



# 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: 13188

DATE: 06-19-2008

PREPARED FOR: EB FLUORESCENT COMPANY, INC.

CATALOG NUMBER: G2X4 3/32 C

LUMINAIRE: FORMED WHITE ENAMEL STEEL HOUSING/REFLECTOR, CLEAR PRISMATIC PLASTIC LENS.

LAMPS: THREE 32 WATT T8 LINEAR FLUORESCENT LAMPS RATED AT 2850 LUMENS EACH.

LAMP CATALOG NUMBER: PHILIPS F32T8/TL841/ALTO

BALLAST: ONE ADVANCE ICN-3P32-SC

MOUNTING: RECESSED

TOTAL INPUT WATTS = 82.4 AT 120.0 VOLTS

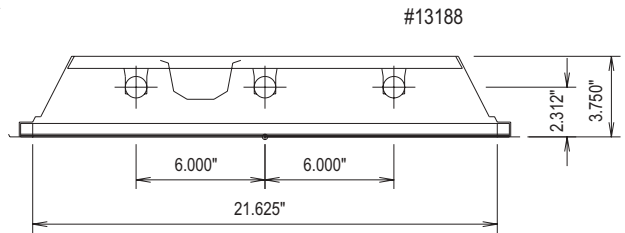
THE 0 DEGREE PLANE IS PARALLEL WITH THE LAMPS.

### CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0	2441	2441	2441	2441	2441
5	2435	2433	2434	2436	2437
15	2347	2357	2383	2409	2418
25	2163	2195	2263	2322	2344
35	1880	1934	2036	2130	2166
45	1469	1512	1643	1738	1790
55	999	1021	1140	1171	1214
65	576	553	555	610	615
75	289	290	259	332	342
85	113	111	111	145	139
90	0	7	13	24	23

### FLUX

232
674
1042
1269
1256
990
582
319
130



### ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LAMP	%FIXT
0- 30	1948	22.8	30.0
0- 40	3217	37.6	49.5
0- 60	5463	63.9	84.1
0- 90	6495	76.0	100.0
90-180	0	0.0	0.0
0-180	6495	76.0	100.0

TOTAL LUMINAIRE EFFICIENCY: 76.0%

TOTAL REFLECTANCE OF PAINT: 85.0%

CIE TYPE: DIRECT

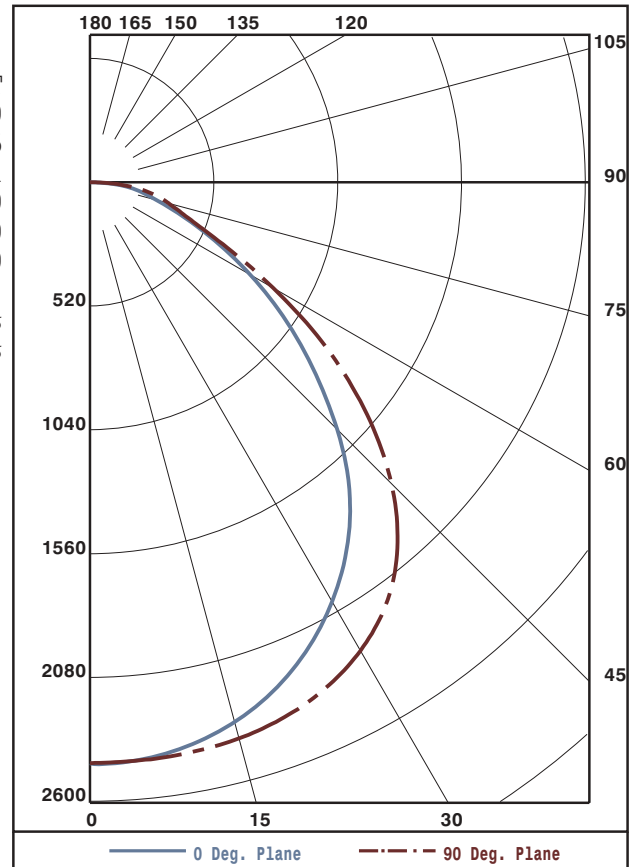
PLANE: 0-DEG 90-DEG

SPACING CRITERIA: 1.2 1.4

LUMINOUS LENGTH: 45.375 21.625

### LUMINANCE IN CANDELA PER SQUARE METER

ANGLE IN DEG	AVERAGE 0-DEG	AVERAGE 45-DEG	AVERAGE 90-DEG
0	3856.	3856.	3856.
45	3281.	3670.	3998.
55	2751.	3139.	3343.
65	2153.	2074.	2299.
75	1764.	1581.	2087.
85	2048.	2012.	2519.



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	90	90	90	90	88	88	88	88	84	84	84	81	81	81	78	78	78	76
1	84	80	77	75	82	79	76	74	75	73	71	73	71	69	70	68	67	66
2	77	71	67	63	75	70	66	62	67	64	61	65	62	59	63	60	58	57
3	71	64	58	54	69	63	58	53	60	56	52	58	55	52	57	53	51	49
4	65	57	51	46	64	56	50	46	54	49	45	53	48	45	51	47	44	43
5	60	51	44	40	58	50	44	40	48	43	39	47	42	39	46	42	38	37
6	55	46	39	35	54	45	39	35	44	38	34	42	38	34	41	37	34	32
7	51	41	35	30	50	41	34	30	39	34	30	38	33	30	37	33	30	28
8	47	37	31	26	46	36	30	26	35	30	26	34	29	26	34	29	26	24
9	43	33	27	23	42	33	27	23	32	26	22	31	26	22	30	26	22	21
10	40	30	24	20	39	30	24	20	29	24	20	28	23	20	28	23	20	18

CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0	2441	2441	2441	2441	2441
5	2435	2433	2434	2436	2437
10	2402	2405	2416	2427	2432
15	2347	2357	2383	2409	2418
20	2268	2287	2333	2375	2390
25	2163	2195	2263	2322	2344
30	2034	2079	2167	2244	2272
35	1880	1934	2036	2130	2166
40	1695	1744	1859	1961	2007
45	1469	1512	1643	1738	1790
50	1226	1269	1410	1473	1519
55	999	1021	1140	1171	1214
60	778	776	835	864	888
65	576	553	555	610	615
70	411	394	363	440	439
75	289	290	259	332	342
80	208	198	200	242	258
85	113	111	111	145	139
90	0	7	13	24	23

ZONAL LUMEN SUMMARY

0- 5	58.
5- 10	174.
10- 15	285.
15- 20	389.
20- 25	482.
25- 30	560.
30- 35	619.
35- 40	650.
40- 45	647.
45- 50	610.
50- 55	543.
55- 60	447.
60- 65	338.
65- 70	244.
70- 75	181.
75- 80	138.
80- 85	95.
85- 90	35.

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.