



# 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: 13217

DATE: 08-04-2008

PREPARED FOR: EB FLUORESCENT COMPANY, INC.

CATALOG NUMBER: RDI 2X4 2/54

LUMINAIRE: FORMED WHITE ENAMEL STEEL HOUSING, FORMED WHITE ENAMEL STEEL REFLECTOR, FORMED WHITE ENAMEL PERFORATED STEEL SHIELD WITH TRANSLUCENT WHITE PLASTIC INSERT.

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

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

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

MOUNTING: RECESSED

TOTAL INPUT WATTS =111.8 AT 120.0 VOLTS

THE 0 DEGREE PLANE IS PARALLEL WITH THE LAMPS.

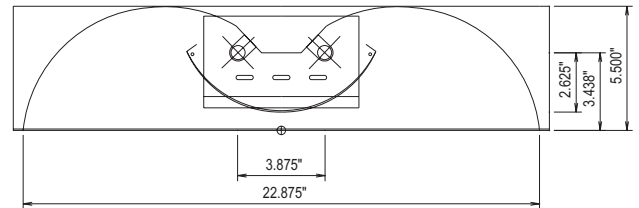
### CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0	1806	1806	1806	1806	1806
5	1801	1798	1798	1800	1801
15	1727	1730	1743	1757	1764
25	1586	1600	1638	1676	1692
35	1386	1417	1489	1553	1578
45	1135	1192	1298	1383	1416
55	841	933	1067	1164	1192
65	527	648	777	757	723
75	251	349	338	354	357
85	50	57	63	64	64
90	0	0	0	0	0

### FLUX

171
493
756
930
994
933
696
355
74

#13217



### ZONAL LUMEN SUMMARY

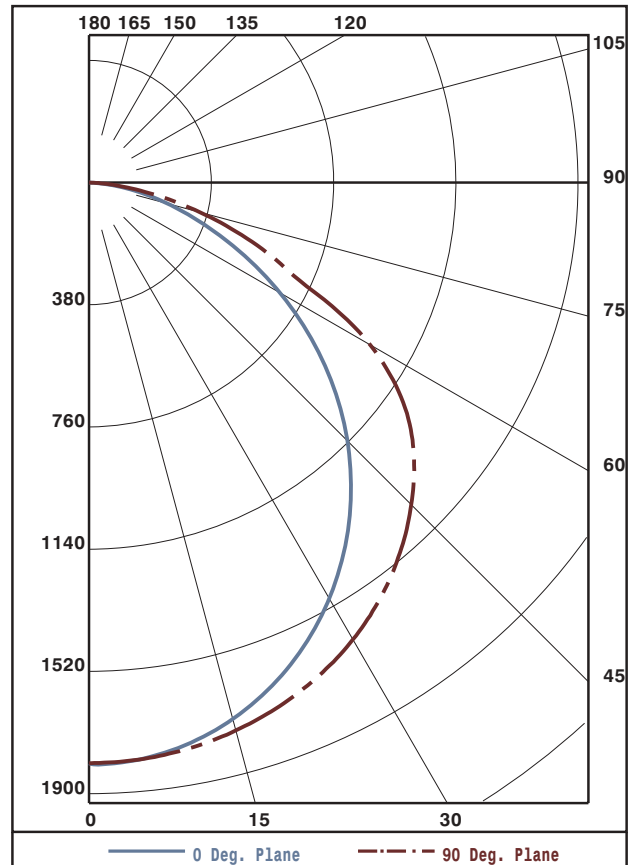
ZONE	LUMENS	%LAMP	%FIXT
0- 30	1420	16.1	26.3
0- 40	2351	26.7	43.5
0- 60	4278	48.6	79.2
0- 90	5404	61.4	100.0
90-180	0	0.0	0.0
0-180	5404	61.4	100.0

TOTAL LUMINAIRE EFFICIENCY: 61.4%  
 TOTAL REFLECTANCE OF PAINT: 84.6%  
 CIE TYPE: DIRECT

PLANE: 0-DEG 90-DEG  
 SPACING CRITERIA: 1.2 1.4  
 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	2589.	2589.	2589.
45	2301.	2632.	2871.
55	2102.	2667.	2980.
65	1788.	2636.	2453.
75	1390.	1872.	1978.
85	823.	1036.	1053.



Approved By: MG

THIS REPORT BASED ON LM-41 AND OTHER PERTINENT IESNA PROCEDURES.



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

Table with columns RC, RW, and rows for cavity heights 80, 70, 50, 30, 10, 0. Each row contains 18 numerical values representing utilization coefficients.

CANDELA DISTRIBUTION

Table with 6 columns of candela values for beam angles from 0.0 to 90.0 degrees.

ZONAL LUMEN SUMMARY

Table with 3 columns showing lumen values for various beam angle zones from 0-5 to 85-90 degrees.

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.