



LUMINAIRE TESTING LABORATORY, INC.



SUSTAINING
MEMBER

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

LTL NUMBER: 02008

DATE: 2-17-1995

PREPARED FOR: MERCURY LIGHTING PRODUCTS COMPANY INC.

CATALOG NUMBER: 35E-232-OCT-9A-SRT-ELB-120V

LUMINAIRE: FORMED STEEL HOUSING, SPECULAR ALUMINUM REFLECTOR, CLEAR PRISMATIC ACRYLIC LENS.

LAMPS: TWO F32T8/31K RATED 2900 LUMENS EACH.

BALLAST: MAGNETEK B232I120RH

MOUNTING: RECESS

LUMEN TO CANDELA RATIO USED = 9.17

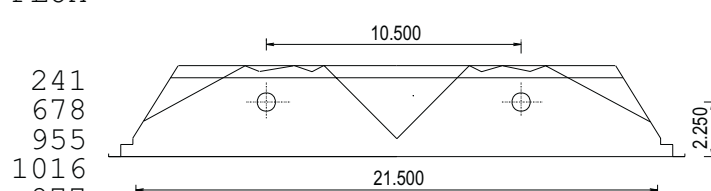
TOTAL INPUT WATTS = 58.2 AT 120.0 VOLTS

THE 0 DEGREE PLANE IS PARALLEL WITH THE LAMPS.

CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0	2549	2549	2549	2549	2549
5	2531	2537	2538	2541	2534
15	2393	2415	2416	2405	2392
25	2110	2140	2098	2018	1990
35	1689	1708	1618	1561	1542
45	1185	1181	1126	1097	1092
55	724	705	689	677	671
65	406	365	323	352	386
75	261	204	177	195	235
85	100	89	74	81	90
90	18	17	16	22	23

FLUX #02008



ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LAMP	%FIXT
0- 30	1874	32.3	37.1
0- 40	2889	49.8	57.1
0- 60	4386	75.6	86.7
0- 90	5056	87.2	100.0
90-180	0	0.0	0.0
0-180	5056	87.2	100.0

TOTAL LUMINAIRE EFFICIENCY:

87.2%

CIE TYPE: DIRECT

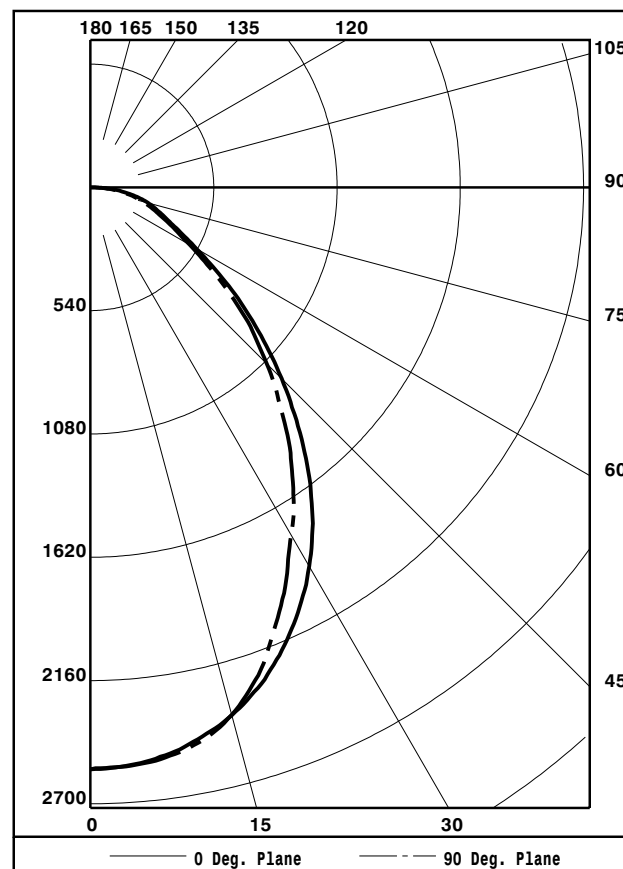
PLANE: 0-DEG 90-DEG

SPACING CRITERIA: 1.1 1.1

LUMINOUS LENGTH: 45.250 21.500

LUMINANCE IN CANDELA PER SQUARE METER

ANGLE	AVERAGE	AVERAGE	AVERAGE
IN DEG	0-DEG	45-DEG	90-DEG
0	4061.	4061.	4061.
45	2670.	2537.	2460.
55	2011.	1914.	1864.
65	1530.	1218.	1455.
75	1607.	1089.	1446.
85	1828.	1353.	1645.



TESTED BY JOHN HAYES

CHECKED BY JAY LANGTHORN

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



LUMINAIRE TESTING LABORATORY, INC.



SUSTAINING
MEMBER

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

LTL NUMBER: 02008

DATE: 2-17-1995

PREPARED FOR: MERCURY LIGHTING PRODUCTS COMPANY INC.

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	104	104	104	104	101	101	101	101	97	97	97	93	93	93	89	89	89	87
1	97	93	90	87	94	91	88	86	87	85	83	84	82	81	81	80	78	76
2	89	83	79	74	87	82	77	74	79	75	72	76	73	70	74	71	69	67
3	83	75	69	65	81	74	68	64	72	67	63	69	65	62	67	64	61	59
4	77	68	61	56	75	67	61	56	65	60	55	63	58	55	61	57	54	52
5	71	61	54	49	69	60	54	49	59	53	48	57	52	48	55	51	48	46
6	66	56	49	44	65	55	48	44	53	48	43	52	47	43	51	46	42	41
7	61	51	44	39	60	50	43	39	49	43	38	47	42	38	46	42	38	36
8	57	46	39	34	55	45	39	34	44	38	34	43	38	34	42	37	34	32
9	53	41	35	30	51	41	34	30	40	34	30	39	34	30	38	33	30	28
10	49	38	31	27	48	37	31	27	37	31	27	36	30	27	35	30	27	25

CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0	2549	2549	2549	2549	2549
5	2531	2537	2538	2541	2534
10	2478	2492	2497	2498	2493
15	2393	2415	2416	2405	2392
20	2270	2300	2285	2245	2218
25	2110	2140	2098	2018	1990
30	1916	1940	1866	1788	1759
35	1689	1708	1618	1561	1542
40	1440	1449	1366	1324	1314
45	1185	1181	1126	1097	1092
50	943	931	903	885	884
55	724	705	689	677	671
60	536	516	486	489	502
65	406	365	323	352	386
70	325	265	225	258	303
75	261	204	177	195	235
80	183	151	131	142	164
85	100	89	74	81	90
90	18	17	16	22	23

ZONAL LUMEN SUMMARY

0- 5	61.
5- 10	180.
10- 15	291.
15- 20	386.
20- 25	456.
25- 30	498.
30- 35	514.
35- 40	502.
40- 45	465.
45- 50	412.
50- 55	347.
55- 60	273.
60- 65	207.
65- 70	155.
70- 75	122.
75- 80	95.
80- 85	64.
85- 90	27.

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.



LUMINAIRE TESTING LABORATORY, INC.



SUSTAINING
MEMBER

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

LTL NUMBER: 02008

DATE: 2-17-1995

PREPARED FOR: MERCURY LIGHTING PRODUCTS COMPANY INC.

VISUAL COMFORT PROBABILITY TABLE

RATED LUMENS PER LAMP 2900.

100. FC. REFLECTANCES 80/50/20

ROOM 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	74	77	83	88	75	78	84	89
20	30	66	70	75	80	68	71	77	81
20	40	62	65	70	74	64	67	72	76
20	60	57	61	65	69	60	63	67	71
30	20	75	78	83	87	75	79	83	87
30	30	67	71	75	79	68	72	76	80
30	40	62	65	69	73	64	67	70	74
30	60	57	60	63	67	59	62	65	69
30	80	54	57	59	63	57	60	62	65
40	20	76	79	83	87	76	80	84	87
40	30	68	72	76	79	69	73	76	80
40	40	63	66	70	73	64	67	71	74
40	60	57	61	63	67	60	63	65	68
40	80	54	57	59	63	57	60	61	64
40	100	53	55	56	60	55	58	59	62
60	30	69	73	76	79	70	73	77	80
60	40	63	67	70	73	65	68	71	74
60	60	58	61	63	67	60	63	65	68
60	80	55	57	59	62	57	59	61	64
60	100	53	55	56	59	55	57	58	61
100	40	66	69	72	75	67	70	72	75
100	60	61	63	65	68	62	64	66	69
100	80	57	59	60	63	58	61	62	65
100	100	55	56	57	60	56	58	59	61