



LTL NUMBER: 01616

DATE: 5-19-1994

PREPARED FOR: MERCURY LIGHTING PROD.

CATALOG NUMBER: M106-432-OCT-A-ELB-120V

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

BALLAST: ONE MAGNETEK B432I120RH.

LAMPS: FOUR GE F32T8-SP41 RATED AT 2900 LUMENS EACH.

MOUNTING: SURFACE

LUMEN TO CANDELA RATIO USED = 9.17

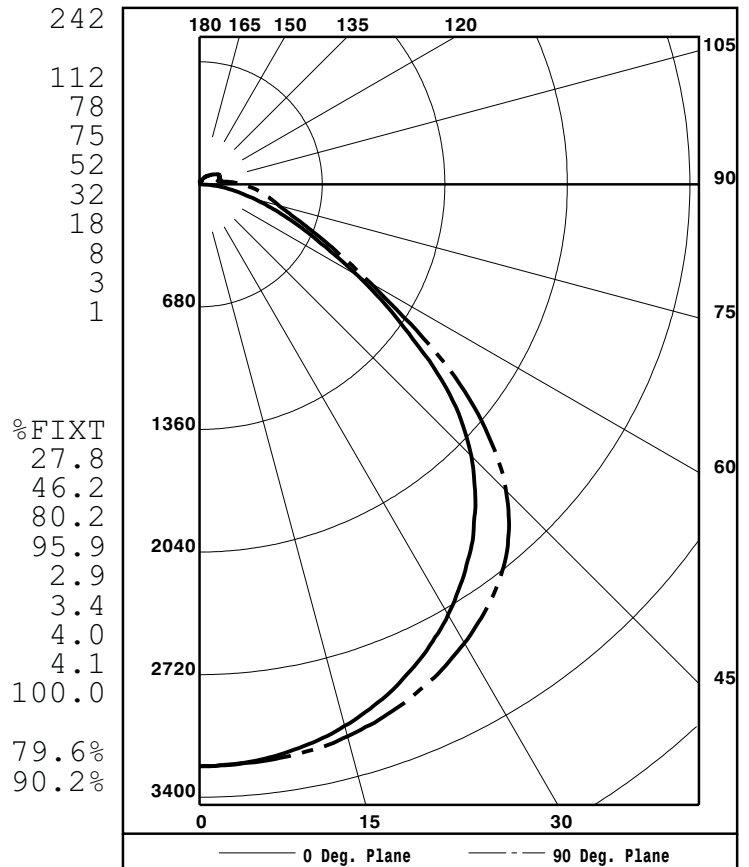
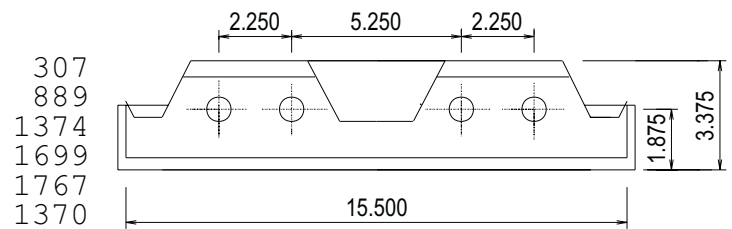
TOTAL INPUT WATTS = 105.7 AT 120.0 VOLTS

THE 0 DEGREE PLANE IS PARALLEL WITH THE LAMPS.

CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0	3229	3229	3229	3229	3229
5	3215	3215	3224	3225	3221
15	3110	3122	3149	3165	3170
25	2902	2928	2985	3021	3037
35	2580	2636	2728	2793	2816
45	2134	2209	2330	2393	2403
55	1386	1496	1590	1587	1562
65	701	742	774	762	789
75	316	344	459	472	456
85	83	136	247	316	311
90	3	41	156	219	228
95	1	43	133	161	162
105	3	41	85	111	118
115	3	40	89	113	120
125	4	29	66	88	95
135	5	20	46	62	67
145	6	15	29	41	46
155	8	12	18	24	27
165	9	11	13	14	14
175	10	10	10	9	10
180	10	10	10	10	10

FLUX #01616



ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LAMP	%FIXT
0- 30	2569	22.1	27.8
0- 40	4269	36.8	46.2
0- 60	7405	63.8	80.2
0- 90	8854	76.3	95.9
90-120	265	2.3	2.9
90-130	317	2.7	3.4
90-150	368	3.2	4.0
90-180	380	3.3	4.1
0-180	9234	79.6	100.0

TOTAL LUMINAIRE EFFICIENCY: 79.6%
 TOTAL REFLECTANCE OF PAINT: 90.2%
 CIE TYPE: DIRECT
 PLANE: 0-DEG 90-DEG
 SPACING CRITERIA: 1.3 1.4
 SHIELDING ANGLES: 90 90

TESTED BY SEAN KANE
 CHECKED BY JAY LANGTHORN



LUMINAIRE TESTING LABORATORY, INC.



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

Table with 19 columns (RC, RW, 80, 70, 50, 30, 10, 0) and 11 rows (0-10) showing utilization coefficients.

PLANE: 0-DEG 90-DEG
LUMINOUS LENGTH: 48.000 15.500
HEIGHT OF SIDE: 1.625 1.625

Table with 4 columns (ANGLE IN DEG, AVERAGE 0-DEG, AVERAGE 45-DEG, AVERAGE 90-DEG) and 6 rows (0, 45, 55, 65, 75, 85) showing luminance values.



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CANDELA DISTRIBUTION

Table with 6 columns of candela values for various angles from 0 to 180 degrees.

ZONAL LUMEN SUMMARY

Table with 2 columns: Zonal angle ranges and corresponding lumen 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.



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VISUAL COMFORT PROBABILITY TABLE

RATED LUMENS PER LAMP 2900.

100. FC. ROOM		REFLECTANCES 80/50/20 LUMINAIRES 0 DEG PLANE				LUMINAIRES 90 DEG PLANE			
W	L	8.5	10.0	13.0	16.0	8.5	10.0	13.0	16.0
20	20	54	57	63	71	54	57	63	70
20	30	50	52	54	60	46	50	55	60
20	40	48	49	51	54	42	46	50	54
20	60	46	47	48	51	37	41	46	50
30	20	55	58	62	69	55	58	62	68
30	30	50	52	54	58	47	50	54	58
30	40	47	49	50	52	41	45	49	52
30	60	45	47	47	48	37	40	44	47
30	80	45	46	45	47	34	38	41	44
40	20	57	60	64	69	57	60	64	68
40	30	51	53	55	58	48	52	55	58
40	40	47	49	50	52	42	46	49	52
40	60	45	47	47	48	37	41	43	47
40	80	45	46	45	46	34	38	40	43
40	100	45	46	45	46	33	36	38	41
60	30	51	54	55	59	50	53	56	59
60	40	48	49	50	52	44	47	50	52
60	60	45	46	46	48	38	41	43	47
60	80	44	45	44	46	35	38	39	43
60	100	44	45	44	45	33	35	37	40
100	40	50	51	52	55	48	51	52	55
100	60	46	48	48	50	41	44	46	49
100	80	45	46	45	47	37	40	41	44
100	100	45	45	44	45	35	37	38	41