



# 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: 12725

DATE: 03-13-2008

PREPARED FOR: PRECISION ARCHITECTURAL LIGHTING

CATALOG NUMBER: MLS-D1-4-X-LP-X-120-T8

LUMINAIRE: EXTRUDED ALUMINUM HOUSING, FORMED WHITE ENAMEL ALUMINUM REFLECTOR, CLEAR LINEAR PRISMATIC PLASTIC LENS.

LAMP: ONE 32 WATT T8 LINEAR FLUORESCENT LAMP RATED AT 2850 LUMENS.

LAMP CATALOG NUMBER: PHILIPS F32T8/TL835/ALTO

BALLAST: ONE UNIVERSAL LIGHTING TECHNOLOGIES B232IUNV-C

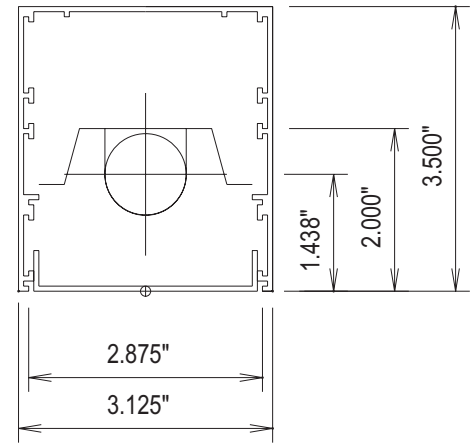
MOUNTING: PENDANT

LUMEN TO CANDELA RATIO USED = 9.18

TOTAL INPUT WATTS = 32.5 AT 120.0 VOLTS

THE 0 DEGREE PLANE IS PARALLEL WITH THE LAMPS.

#12725



### CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0	675	675	675	675	675
5	674	671	675	671	672
15	652	649	647	637	635
25	605	595	576	554	547
35	533	507	467	441	435
45	431	385	349	326	316
55	293	253	215	184	173
65	142	136	111	96	92
75	50	59	59	56	55
85	8	16	20	19	19
90	0	1	3	3	3

### FLUX

64
182
265
297
276
198
115
60
19

### ZONAL LUMEN SUMMARY

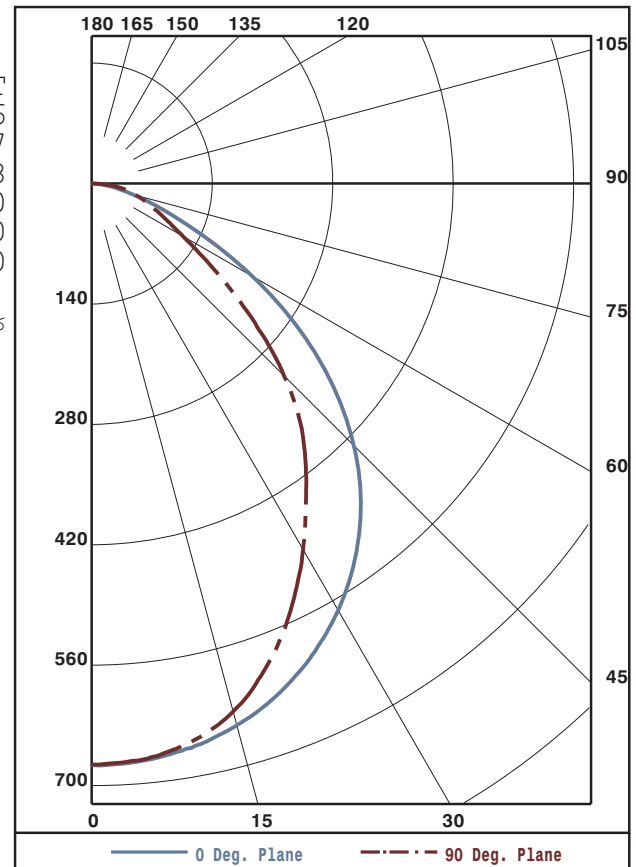
ZONE	LUMENS	%LAMP	%FIXT
0- 30	510	17.9	34.6
0- 40	807	28.3	54.7
0- 60	1281	45.0	86.8
0- 90	1476	51.8	100.0
90-180	0	0.0	0.0
0-180	1476	51.8	100.0

TOTAL LUMINAIRE EFFICIENCY: 51.8%

CIE TYPE: DIRECT  
 PLANE: 0-DEG 90-DEG  
 SPACING CRITERIA: 1.3 1.1  
 LUMINOUS LENGTH: 48.000 2.875

### LUMINANCE IN CANDELA PER SQUARE METER

ANGLE IN DEG	AVERAGE 0-DEG	AVERAGE 45-DEG	AVERAGE 90-DEG
0	7581.	7581.	7581.
45	6846.	5543.	5019.
55	5737.	4210.	3387.
65	3774.	2950.	2445.
75	2170.	2560.	2387.
85	1031.	2577.	2448.



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	62	62	62	62	60	60	60	60	58	58	58	55	55	55	53	53	53	52
1	57	55	53	52	56	54	52	51	52	51	49	50	49	48	48	47	46	45
2	53	50	47	44	52	49	46	44	47	45	43	45	43	42	44	42	41	40
3	49	45	41	38	48	44	40	38	42	39	37	41	39	37	40	38	36	35
4	46	40	36	33	44	39	36	33	38	35	32	37	34	32	36	34	32	31
5	42	36	32	29	41	35	32	29	34	31	28	33	30	28	32	30	28	27
6	39	33	28	25	38	32	28	25	31	28	25	30	27	25	30	27	25	24
7	36	29	25	22	35	29	25	22	28	25	22	28	24	22	27	24	22	21
8	33	27	22	20	32	26	22	20	26	22	19	25	22	19	24	21	19	18
9	31	24	20	17	30	24	20	17	23	19	17	23	19	17	22	19	17	16
10	29	22	18	15	28	22	18	15	21	18	15	21	17	15	20	17	15	14

CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0	675	675	675	675	675
5	674	671	675	671	672
10	666	663	665	659	660
15	652	649	647	637	635
20	632	626	617	601	596
25	605	595	576	554	547
30	573	555	526	499	492
35	533	507	467	441	435
40	486	449	407	387	381
45	431	385	349	326	316
50	367	320	283	253	242
55	293	253	215	184	173
60	215	189	157	130	122
65	142	136	111	96	92
70	87	93	80	73	71
75	50	59	59	56	55
80	25	34	41	39	38
85	8	16	20	19	19
90	0	1	3	3	3

ZONAL LUMEN SUMMARY

0- 5	16.
5- 10	48.
10- 15	78.
15- 20	104.
20- 25	125.
25- 30	140.
30- 35	148.
35- 40	149.
40- 45	144.
45- 50	131.
50- 55	111.
55- 60	87.
60- 65	66.
65- 70	49.
70- 75	35.
75- 80	25.
80- 85	15.
85- 90	5.

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.