



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: 13038

DATE: 04-11-2008

PREPARED FOR: PRECISION ARCHITECTURAL LIGHTING

CATALOG NUMBER: MLS-I1/D1-4-X-OP/PBW-X-120-T5HO

LUMINAIRE: EXTRUDED ALUMINUM HOUSING, FORMED SPECULAR ALUMINUM UPPER REFLECTOR, FORMED WHITE ENAMEL ALUMINUM LOWER REFLECTOR, 30 CELL, 3/4" DEEP, FORMED WHITE ENAMEL ALUMINUM LOWER BAFFLE, OPEN TOP.

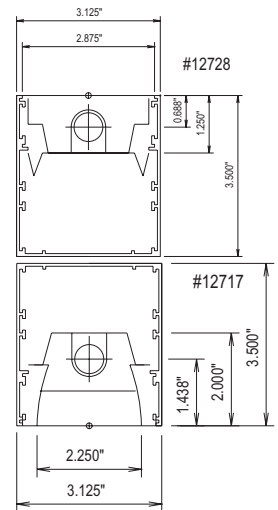
LAMPS: TWO 54 WATT HIGH OUTPUT T5 LINEAR FLUORESCENT LAMPS RATED AT 4400 LUMENS EACH.

LAMP CATALOG NUMBER: PHILIPS F54T5/850/HO/ALTO

BALLASTS: TWO UNIVERSAL LIGHTING TECHNOLOGIES B254PUNV-D

MOUNTING: PENDANT

NOTE: THIS TEST WAS CALCULATED USING MEASURED DATA FROM LTL TEST NUMBERS 12728 AND 12717.
LUMEN TO CANDELA RATIO USED = 9.18
TOTAL INPUT WATTS = 113.9 AT 120.0 VOLTS
THE 0 DEGREE PLANE IS PARALLEL WITH THE LAMPS.



CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0	1100	1100	1100	1100	1100
5	1089	1090	1101	1098	1099
15	1000	1011	1047	1077	1089
25	870	892	953	1003	1027
35	715	746	797	813	827
45	534	571	573	544	545
55	340	362	338	332	343
65	162	165	183	192	202
75	85	85	89	96	100
85	20	20	22	23	25
90	0	0	0	0	0
95	32	126	120	107	102
105	149	303	398	460	494
115	281	481	595	659	678
125	412	728	808	841	849
135	531	872	934	939	1024
145	632	921	1121	1146	1115
155	712	890	1135	1217	1239
165	767	831	985	1086	1122
175	796	783	806	824	830
180	782	782	782	782	782

FLUX

104
295
437
488
430
308
182
97
25
0
118
394
552
673
684
634
486
274
79

ZONAL LUMEN SUMMARY

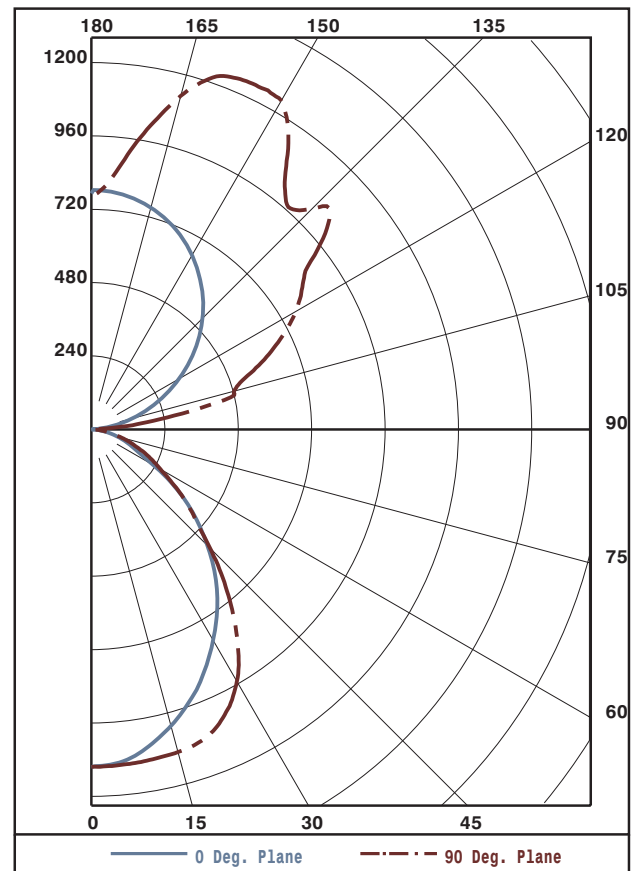
ZONE	LUMENS	%LAMP	%FIXT
0- 30	836	9.5	13.4
0- 40	1324	15.0	21.2
0- 60	2061	23.4	32.9
0- 90	2364	26.9	37.8
90-120	1065	12.1	17.0
90-130	1738	19.8	27.8
90-150	3056	34.7	48.8
90-180	3895	44.3	62.2
0-180	6259	71.1	100.0

TOTAL LUMINAIRE EFFICIENCY: 71.1%

CIE TYPE: SEMI-INDIRECT

PLANE: 0-DEG 90-DEG

SHIELDING ANGLES: 29 41



Approved By: MG

THIS REPORT BASED ON LM-41 AND OTHER PERTINENT IESNA PROCEDURES.



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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 reflectance values (80, 70, 50, 30, 10, 0) and rows for different utilization coefficients (0-10).

PLANE: 0-DEG 90-DEG
LUMINOUS LENGTH: 44.875 2.250

Table showing LUMINANCE IN CANDELA PER SQUARE METER for various angles (0, 45, 55, 65, 75, 85) and average values at 0, 45, and 90 degrees.



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CANDELA DISTRIBUTION

ZONAL LUMEN SUMMARY

Table with 6 columns for Candela Distribution (0.0 to 180) and 3 columns for Zonal Lumen Summary (0-5 to 175-180).

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.