



# 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: 13219

DATE: 09-12-2008

PREPARED FOR: EB FLUORESCENT COMPANY, INC.

CATALOG NUMBER: RDI 2X2 3/24

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

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

LAMP CATALOG NUMBER: PHILIPS FP24/835/HO/ALTO

BALLAST: ONE WORKHORSE WH5-120-L

MOUNTING: RECESSED

TOTAL INPUT WATTS = 65.6 AT 120.0 VOLTS

THE 0 DEGREE PLANE IS PARALLEL WITH THE LAMPS.

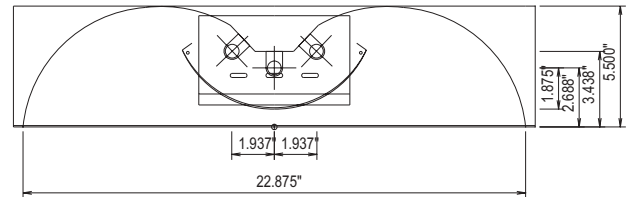
### CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0	1063	1063	1063	1063	1063
5	1057	1058	1059	1060	1060
15	1010	1014	1023	1032	1036
25	922	932	955	979	990
35	797	816	860	900	918
45	641	674	738	795	819
55	461	509	593	659	680
65	273	330	413	415	419
75	123	153	184	203	208
85	26	29	31	32	33
90	0	0	0	0	0

### FLUX

101
289
441
538
567
520
375
187
38

#13219



### ZONAL LUMEN SUMMARY

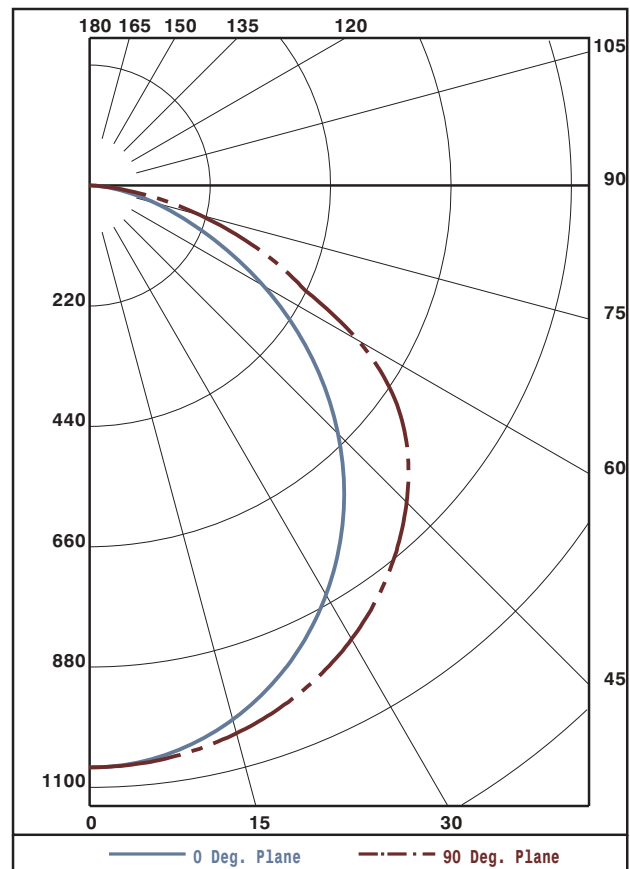
ZONE	LUMENS	%LAMP	%FIXT
0- 30	831	15.7	27.2
0- 40	1369	25.9	44.8
0- 60	2456	46.5	80.3
0- 90	3056	57.9	100.0
90-180	0	0.0	0.0
0-180	3056	57.9	100.0

TOTAL LUMINAIRE EFFICIENCY: 57.9%  
TOTAL REFLECTANCE OF PAINT: 85.4%

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	3114.	3114.	3114.
45	2656.	3058.	3393.
55	2355.	3029.	3473.
65	1893.	2863.	2905.
75	1392.	2083.	2355.
85	874.	1042.	1109.



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
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	
0	69	69	69	69	67	67	67	67	64	64	64	62	62	62	59	59	59	58
1	64	61	59	57	62	60	58	56	57	56	54	55	54	52	53	52	51	50
2	58	54	50	47	57	53	49	47	51	48	45	49	46	44	47	45	43	42
3	53	48	43	40	52	47	43	39	45	42	39	44	41	38	42	40	37	36
4	49	42	38	34	48	42	37	34	40	36	33	39	35	33	38	35	32	31
5	45	37	32	29	43	37	32	28	36	31	28	34	31	28	33	30	28	26
6	41	33	28	25	40	33	28	25	32	28	24	31	27	24	30	27	24	23
7	38	30	25	21	37	30	25	21	29	24	21	28	24	21	27	24	21	20
8	35	27	22	18	34	26	22	18	26	21	18	25	21	18	24	21	18	17
9	32	24	19	16	31	24	19	16	23	19	16	22	18	16	22	18	16	15
10	30	22	17	14	29	22	17	14	21	17	14	20	17	14	20	16	14	13

CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0	1063	1063	1063	1063	1063
5	1057	1058	1059	1060	1060
10	1039	1042	1045	1049	1051
15	1010	1014	1023	1032	1036
20	971	978	993	1009	1016
25	922	932	955	979	990
30	864	878	911	943	957
35	797	816	860	900	918
40	723	748	802	851	872
45	641	674	738	795	819
50	554	594	669	733	758
55	461	509	593	659	680
60	366	421	510	559	566
65	273	330	413	415	419
70	190	240	287	306	314
75	123	153	184	203	208
80	67	77	98	108	110
85	26	29	31	32	33
90	0	0	0	0	0

ZONAL LUMEN SUMMARY

0- 5	25.
5- 10	75.
10- 15	123.
15- 20	166.
20- 25	205.
25- 30	236.
30- 35	261.
35- 40	277.
40- 45	284.
45- 50	283.
50- 55	271.
55- 60	249.
60- 65	211.
65- 70	164.
70- 75	116.
75- 80	71.
80- 85	32.
85- 90	7.

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.