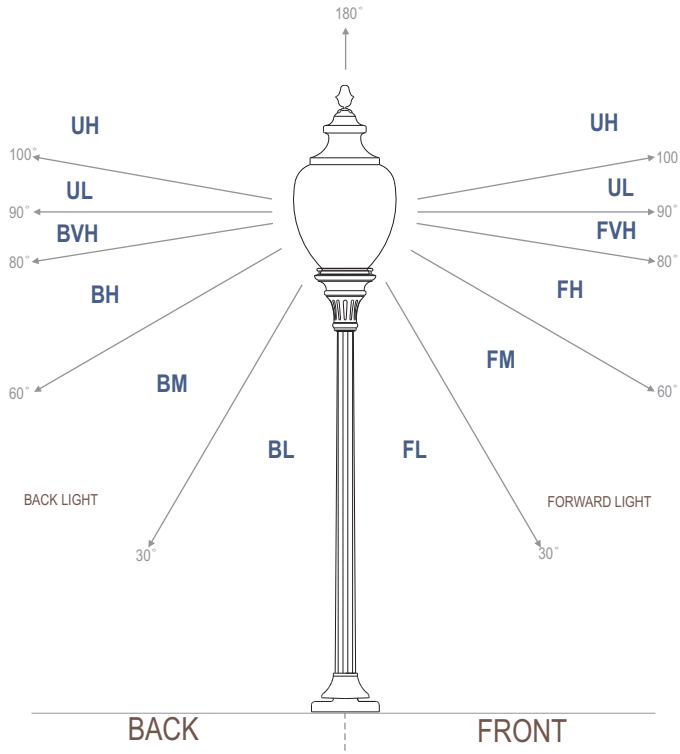
MAXIMUM PLANE AND CONE PLOTS OF CANDELA





FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM

FLUX



ZONE	LUMINAIRE LUMENS	% OF LUMINAIRE LUMENS
FORWARD LIGHT	3433	50.2
FL ( 0°-30°)	1339	19.6
FM (30°-60°)	1709	25
FH (60°-80°)	330	4.8
FVH (80°-90°)	55	0.8

BACK LIGHT	3411	49.8
BL ( 0°-30°)	1332	19.5
BM (30°-60°)	1696	24.8
BH (60°-80°)	329	4.8
BVH (80°-90°)	53	0.8

UPLIGHT	0	0
UL (90°-100°)	0	0
UH (100°-180°)	0	0

TRAPPED LIGHT	NA	NA
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