



# 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

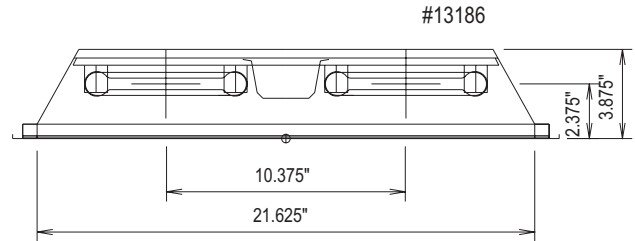
LTL NUMBER: 13186 DATE: 06-30-2008  
 PREPARED FOR: EB FLUORESCENT COMPANY, INC.  
 CATALOG NUMBER: G2X2 2/31 C  
 LUMINAIRE: FORMED WHITE ENAMEL STEEL HOUSING/REFLECTOR, CLEAR PRISMATIC PLASTIC LENS.  
 LAMPS: TWO 32 WATT U-SHAPED T8 FLUORESCENT LAMPS RATED AT 2800 LUMENS EACH.  
 LAMP CATALOG NUMBER: PHILIPS FB32T8/TL841/6/ALTO  
 BALLAST: ONE UNIVERSAL LIGHTING TECHNOLOGIES B232IUNVHP-B  
 MOUNTING: RECESSED  
 TOTAL INPUT WATTS = 56.0 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	1492	1492	1492	1492	1492
5	1486	1485	1486	1488	1489
15	1421	1427	1441	1455	1461
25	1293	1307	1337	1367	1379
35	1103	1118	1157	1202	1223
45	834	837	883	925	959
55	548	557	598	631	648
65	313	300	281	314	328
75	168	149	134	165	196
85	59	58	56	75	72
90	0	0	0	0	0

### FLUX

142
407
616
725
684
531
306
167
67



### ZONAL LUMEN SUMMARY

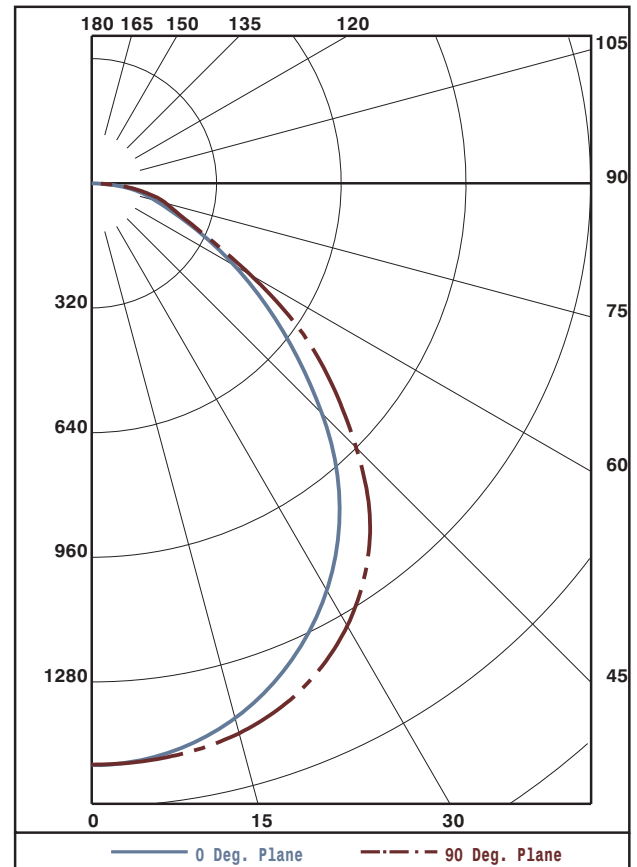
ZONE	LUMENS	%LAMP	%FIXT
0- 30	1165	20.8	32.0
0- 40	1889	33.7	51.8
0- 60	3104	55.4	85.2
0- 90	3644	65.1	100.0
90-180	0	0.0	0.0
0-180	3644	65.1	100.0

TOTAL LUMINAIRE EFFICIENCY: 65.1%  
 TOTAL REFLECTANCE OF PAINT: 82.3%  
 CIE TYPE: DIRECT  
 PLANE: 0-DEG 90-DEG  
 SPACING CRITERIA: 1.2 1.3

LUMINOUS LENGTH: 21.500 21.625

### LUMINANCE IN CANDELA PER SQUARE METER

ANGLE IN DEG	AVERAGE 0-DEG	AVERAGE 45-DEG	AVERAGE 90-DEG
0	4974.	4974.	4974.
45	3932.	4163.	4521.
55	3185.	3475.	3766.
65	2469.	2216.	2587.
75	2164.	1726.	2524.
85	2257.	2142.	2754.



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	
0	77	77	77	77	76	76	76	76	72	72	72	69	69	69	66	66	66	65
1	72	69	67	65	70	68	65	63	65	63	61	62	61	60	60	59	58	57
2	66	62	58	55	65	60	57	54	58	55	53	56	54	51	54	52	50	49
3	61	55	51	47	60	54	50	46	52	49	46	51	48	45	49	46	44	43
4	57	50	44	40	55	49	44	40	47	43	40	46	42	39	44	41	39	37
5	52	44	39	35	51	44	38	35	42	38	34	41	37	34	40	36	34	32
6	48	40	34	31	47	39	34	30	38	34	30	37	33	30	36	33	30	28
7	44	36	31	27	43	35	30	27	35	30	27	34	29	26	33	29	26	25
8	41	32	27	23	40	32	27	23	31	26	23	30	26	23	30	26	23	22
9	38	29	24	20	37	29	24	20	28	23	20	27	23	20	27	23	20	19
10	35	26	21	18	34	26	21	18	25	21	18	25	21	18	24	20	18	17

### CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0	1492	1492	1492	1492	1492
5	1486	1485	1486	1488	1489
10	1461	1463	1470	1477	1480
15	1421	1427	1441	1455	1461
20	1364	1375	1397	1420	1428
25	1293	1307	1337	1367	1379
30	1206	1223	1257	1296	1311
35	1103	1118	1157	1202	1223
40	980	987	1032	1076	1110
45	834	837	883	925	959
50	684	695	740	779	806
55	548	557	598	631	648
60	422	425	435	462	470
65	313	300	281	314	328
70	226	207	175	221	243
75	168	149	134	165	196
80	121	102	107	124	142
85	59	58	56	75	72
90	0	0	0	0	0

### ZONAL LUMEN SUMMARY

0- 5	36.
5- 10	106.
10- 15	173.
15- 20	234.
20- 25	287.
25- 30	329.
30- 35	357.
35- 40	368.
40- 45	356.
45- 50	328.
50- 55	291.
55- 60	240.
60- 65	179.
65- 70	127.
70- 75	94.
75- 80	73.
80- 85	50.
85- 90	16.

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.