



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: 04704

DATE: 6-28-1999

PREPARED FOR: EB FLUORESCENT CO., INC.

CATALOG NUMBER: GR2X4 432

LUMINAIRE: FORMED STEEL 2X4 HOUSING, FORMED WHITE ENAMEL REFLECTOR,
CLEAR ACRYLIC PRISMATIC LENS.

BALLAST: ONE ADVANCE REL-4P32-RH-TP

LAMPS: FOUR PHILIPS F32T8/TL841 RATED AT 2850 LUMENS EACH.

MOUNTING: RECESSED

LUMEN TO CANDELA RATIO USED = 9.18

TOTAL INPUT WATTS =111.0 AT 120.0 VOLTS

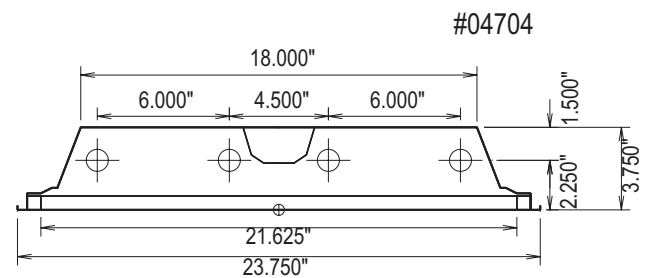
THE 0 DEGREE PLANE IS PARALLEL WITH THE LAMPS.

CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0	3627	3627	3627	3627	3627
5	3599	3617	3613	3625	3619
15	3467	3498	3515	3547	3550
25	3182	3231	3293	3346	3358
35	2698	2760	2847	2925	2950
45	1967	2035	2136	2236	2276
55	1236	1291	1373	1460	1475
65	701	644	594	678	758
75	454	353	312	366	469
85	148	144	128	153	171
90	4	13	13	23	25

FLUX

344
994
1513
1771
1646
1222
671
393
158



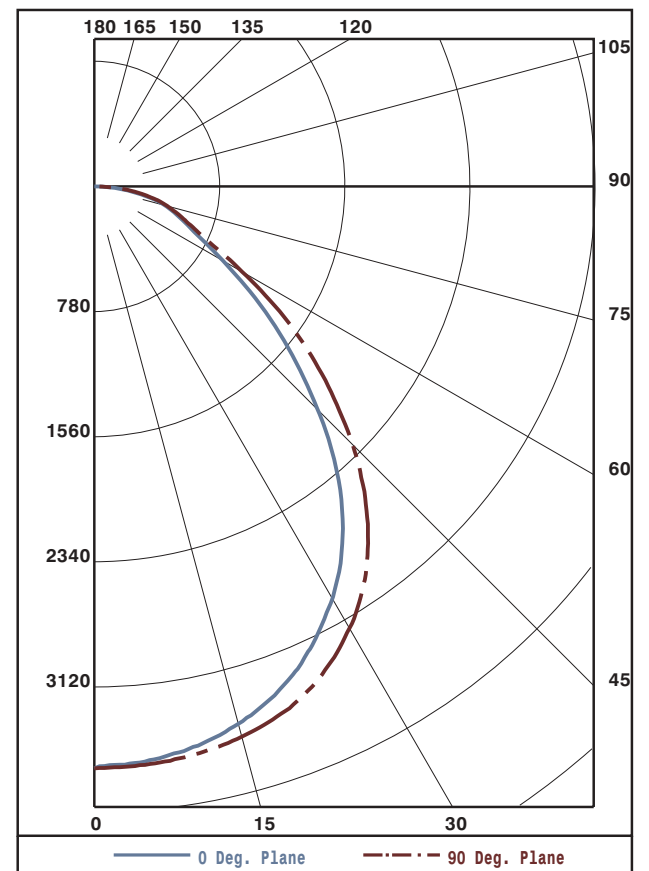
ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LAMP	%FIXT
0- 30	2852	25.0	32.7
0- 40	4623	40.6	53.1
0- 60	7490	65.7	86.0
0- 90	8712	76.4	100.0
90-180	0	0.0	0.0
0-180	8712	76.4	100.0

TOTAL LUMINAIRE EFFICIENCY: 76.4%
 TOTAL REFLECTANCE OF PAINT: 87.9%
 CIE TYPE: DIRECT
 PLANE: 0-DEG 90-DEG
 SPACING CRITERIA: 1.2 1.3
 LUMINOUS LENGTH: 45.375 21.625

LUMINANCE IN CANDELA PER SQUARE METER

ANGLE IN DEG	AVERAGE 0-DEG	AVERAGE 45-DEG	AVERAGE 90-DEG
0	5729.	5729.	5729.
45	4394.	4771.	5084.
55	3404.	3781.	4062.
65	2620.	2220.	2833.
75	2771.	1904.	2862.
85	2682.	2320.	3099.



Approved By: _____



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

Table with 17 columns (RC, RW, 80, 70, 50, 30, 10, 0) and 11 rows of utilization coefficients.

CANDELA DISTRIBUTION

Table with 6 columns showing candela values for various angles from 0 to 90 degrees.

ZONAL LUMEN SUMMARY

Table with 3 columns showing lumen summary for various 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.