



# 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

LTL NUMBER: 12728

DATE: 03-13-2008

PREPARED FOR: PRECISION ARCHITECTURAL LIGHTING

CATALOG NUMBER: MLS-I1-4-X-OP-X-120-T5HO

LUMINAIRE: EXTRUDED ALUMINUM HOUSING, FORMED SPECULAR ALUMINUM REFLECTOR, OPEN TOP.

LAMP: ONE 54 WATT HIGH OUTPUT T5 LINEAR FLUORESCENT LAMP RATED AT 4400 LUMENS.

LAMP CATALOG NUMBER: PHILIPS F54T5/850/ALTO

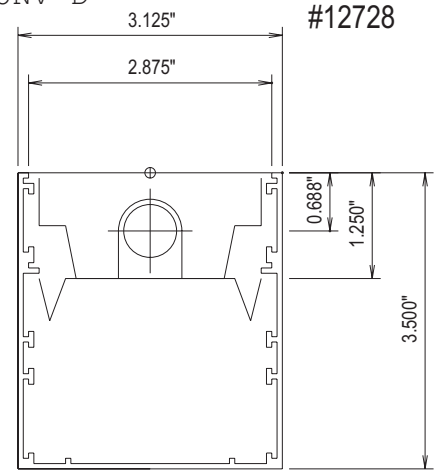
BALLAST: ONE UNIVERSAL LIGHTING TECHNOLOGIES B254PUNV-D

MOUNTING: PENDANT

LUMEN TO CANDELA RATIO USED = 9.18

TOTAL INPUT WATTS = 61.7 AT 120.0 VOLTS

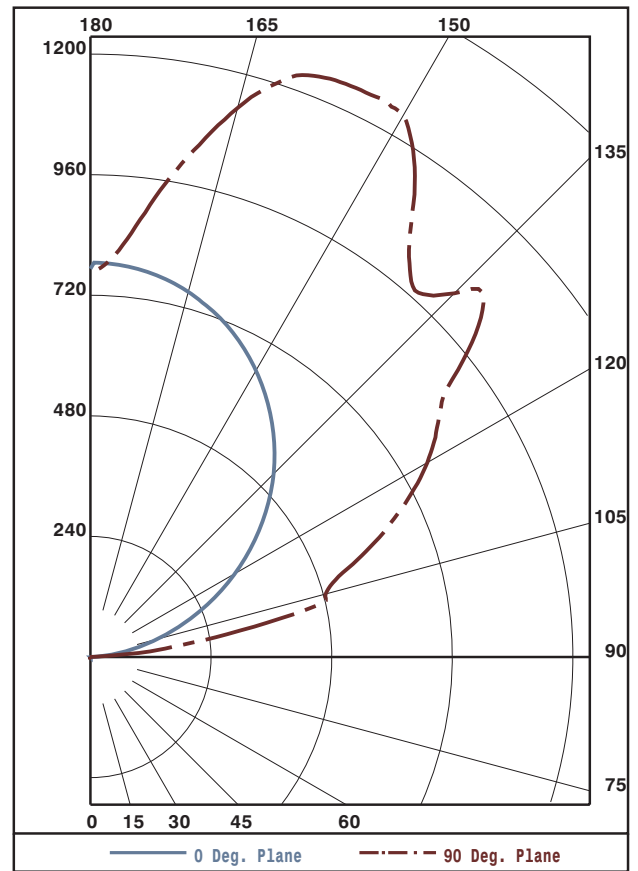
THE 0 DEGREE PLANE IS PARALLEL WITH THE LAMPS.



CANDELA DISTRIBUTION						FLUX
	0.0	22.5	45.0	67.5	90.0	
90	0	0	0	0	0	
95	32	126	120	107	102	118
105	149	303	398	460	494	394
115	281	481	595	659	678	552
125	412	728	808	841	849	673
135	531	872	934	939	1024	684
145	632	921	1121	1146	1115	634
155	712	890	1135	1217	1239	486
165	767	831	985	1086	1122	274
175	796	783	806	824	830	79
180	782	782	782	782	782	

ZONAL LUMEN SUMMARY				
ZONE	LUMENS	%LAMP	%FIXT	
0- 90	0	0.0	0.0	
90-120	1065	24.2	27.3	
90-130	1738	39.5	44.6	
90-150	3056	69.4	78.5	
90-180	3895	88.5	100.0	
0-180	3895	88.5	100.0	

TOTAL LUMINAIRE EFFICIENCY: 88.5%  
CIE TYPE: INDIRECT



Approved By: MG



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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD
EFFECTIVE FLOOR CAVITY REFLECTANCE 0.20

Table with columns for RC, RW, and various cavity dimensions (80, 70, 50, 30, 10) and rows for different heights (0-10).

CANDELA DISTRIBUTION

Table showing Candela values for various beam angles from 90 to 180 degrees.

ZONAL LUMEN SUMMARY

Table showing Zonal Lumen values for various beam angles from 90 to 180 degrees.

THIS TEST WAS CONDUCTED USING RELATIVE PHOTOMETRY TECHNIQUES ACCORDING TO STANDARD IESNA PROCEDURES. THE USER MUST THEREFORE USE CAUTION IN THE FOLLOWING SITUATIONS: 1) THIS TEST WAS PERFORMED USING A SPECIFIC BALLAST/LAMP COMBINATION. EXTRAPOLATION OF THESE DATA FOR OTHER BALLAST/LAMP COMBINATIONS MAY PRODUCE ERRONEOUS RESULTS. 2) ACCORDING TO IESNA PROCEDURES, THE BALLAST(S) AND LAMP(S) ARE PRESUMED TO PRODUCE 100% OF RATED OUTPUT. AN APPROPRIATE BALLAST FACTOR MUST BE APPLIED TO THE LUMEN OUTPUT RATINGS AND LUMINOUS INTENSITY VALUES GIVEN. 3) THIS TEST WAS CONDUCTED IN A CONTROLLED LABORATORY ENVIRONMENT WHERE THE AMBIENT TEMPERATURE WAS HELD AT 25°C ±1°C. FIELD PERFORMANCE MAY DIFFER PARTICULARLY IN REGARDS TO CHANGE IN LUMINOUS OUTPUT AS A RESULT OF DIFFERENCE IN AMBIENT TEMPERATURE AND METHOD OF MOUNTING THE LUMINAIRE.