



LUMINAIRE TESTING LABORATORY, INC.



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

LTL NUMBER: 01622

DATE: 5-20-1994

PREPARED FOR: MERCURY LIGHTING PROD.

CATALOG NUMBER: MIE6-232-OCT-ELB-120V/MIE6-232-OCT-P-ELB-120V-20GA

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

BALLAST: ONE MOTOROLA M2-IN-T8-120.

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

MOUNTING: SURFACE

LUMEN TO CANDELA RATIO USED = 9.17

TOTAL INPUT WATTS = 60.0 AT 120.0 VOLTS

THE 0 DEGREE PLANE IS PARALLEL WITH THE LAMPS.

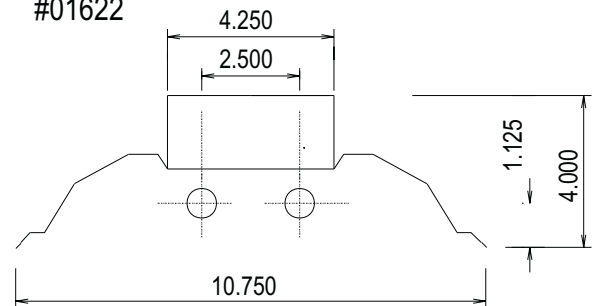
CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0	1458	1458	1458	1458	1458
5	1449	1455	1461	1457	1460
15	1399	1414	1436	1452	1463
25	1303	1333	1389	1421	1440
35	1165	1219	1302	1379	1413
45	986	1068	1204	1321	1365
55	776	886	1083	1225	1278
65	539	707	929	1008	1000
75	286	498	525	465	447
85	63	124	63	38	35
90	9	31	13	3	1
95	1	16	6	1	0
105	0	3	2	0	0
115	0	0	0	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

#01622

139
406
637
814
922
945
838
489
92



ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LAMP	%FIXT
0- 30	1182	20.4	22.3
0- 40	1995	34.4	37.7
0- 60	3862	66.6	73.0
0- 90	5281	91.0	99.8
90-120	8	0.1	0.2
90-130	8	0.1	0.2
90-150	8	0.1	0.2
90-180	8	0.1	0.2
0-180	5289	91.2	100.0

TOTAL LUMINAIRE EFFICIENCY:

91.2%

TOTAL REFLECTANCE OF PAINT:

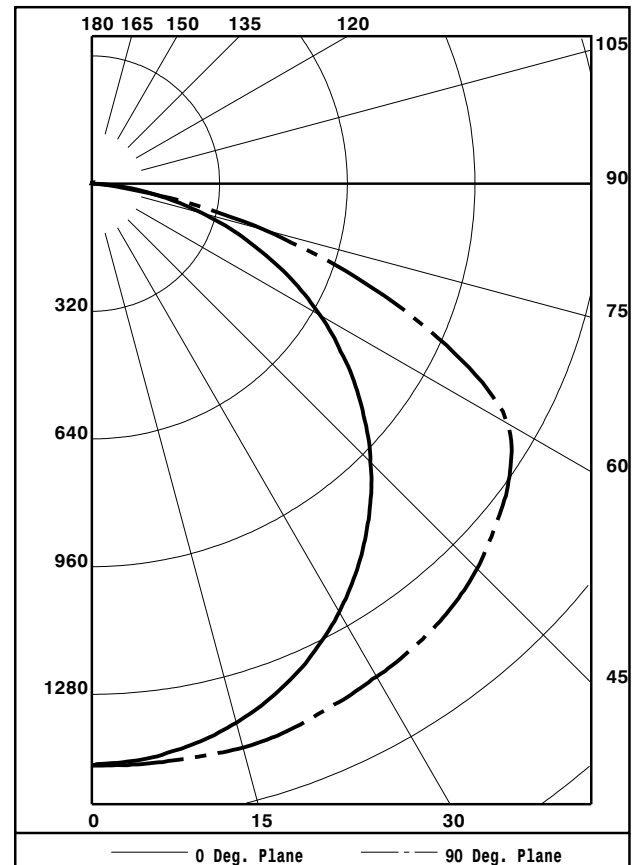
91.0%

CIE TYPE: DIRECT

PLANE: 0-DEG 90-DEG

SPACING CRITERIA: 1.3 1.5

SHIELDING ANGLES: 0 10



TESTED BY JOHN HAYES

CHECKED BY JAY LANGTHORN

THIS REPORT BASED ON LM-41 AND OTHER PERTINENT IES PROCEDURES.



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SUSTAINING
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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	109	109	109	109	106	106	106	106	101	101	101	97	97	97	93	93	93	91
1	99	95	91	87	97	93	89	86	89	86	83	85	83	81	82	80	78	76
2	90	82	76	71	87	80	75	70	77	72	68	74	70	66	71	68	65	63
3	82	72	64	58	79	71	63	58	68	62	57	65	60	56	63	58	55	53
4	74	63	55	49	72	62	54	48	60	53	48	58	52	47	56	51	46	44
5	67	55	47	40	65	54	46	40	52	45	40	50	44	39	49	43	39	37
6	62	49	40	34	60	48	40	34	46	39	34	45	38	33	43	38	33	31
7	57	44	35	29	55	43	35	29	42	34	29	40	34	29	39	33	29	27
8	52	39	31	25	51	38	31	25	37	30	25	36	29	25	35	29	25	23
9	48	35	27	22	46	34	27	21	33	26	21	32	26	21	31	25	21	19
10	44	32	24	19	43	31	24	19	30	23	19	29	23	19	28	23	18	17

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	4379.	4379.	4379.
45	4188.	5114.	5798.
55	4064.	5671.	6693.
65	3831.	6603.	7107.
75	3319.	6093.	5188.
85	2171.	2171.	1206.



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15	1399	1414	1436	1452	1463
20	1357	1377	1417	1443	1455
25	1303	1333	1389	1421	1440
30	1240	1280	1350	1401	1427
35	1165	1219	1302	1379	1413
40	1082	1150	1254	1354	1394
45	986	1068	1204	1321	1365
50	886	979	1149	1275	1324
55	776	886	1083	1225	1278
60	661	796	1010	1158	1201
65	539	707	929	1008	1000
70	412	608	778	748	727
75	286	498	525	465	447
80	167	326	268	200	173
85	63	124	63	38	35
90	9	31	13	3	1
95	1	16	6	1	0
100	1	9	4	1	0
105	0	3	2	0	0
110	0	1	1	0	0
115	0	0	0	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	35.
5- 10	104.
10- 15	171.
15- 20	235.
20- 25	293.
25- 30	344.
30- 35	389.
35- 40	425.
40- 45	453.
45- 50	469.
50- 55	475.
55- 60	470.
60- 65	448.
65- 70	390.
70- 75	299.
75- 80	190.
80- 85	75.
85- 90	16.
90- 95	4.
95-100	3.
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	38	47	63	78	32	39	53	72
20	30	32	38	48	62	29	31	36	49
20	40	30	34	41	50	31	30	31	37
20	60	30	33	37	43	33	32	30	32
30	20	37	44	57	73	34	39	51	68
30	30	31	35	43	56	31	32	35	47
30	40	29	31	36	45	32	30	30	35
30	60	28	30	32	38	33	32	28	30
30	80	29	30	31	36	36	34	30	30
40	20	39	45	55	69	36	41	51	66
40	30	33	36	41	52	32	33	35	46
40	40	30	31	34	42	33	32	30	35
40	60	29	30	30	35	35	33	29	30
40	80	29	30	29	33	37	35	30	30
40	100	30	30	29	32	39	37	32	31
60	30	35	37	41	50	34	35	36	46
60	40	32	33	34	40	35	33	31	35
60	60	31	30	29	34	36	34	29	30
60	80	30	30	28	31	38	36	30	30
60	100	31	30	28	30	40	38	32	31
100	40	38	38	37	42	39	37	34	37
100	60	36	35	32	35	40	37	31	32
100	80	35	34	30	32	42	39	32	32
100	100	35	33	30	31	43	40	34	32