



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: 12727

DATE: 03-13-2008

PREPARED FOR: PRECISION ARCHITECTURAL LIGHTING

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

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

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

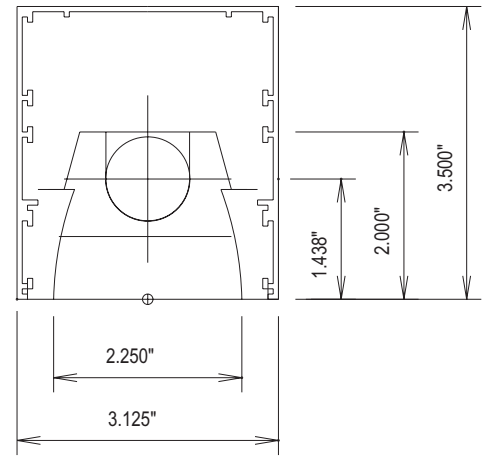
LAMP CATALOG NUMBER: PHILIPS F32T8/TL835/ALTO

BALLAST: ONE UNIVERSAL LIGHTING TECHNOLOGIES B232IUNV-C

MOUNTING: PENDANT

LUMEN TO CANDELA RATIO USED = 9.18
TOTAL INPUT WATTS = 33.0 AT 120.0 VOLTS
THE 0 DEGREE PLANE IS PARALLEL WITH THE LAMPS.

#12727

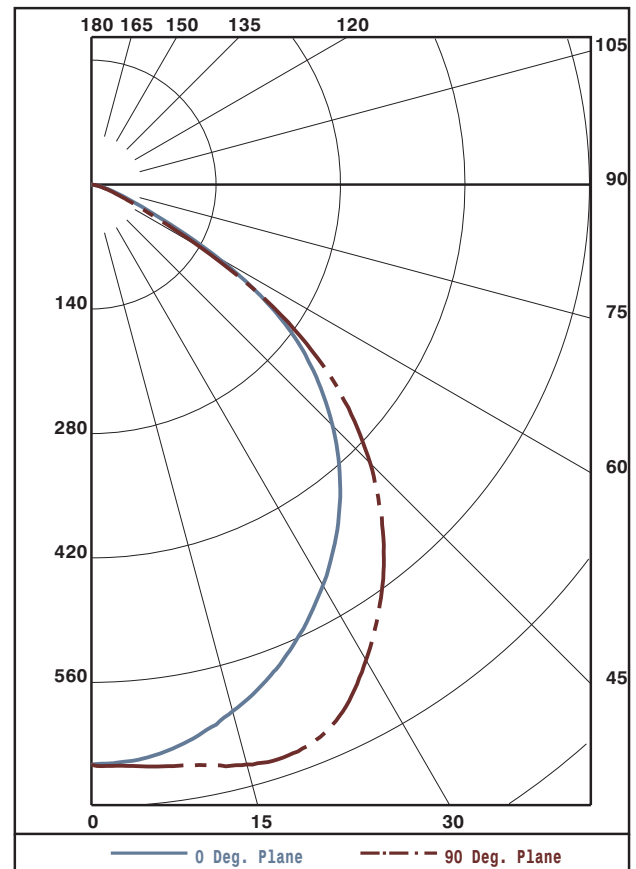


CANDELA DISTRIBUTION						FLUX
	0.0	22.5	45.0	67.5	90.0	
0	653	653	653	653	653	
5	648	648	655	654	657	62
15	613	622	646	666	675	182
25	556	576	620	648	660	282
35	480	513	544	552	568	333
45	384	415	417	425	443	322
55	256	266	259	260	270	232
65	74	74	78	68	56	77
75	18	15	13	13	13	16
85	2	1	1	1	2	2
90	0	0	0	0	0	

ZONAL LUMEN SUMMARY			
ZONE	LUMENS	%LAMP	%FIXT
0- 30	527	18.5	34.9
0- 40	860	30.2	57.0
0- 60	1414	49.6	93.7
0- 90	1508	52.9	100.0
90-180	0	0.0	0.0
0-180	1508	52.9	100.0

TOTAL LUMINAIRE EFFICIENCY: 52.9%
CIE TYPE: DIRECT
PLANE: 0-DEG 90-DEG
SPACING CRITERIA: 1.2 1.4
SHIELDING ANGLES: 29 34
LUMINOUS LENGTH: 44.875 2.250

LUMINANCE IN CANDELA PER SQUARE METER			
ANGLE IN DEG	AVERAGE 0-DEG	AVERAGE 45-DEG	AVERAGE 90-DEG
0	10024.	10024.	10024.
45	8336.	9052.	9617.
55	6851.	6931.	7226.
65	2688.	2833.	2034.
75	1068.	771.	771.
85	352.	176.	352.



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	63	63	63	63	62	62	62	62	59	59	59	56	56	56	54	54	54	53
1	59	57	56	54	58	56	55	53	54	53	52	52	51	50	50	49	49	47
2	55	52	49	47	54	51	48	46	49	47	45	47	46	44	46	45	43	42
3	51	47	43	41	50	46	43	40	45	42	40	43	41	39	42	40	38	37
4	47	42	38	36	46	42	38	35	40	37	35	39	37	34	38	36	34	33
5	44	38	34	31	43	37	34	31	36	33	30	35	32	30	34	32	30	29
6	40	34	30	27	40	34	30	27	33	29	27	32	29	27	31	29	26	25
7	37	31	27	24	37	31	27	24	30	26	24	29	26	23	28	25	23	22
8	34	28	24	21	34	27	23	21	27	23	21	26	23	20	26	23	20	19
9	32	25	21	18	31	25	21	18	24	20	18	23	20	18	23	20	18	17
10	29	23	19	16	29	22	18	16	22	18	16	21	18	16	21	18	16	15

CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0	653	653	653	653	653
5	648	648	655	654	657
10	635	639	652	658	663
15	613	622	646	666	675
20	588	601	638	666	679
25	556	576	620	648	660
30	520	548	591	606	618
35	480	513	544	552	568
40	435	469	483	492	510
45	384	415	417	425	443
50	326	348	344	349	365
55	256	266	259	260	270
60	162	168	164	157	143
65	74	74	78	68	56
70	36	33	29	31	27
75	18	15	13	13	13
80	7	6	6	6	7
85	2	1	1	1	2
90	0	0	0	0	0

ZONAL LUMEN SUMMARY

0- 5	16.
5- 10	47.
10- 15	77.
15- 20	106.
20- 25	131.
25- 30	151.
30- 35	164.
35- 40	169.
40- 45	167.
45- 50	155.
50- 55	133.
55- 60	98.
60- 65	54.
65- 70	23.
70- 75	11.
75- 80	5.
80- 85	2.
85- 90	0.

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.