



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: 13184

DATE: 06-19-2008

PREPARED FOR: EB FLUORESCENT COMPANY, INC.

CATALOG NUMBER: G2X4 4/54 C

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

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

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

BALLAST: ONE SYLVANIA QTP 4X54T5HO/UNV PSN HT W

MOUNTING: RECESSED

TOTAL INPUT WATTS =211.5 AT 120.0 VOLTS

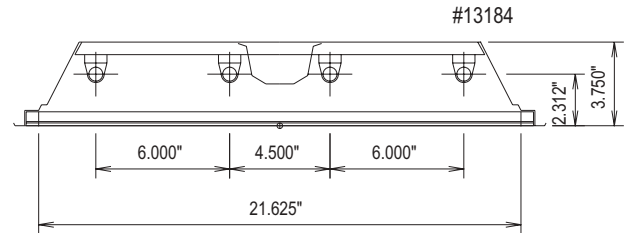
THE 0 DEGREE PLANE IS PARALLEL WITH THE LAMPS.

CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0	5153	5153	5153	5153	5153
5	5139	5138	5138	5137	5141
15	4956	4971	5011	5039	5059
25	4569	4614	4715	4784	4827
35	3962	4031	4184	4293	4370
45	3074	3122	3331	3428	3565
55	2068	2088	2341	2409	2547
65	1177	1146	1170	1248	1312
75	596	585	533	659	703
85	236	229	233	278	294
90	3	19	37	51	66

FLUX

489
1415
2169
2604
2546
2037
1209
649
266



ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LAMP	%FIXT
0- 30	4074	23.1	30.4
0- 40	6678	37.9	49.9
0- 60	11261	64.0	84.1
0- 90	13385	76.0	100.0
90-180	0	0.0	0.0
0-180	13385	76.0	100.0

TOTAL LUMINAIRE EFFICIENCY: 76.0%

TOTAL REFLECTANCE OF PAINT: 83.1%

CIE TYPE: DIRECT

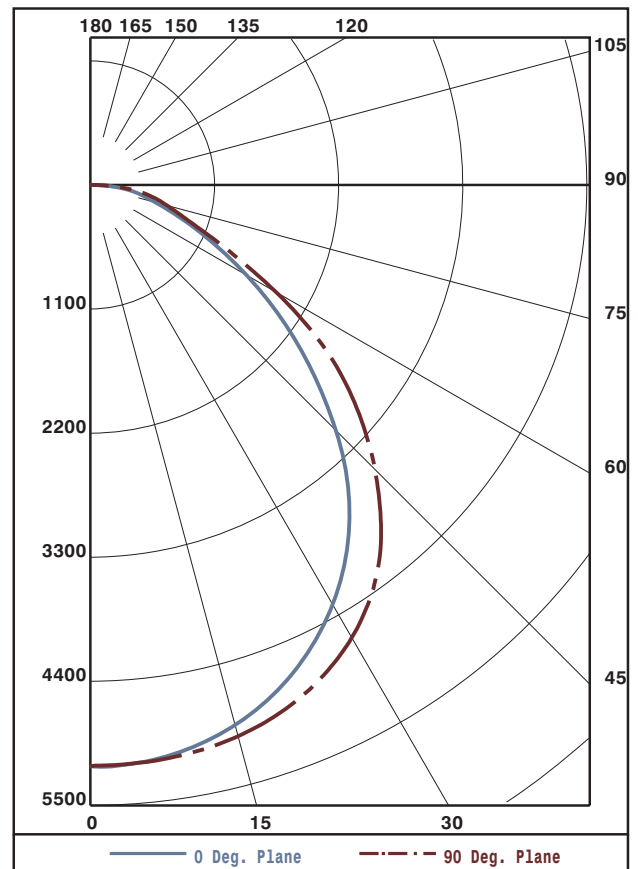
PLANE: 0-DEG 90-DEG

SPACING CRITERIA: 1.2 1.3

LUMINOUS LENGTH: 45.250 21.625

LUMINANCE IN CANDELA PER SQUARE METER

ANGLE IN DEG	AVERAGE 0-DEG	AVERAGE 45-DEG	AVERAGE 90-DEG
0	8162.	8162.	8162.
45	6886.	7461.	7985.
55	5711.	6465.	7033.
65	4411.	4385.	4917.
75	3647.	3262.	4302.
85	4289.	4234.	5343.



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	91	91	91	91	88	88	88	88	84	84	84	81	81	81	78	78	78	76
1	84	81	78	75	82	79	76	74	76	73	71	73	71	69	70	69	67	66
2	77	72	67	63	75	70	66	62	68	64	61	65	62	60	63	60	58	57
3	71	64	58	54	69	63	58	54	61	56	53	59	55	52	57	54	51	49
4	66	57	51	47	64	56	51	46	54	50	46	53	48	45	51	47	44	43
5	60	51	45	40	59	50	44	40	49	43	39	47	43	39	46	42	38	37
6	56	46	39	35	54	45	39	35	44	38	34	43	38	34	41	37	34	32
7	51	41	35	30	50	41	35	30	40	34	30	38	34	30	37	33	30	28
8	47	37	31	26	46	37	31	26	36	30	26	35	30	26	34	29	26	24
9	43	33	27	23	42	33	27	23	32	27	23	31	26	23	30	26	22	21
10	40	30	24	20	39	30	24	20	29	24	20	28	23	20	28	23	20	19

CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0	5153	5153	5153	5153	5153
5	5139	5138	5138	5137	5141
10	5071	5077	5092	5103	5113
15	4956	4971	5011	5039	5059
20	4790	4819	4888	4936	4967
25	4569	4614	4715	4784	4827
30	4293	4356	4484	4575	4633
35	3962	4031	4184	4293	4370
40	3559	3613	3800	3903	4008
45	3074	3122	3331	3428	3565
50	2562	2610	2840	2943	3084
55	2068	2088	2341	2409	2547
60	1595	1591	1761	1794	1900
65	1177	1146	1170	1248	1312
70	845	807	757	891	921
75	596	585	533	659	703
80	429	400	408	478	527
85	236	229	233	278	294
90	3	19	37	51	66

ZONAL LUMEN SUMMARY

0- 5	123.
5- 10	366.
10- 15	600.
15- 20	816.
20- 25	1006.
25- 30	1163.
30- 35	1275.
35- 40	1330.
40- 45	1312.
45- 50	1234.
50- 55	1109.
55- 60	928.
60- 65	703.
65- 70	506.
70- 75	370.
75- 80	279.
80- 85	192.
85- 90	74.

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.