



LUMINAIRE TESTING LABORATORY, INC.



SUSTAINING
MEMBER

905 Harrison Street · Allentown, PA 18103 · (610) 770-1044 · Fax (610) 770-8912 · www.LuminaireTesting.com

LTL NUMBER: 01623

DATE: 5-24-1994

PREPARED FOR: MERCURY LIGHTING PROD.

CATALOG NUMBER: MIE6-132-OCT-ELB-120V/MIE6-132-OCT-P-ELB-120V-20GA

LUMINAIRE: FORMED STEEL HOUSING, WHITE ENAMEL REFLECTOR, OPEN BOTTOM.

BALLAST: ONE MOTOROLA M1-IN-T8-120.

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

MOUNTING: SURFACE

LUMEN TO CANDELA RATIO USED = 9.17

TOTAL INPUT WATTS = 34.7 AT 120.0 VOLTS

THE 0 DEGREE PLANE IS PARALLEL WITH THE LAMPS.

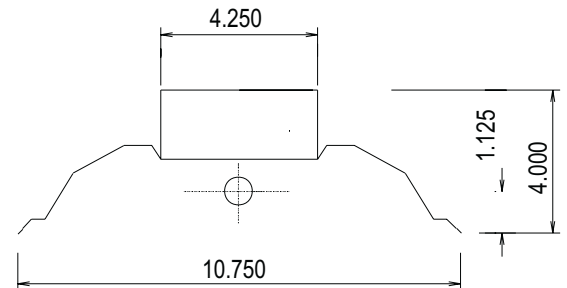
#01623

CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0	705	705	705	705	705
5	702	704	707	705	707
15	678	687	702	710	715
25	631	652	678	689	698
35	564	599	634	667	681
45	477	522	582	634	658
55	373	434	527	612	644
65	255	339	482	568	590
75	134	264	347	311	294
85	28	86	45	29	27
90	4	28	14	3	1
95	0	14	9	1	0
105	0	2	3	0	0
115	0	0	1	0	0
125	0	0	0	0	0
135	0	0	0	0	0
145	0	0	0	0	0
155	0	0	0	0	0
165	0	0	0	0	0
175	0	0	0	0	0
180	0	0	0	0	0

FLUX

67
198
310
395
446
467
447
295
59
7
1
0
0
0
0
0
0
0
0
0
0
0
0
0



ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LAMP	%FIXT
0- 30	575	19.8	21.4
0- 40	971	33.5	36.0
0- 60	1883	64.9	69.9
0- 90	2685	92.6	99.7
90-120	8	0.3	0.3
90-130	8	0.3	0.3
90-150	8	0.3	0.3
90-180	8	0.3	0.3
0-180	2693	92.9	100.0

TOTAL LUMINAIRE EFFICIENCY: 92.9%

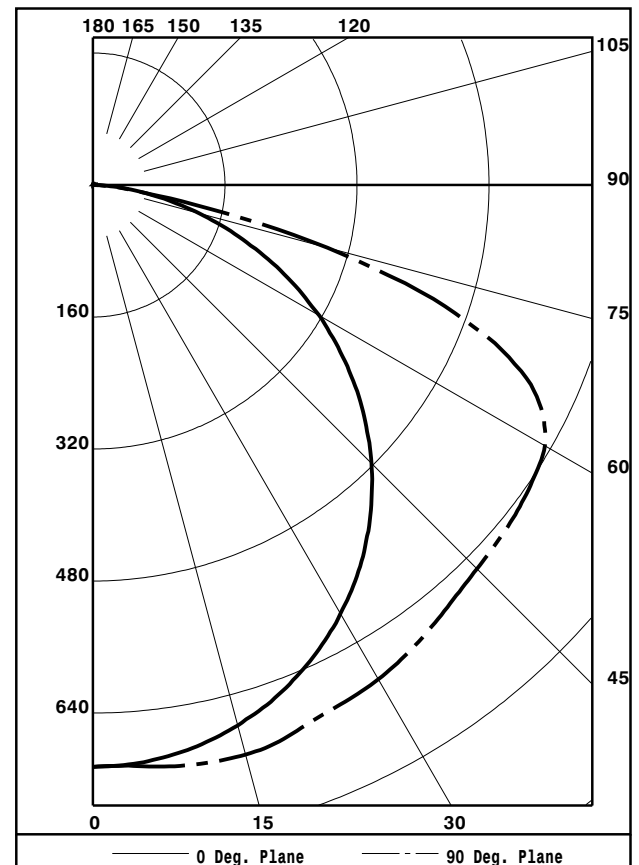
TOTAL REFLECTANCE OF PAINT: 90.7%

CIE TYPE: DIRECT

PLANE: 0-DEG 90-DEG

SPACING CRITERIA: 1.3 1.5

SHIELDING ANGLES: 0 9



TESTED BY JOHN HAYES

CHECKED BY JAY LANGTHORN

THIS REPORT BASED ON LM-41 AND OTHER PERTINENT IES 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	110	110	110	110	108	108	108	108	103	103	103	99	99	99	94	94	94	93
1	100	96	92	88	98	94	90	86	90	87	84	86	83	81	83	81	79	77
2	91	83	76	70	88	81	75	69	77	72	68	74	70	66	71	68	65	62
3	82	72	64	58	80	70	63	57	68	61	56	65	60	55	63	58	54	52
4	75	63	55	48	73	62	54	48	59	52	47	57	51	46	55	50	46	43
5	68	55	46	40	66	54	46	39	52	44	39	50	43	38	48	42	38	36
6	62	49	40	34	60	48	40	33	46	39	33	44	38	33	43	37	32	30
7	57	44	35	29	55	43	35	29	41	34	28	40	33	28	38	32	28	26
8	52	39	30	25	51	38	30	25	37	30	24	36	29	24	34	28	24	22
9	48	35	27	21	47	34	26	21	33	26	21	32	25	21	31	25	21	19
10	45	32	24	18	43	31	23	18	30	23	18	29	23	18	28	22	18	16

PLANE: 0-DEG 90-DEG
LUMINOUS LENGTH: 48.000 10.750

LUMINANCE IN CANDELA PER SQUARE METER

ANGLE	AVERAGE	AVERAGE	AVERAGE
IN DEG	0-DEG	45-DEG	90-DEG
0	2118.	2118.	2118.
45	2026.	2472.	2795.
55	1953.	2760.	3372.
65	1812.	3426.	4193.
75	1555.	4027.	3412.
85	965.	1551.	931.



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10	693	697	706	710	713
15	678	687	702	710	715
20	657	672	694	704	708
25	631	652	678	689	698
30	600	628	655	680	692
35	564	599	634	667	681
40	523	565	610	651	668
45	477	522	582	634	658
50	427	478	553	623	652
55	373	434	527	612	644
60	317	388	505	599	633
65	255	339	482	568	590
70	193	298	445	481	479
75	134	264	347	311	294
80	77	206	177	112	95
85	28	86	45	29	27
90	4	28	14	3	1
95	0	14	9	1	0
100	0	5	5	0	0
105	0	2	3	0	0
110	0	1	1	0	0
115	0	0	1	0	0
120	0	0	0	0	0
125	0	0	0	0	0
130	0	0	0	0	0
135	0	0	0	0	0
140	0	0	0	0	0
145	0	0	0	0	0
150	0	0	0	0	0
155	0	0	0	0	0
160	0	0	0	0	0
165	0	0	0	0	0
170	0	0	0	0	0
175	0	0	0	0	0
180	0	0	0	0	0

ZONAL LUMEN SUMMARY

0- 5	17.
5- 10	50.
10- 15	83.
15- 20	114.
20- 25	143.
25- 30	168.
30- 35	189.
35- 40	206.
40- 45	219.
45- 50	227.
50- 55	232.
55- 60	234.
60- 65	231.
65- 70	216.
70- 75	180.
75- 80	116.
80- 85	47.
85- 90	13.
90- 95	4.
95-100	2.
100-105	1.
105-110	0.
110-115	0.
115-120	0.
120-125	0.
125-130	0.
130-135	0.
135-140	0.
140-145	0.
145-150	0.
150-155	0.
155-160	0.
160-165	0.
165-170	0.
170-175	0.
175-180	0.

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. REFLECTANCES 80/50/20		LUMINAIRE 0 DEG PLANE				LUMINAIRE 90 DEG PLANE			
ROOM									
W	L	8.5	10.0	13.0	16.0	8.5	10.0	13.0	16.0
20	20	54	64	79	90	43	52	69	85
20	30	47	55	66	78	40	42	50	65
20	40	45	50	60	69	42	41	42	51
20	60	44	49	55	63	44	43	41	44
30	20	51	60	74	86	45	53	68	83
30	30	44	50	61	73	41	43	48	63
30	40	41	45	54	63	43	41	41	48
30	60	41	44	49	56	44	43	40	42
30	80	41	44	47	53	46	45	41	42
40	20	53	59	71	83	47	54	67	82
40	30	45	50	58	70	43	44	49	62
40	40	42	45	50	60	44	43	41	48
40	60	41	42	45	53	46	44	40	42
40	80	41	42	43	49	47	46	41	42
40	100	42	43	43	48	49	47	43	43
60	30	48	51	56	66	45	46	49	62
60	40	44	46	48	57	46	44	42	48
60	60	42	42	43	49	47	45	40	41
60	80	41	42	41	46	48	46	41	41
60	100	42	42	41	44	50	48	43	42
100	40	50	51	51	57	50	48	45	50
100	60	47	47	45	49	50	48	43	44
100	80	46	45	42	45	51	49	44	43
100	100	45	44	41	43	52	50	45	43