



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: 13215

DATE: 09-12-2008

PREPARED FOR: EB FLUORESCENT COMPANY, INC.

CATALOG NUMBER: RDI 2X2 2/24

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

LAMPS: TWO 24 WATT T5 HIGH OUTPUT LINEAR FLUORESCENT LAMPS RATED AT 1760 LUMENS EACH.

LAMP CATALOG NUMBER: SYLVANIA FP24/835/HO/ECO

BALLAST: ONE WORKHORSE WH3-120-L

MOUNTING: RECESSED

TOTAL INPUT WATTS = 41.3 AT 120.0 VOLTS

THE 0 DEGREE PLANE IS PARALLEL WITH THE LAMPS.

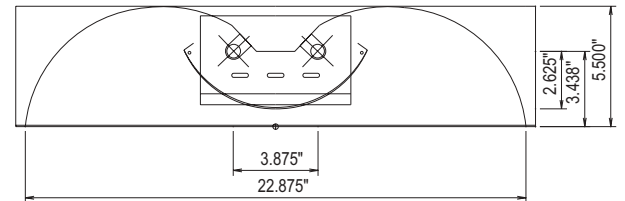
CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0	769	769	769	769	769
5	764	766	766	767	767
15	731	734	740	747	750
25	667	675	693	710	718
35	578	593	624	654	667
45	467	491	537	577	593
55	338	372	430	478	494
65	202	242	302	312	303
75	91	111	131	143	145
85	17	19	22	24	25
90	0	0	0	0	0

FLUX

73
209
320
390
412
378
275
134
27

#13215



ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LAMP	%FIXT
0- 30	602	17.1	27.1
0- 40	992	28.2	44.7
0- 60	1783	50.6	80.4
0- 90	2218	63.0	100.0
90-180	0	0.0	0.0
0-180	2218	63.0	100.0

TOTAL LUMINAIRE EFFICIENCY: 63.0%

TOTAL REFLECTANCE OF PAINT: 85.1%

CIE TYPE: DIRECT

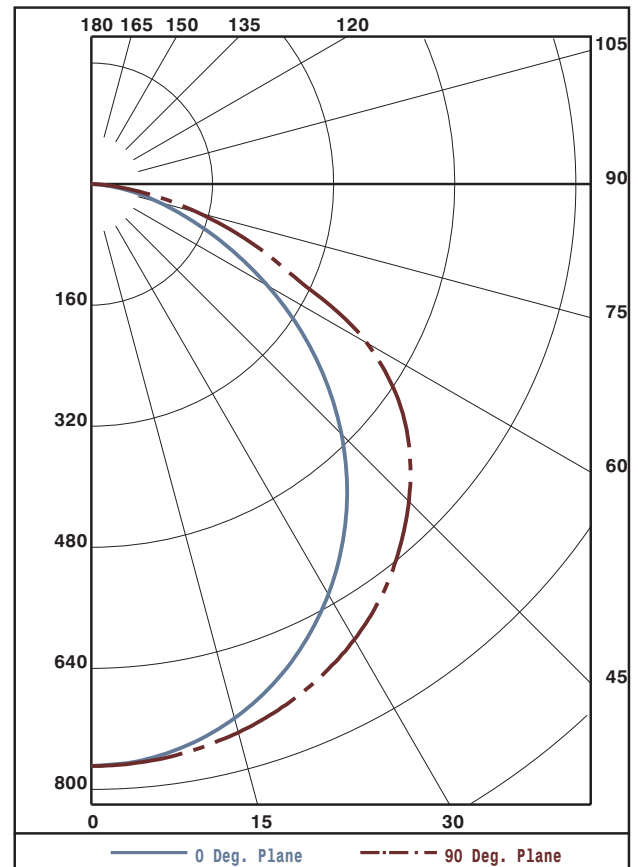
PLANE: 0-DEG 90-DEG

SPACING CRITERIA: 1.2 1.3

LUMINOUS LENGTH: 23.000 23.000

LUMINANCE IN CANDELA PER SQUARE METER

ANGLE IN DEG	AVERAGE 0-DEG	AVERAGE 45-DEG	AVERAGE 90-DEG
0	2253.	2253.	2253.
45	1935.	2225.	2457.
55	1727.	2196.	2523.
65	1400.	2094.	2101.
75	1030.	1483.	1641.
85	571.	740.	840.



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

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	75	75	75	75	73	73	73	73	70	70	70	67	67	67	64	64	64	63
1	69	66	64	62	68	65	63	61	62	61	59	60	58	57	58	57	55	54
2	63	59	55	51	62	57	54	51	55	52	50	53	51	48	51	49	47	46
3	58	52	47	43	57	51	47	43	49	45	42	47	44	41	46	43	41	39
4	53	46	41	37	52	45	40	37	44	39	36	42	39	36	41	38	35	34
5	49	41	35	31	47	40	35	31	39	34	31	37	33	30	36	33	30	29
6	45	36	31	27	43	36	31	27	35	30	26	34	29	26	33	29	26	25
7	41	33	27	23	40	32	27	23	31	26	23	30	26	23	29	26	23	21
8	38	29	24	20	37	29	24	20	28	23	20	27	23	20	26	23	20	18
9	35	26	21	17	34	26	21	17	25	20	17	24	20	17	24	20	17	16
10	32	24	19	15	31	23	18	15	23	18	15	22	18	15	22	18	15	14

CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0	769	769	769	769	769
5	764	766	766	767	767
10	751	754	756	760	761
15	731	734	740	747	750
20	703	708	719	731	736
25	667	675	693	710	718
30	626	636	661	685	695
35	578	593	624	654	667
40	525	544	583	618	632
45	467	491	537	577	593
50	404	433	486	531	549
55	338	372	430	478	494
60	269	308	370	410	420
65	202	242	302	312	303
70	142	176	214	217	222
75	91	111	131	143	145
80	49	55	69	75	76
85	17	19	22	24	25
90	0	0	0	0	0

ZONAL LUMEN SUMMARY

0- 5	18.
5- 10	55.
10- 15	89.
15- 20	120.
20- 25	148.
25- 30	171.
30- 35	189.
35- 40	201.
40- 45	207.
45- 50	205.
50- 55	197.
55- 60	181.
60- 65	156.
65- 70	119.
70- 75	83.
75- 80	50.
80- 85	22.
85- 90	5.

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.