



# 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: 13191

DATE: 06-18-2008

PREPARED FOR: EB FLUORESCENT COMPANY, INC.

CATALOG NUMBER: G1X4 2/54 C

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

LAMPS: TWO 54 WATT HIGH OUTPUT T5 LINEAR FLUORESCENT LAMPS RATED AT 4400 LUMENS EACH.

LAMP CATALOG NUMBER: PHILIPS F54T5/TL841/HO/ALTO

BALLAST: ONE KEYSTONE TECHNOLOGIES KTEB-254T5HO-UV-TP-PS/LS

MOUNTING: RECESSED

TOTAL INPUT WATTS =101.8 AT 120.0 VOLTS

THE 0 DEGREE PLANE IS PARALLEL WITH THE LAMPS.

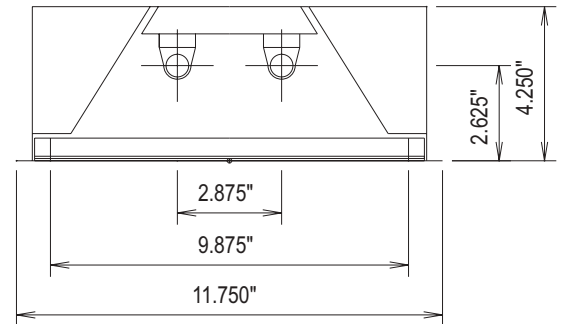
#13191

### CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0	2776	2776	2776	2776	2776
5	2765	2764	2761	2765	2765
15	2661	2661	2660	2668	2670
25	2438	2441	2448	2464	2468
35	2087	2091	2097	2113	2113
45	1588	1560	1573	1522	1515
55	998	974	946	875	863
65	522	488	433	449	440
75	277	269	236	287	305
85	110	104	98	132	126
90	0	0	0	0	0

### FLUX

	263
	752
	1130
	1311
	1197
	836
	467
	286
	117



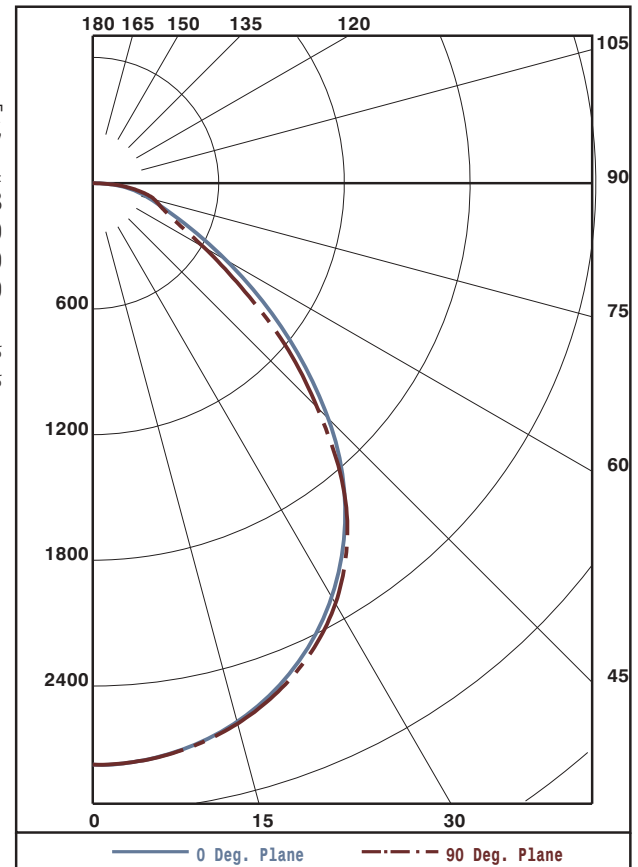
### ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LAMP	%FIXT
0- 30	2145	24.4	33.7
0- 40	3456	39.3	54.4
0- 60	5489	62.4	86.3
0- 90	6359	72.3	100.0
90-180	0	0.0	0.0
0-180	6359	72.3	100.0

TOTAL LUMINAIRE EFFICIENCY: 72.3%  
 TOTAL REFLECTANCE OF PAINT: 84.3%  
 CIE TYPE: DIRECT  
 PLANE: 0-DEG 90-DEG  
 SPACING CRITERIA: 1.2 1.2  
 LUMINOUS LENGTH: 45.750 9.875

### LUMINANCE IN CANDELA PER SQUARE METER

ANGLE IN DEG	AVERAGE 0-DEG	AVERAGE 45-DEG	AVERAGE 90-DEG
0	9523.	9523.	9523.
45	7704.	7632.	7350.
55	5969.	5658.	5162.
65	4237.	3515.	3572.
75	3672.	3128.	4043.
85	4330.	3857.	4960.



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	86	86	86	86	84	84	84	84	80	80	80	77	77	77	74	74	74	72
1	80	77	74	72	78	75	73	71	72	70	69	69	68	66	67	66	65	63
2	74	69	65	61	72	67	64	60	65	62	59	63	60	58	61	58	56	55
3	68	62	57	53	67	61	56	52	59	55	51	57	53	51	55	52	50	48
4	63	56	50	46	62	55	50	46	53	48	45	51	48	44	50	47	44	42
5	58	50	44	40	57	49	44	40	48	43	39	46	42	39	45	41	38	37
6	54	45	39	35	53	45	39	35	43	38	35	42	38	34	41	37	34	33
7	50	41	35	31	49	40	35	31	39	34	31	38	34	30	37	33	30	29
8	46	37	31	27	45	36	31	27	35	30	27	35	30	27	34	30	26	25
9	43	33	27	24	42	33	27	23	32	27	23	31	27	23	30	26	23	22
10	40	30	25	21	39	30	24	21	29	24	21	28	24	21	28	24	21	19

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25	2438	2441	2448	2464	2468
30	2280	2284	2293	2311	2316
35	2087	2091	2097	2113	2113
40	1860	1849	1856	1857	1848
45	1588	1560	1573	1522	1515
50	1288	1266	1260	1204	1195
55	998	974	946	875	863
60	733	697	645	618	612
65	522	488	433	449	440
70	373	357	298	356	354
75	277	269	236	287	305
80	207	184	186	215	231
85	110	104	98	132	126
90	0	0	0	0	0

ZONAL LUMEN SUMMARY

0- 5	66.
5- 10	197.
10- 15	320.
15- 20	432.
20- 25	528.
25- 30	602.
30- 35	649.
35- 40	662.
40- 45	632.
45- 50	564.
50- 55	473.
55- 60	363.
60- 65	267.
65- 70	200.
70- 75	159.
75- 80	127.
80- 85	87.
85- 90	30.

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.