



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: 13221

DATE: 08-07-2008

PREPARED FOR: EB FLUORESCENT COMPANY, INC.

CATALOG NUMBER: RDI 2X4 3/54

LUMINAIRE: FORMED WHITE ENAMEL STEEL HOUSING, FORMED WHITE ENAMEL STEEL PERFORATED LOWER DIFFUSER WITH TRANSLUCENT WHITE PLASTIC INSERT.

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

LAMP CATALOG NUMBER: PHILIPS F54T5/841/HO/ALTO

BALLAST: ONE WORKHORSE WH7-120-L

MOUNTING: RECESSED

TOTAL INPUT WATTS =160.0 AT 120.0 VOLTS

THE 0 DEGREE PLANE IS PARALLEL WITH THE LAMPS.

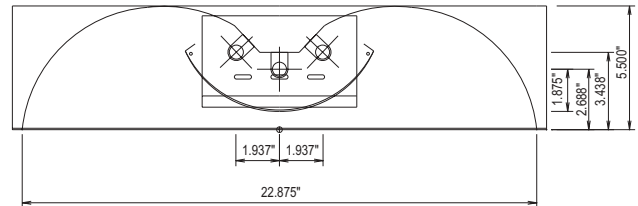
#13221

CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0	2857	2857	2857	2857	2857
5	2848	2845	2843	2845	2846
15	2729	2733	2748	2768	2776
25	2504	2522	2570	2620	2640
35	2183	2224	2316	2399	2429
45	1780	1855	1994	2100	2141
55	1307	1431	1607	1722	1747
65	796	969	1126	1080	1044
75	362	497	482	510	515
85	66	78	87	87	87
90	0	0	0	0	0

FLUX

271
777
1186
1447
1526
1403
1017
509
102



ZONAL LUMEN SUMMARY

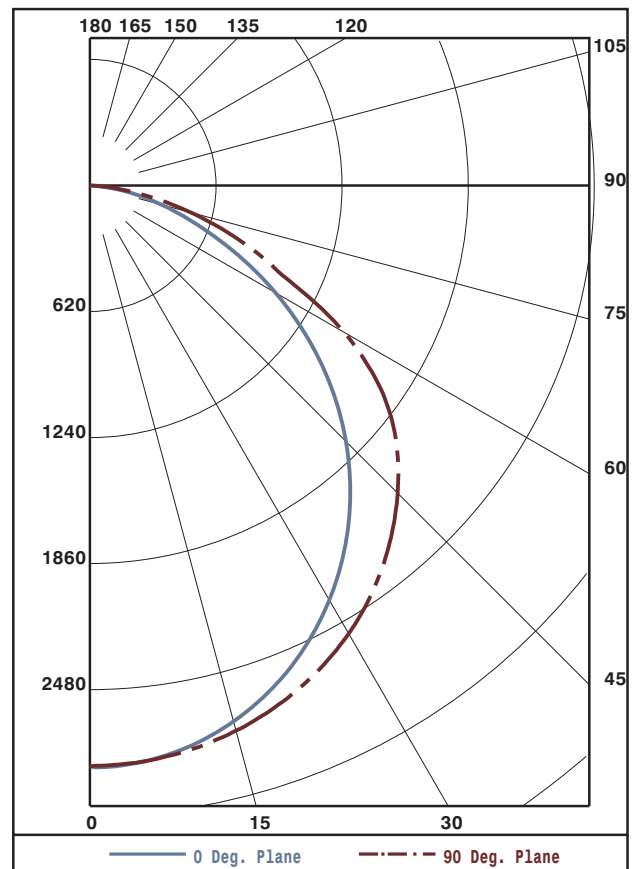
ZONE	LUMENS	%LAMP	%FIXT
0- 30	2234	16.9	27.1
0- 40	3682	27.9	44.7
0- 60	6611	50.1	80.2
0- 90	8239	62.4	100.0
90-180	0	0.0	0.0
0-180	8239	62.4	100.0

TOTAL LUMINAIRE EFFICIENCY: 62.4%
 TOTAL REFLECTANCE OF PAINT: 84.6%
 CIE TYPE: DIRECT

PLANE: 0-DEG 90-DEG
 SPACING CRITERIA: 1.2 1.3
 LUMINOUS LENGTH: 47.000 23.000

LUMINANCE IN CANDELA PER SQUARE METER

ANGLE IN DEG	AVERAGE 0-DEG	AVERAGE 45-DEG	AVERAGE 90-DEG
0	4096.	4096.	4096.
45	3609.	4043.	4341.
55	3267.	4017.	4367.
65	2700.	3820.	3542.
75	2005.	2670.	2853.
85	1086.	1431.	1431.



Approved By: MG



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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD
EFFECTIVE FLOOR CAVITY REFLECTANCE 0.20

Table with 19 columns (RC, RW, and 18 numerical columns) and 11 rows of data representing utilization coefficients.

CANDELA DISTRIBUTION

Table with 6 columns of numerical data representing candela distribution values.

ZONAL LUMEN SUMMARY

Table with 3 columns of numerical data representing zonal lumen summary values.

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.