



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: 12724

DATE: 02-28-2008

PREPARED FOR: PRECISION ARCHITECTURAL LIGHTING

CATALOG NUMBER: MLS-D2-4-X-PB-X-120-T5

LUMINAIRE: EXTRUDED ALUMINUM HOUSING, FORMED WHITE ENAMEL ALUMINUM REFLECTOR, 30 CELL, 3/4" DEEP, FORMED SEMI-SPECULAR ALUMINUM BAFFLE.

LAMP: TWO 28 WATT T5 LINEAR FLUORESCENT LAMPS RATED AT 2610 LUMENS EACH.

LAMP CATALOG NUMBER: PHILIPS F28T5/835/ALTO

BALLAST: ONE ADVANCE ICN-2S28

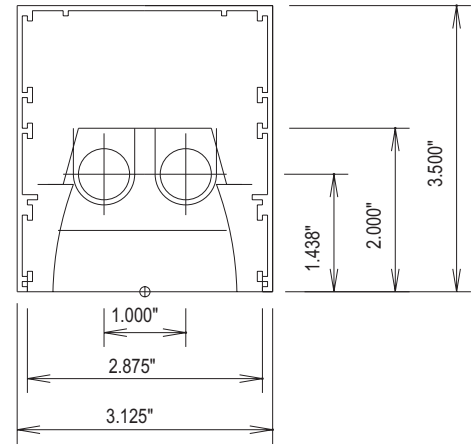
MOUNTING: PENDANT

LUMEN TO CANDELA RATIO USED = 9.18

TOTAL INPUT WATTS = 52.5 AT 120.0 VOLTS

THE 0 DEGREE PLANE IS PARALLEL WITH THE LAMPS.

#12724



CANDELA DISTRIBUTION						FLUX
0.0	22.5	45.0	67.5	90.0		
0	1217	1217	1217	1217	1217	
5	1212	1212	1218	1212	1214	115
15	1144	1150	1167	1166	1168	327
25	1033	1040	1041	1050	1060	481
35	886	881	880	892	919	557
45	697	683	686	715	729	536
55	441	419	393	323	284	335
65	108	102	90	75	61	95
75	27	22	18	19	19	23
85	3	3	3	3	3	4
90	0	0	0	0	0	

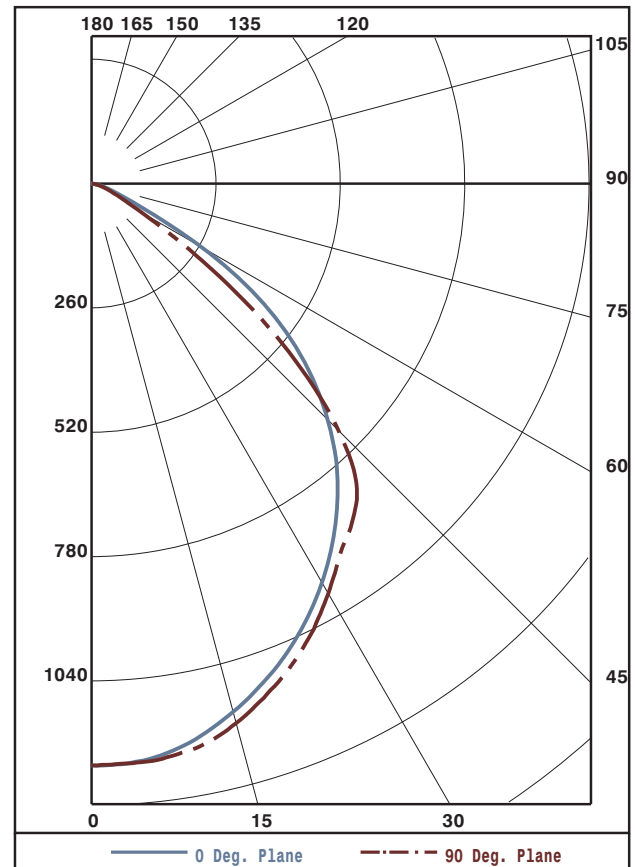
ZONAL LUMEN SUMMARY				
ZONE	LUMENS	%LAMP	%FIXT	
0- 30	924	17.7	37.4	
0- 40	1481	28.4	59.9	
0- 60	2351	45.0	95.1	
0- 90	2472	47.4	100.0	
90-180	0	0.0	0.0	
0-180	2472	47.4	100.0	

TOTAL LUMINAIRE EFFICIENCY: 47.4%

CIE TYPE: DIRECT
 PLANE: 0-DEG 90-DEG
 SPACING CRITERIA: 1.2 1.2
 SHIELDING ANGLES: 29 34
 LUMINOUS LENGTH: 48.000 2.250

LUMINANCE IN CANDELA PER SQUARE METER

ANGLE IN DEG	AVERAGE 0-DEG	AVERAGE 45-DEG	AVERAGE 90-DEG
0	17465.	17465.	17465.
45	14146.	13922.	14795.
55	11034.	9833.	7106.
65	3667.	3056.	2071.
75	1497.	998.	1053.
85	494.	494.	494.



Approved By: MG



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

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	56	56	56	56	55	55	55	55	53	53	53	50	50	50	48	48	48	47
1	53	51	50	49	52	50	49	48	48	47	46	47	46	45	45	44	44	43
2	50	47	44	42	48	46	44	42	44	42	41	43	41	40	41	40	39	38
3	46	42	39	37	45	42	39	37	40	38	36	39	37	36	38	36	35	34
4	43	38	35	33	42	38	35	32	37	34	32	36	33	32	35	33	31	30
5	40	35	31	29	39	34	31	28	33	30	28	32	30	28	32	29	28	27
6	37	31	28	25	36	31	28	25	30	27	25	30	27	25	29	26	25	24
7	34	28	25	22	33	28	25	22	27	24	22	27	24	22	26	24	22	21
8	31	26	22	19	31	25	22	19	25	22	19	24	21	19	24	21	19	18
9	29	23	19	17	28	23	19	17	22	19	17	22	19	17	21	19	17	16
10	27	21	17	15	26	21	17	15	20	17	15	20	17	15	19	17	15	14

CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0	1217	1217	1217	1217	1217
5	1212	1212	1218	1212	1214
10	1187	1190	1201	1199	1202
15	1144	1150	1167	1166	1168
20	1093	1100	1110	1112	1119
25	1033	1040	1041	1050	1060
30	963	967	965	975	990
35	886	881	880	892	919
40	799	788	787	822	863
45	697	683	686	715	729
50	582	564	564	534	520
55	441	419	393	323	284
60	264	254	214	151	118
65	108	102	90	75	61
70	51	44	36	39	34
75	27	22	18	19	19
80	11	9	8	9	9
85	3	3	3	3	3
90	0	0	0	0	0

ZONAL LUMEN SUMMARY

ZONAL	LUMEN	SUMMARY
0-	5	29.
5-	10	86.
10-	15	140.
15-	20	187.
20-	25	226.
25-	30	255.
30-	35	274.
35-	40	283.
40-	45	281.
45-	50	255.
50-	55	203.
55-	60	132.
60-	65	65.
65-	70	30.
70-	75	15.
75-	80	8.
80-	85	3.
85-	90	1.

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.