



LUMINAIRE TESTING LABORATORY, INC.



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

LTL NUMBER: 01936

DATE: 12-22-1994

PREPARED FOR: MERCURY LIGHTING PRODUCTS COMPANY INC.

CATALOG NUMBER: M106-232-OCT-A-ART-4LT-HSG-ELB-120V-B232I-120-RH

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

LAMPS: TWO F32/T8 RATED 2900 LUMENS EACH.

BALLAST: MAGNETEK B232I120RH

MOUNTING: SURFACE

LUMEN TO CANDELA RATIO USED = 9.17

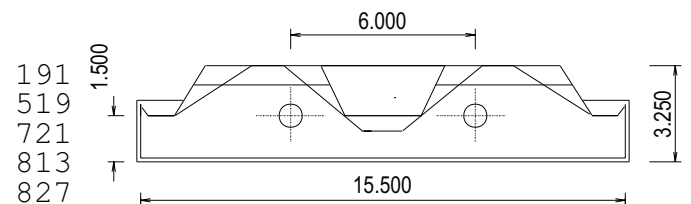
TOTAL INPUT WATTS = 56.6 AT 120.0 VOLTS

THE 0 DEGREE PLANE IS PARALLEL WITH THE LAMPS.

CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0	2044	2044	2044	2044	2044
5	2034	2028	2021	2008	2004
15	1941	1909	1842	1773	1746
25	1758	1691	1543	1443	1411
35	1498	1399	1247	1192	1191
45	1151	1068	1032	1073	1092
55	679	706	764	781	773
65	320	361	390	408	422
75	149	171	230	272	283
85	47	72	144	210	225
90	3	26	115	205	239
95	0	28	126	193	212
105	2	32	64	82	88
115	4	28	59	71	75
125	5	20	45	63	68
135	6	15	29	41	45
145	7	12	20	27	30
155	7	9	13	17	19
165	7	9	9	9	11
175	8	8	8	8	8
180	7	7	7	7	7

FLUX #01936



ZONAL LUMEN SUMMARY

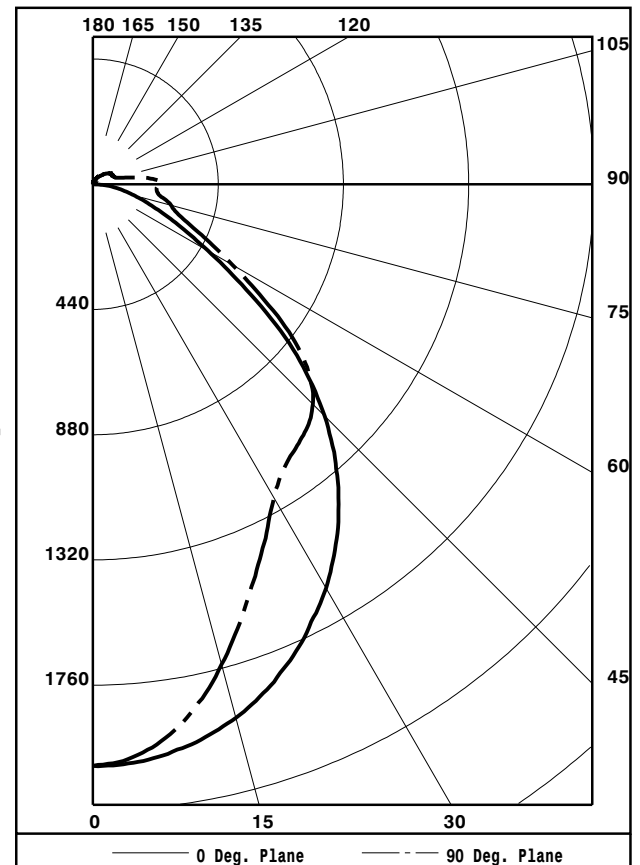
ZONE	LUMENS	%LAMP	%FIXT
0- 30	1431	24.7	29.7
0- 40	2244	38.7	46.6
0- 60	3734	64.4	77.5
0- 90	4508	77.7	93.5
90-120	231	4.0	4.8
90-130	269	4.6	5.6
90-150	303	5.2	6.3
90-180	312	5.4	6.5
0-180	4820	83.1	100.0

TOTAL LUMINAIRE EFFICIENCY: 83.1%

CIE TYPE: DIRECT

PLANE: 0-DEG 90-DEG

SPACING CRITERIA: 1.2 1.0



TESTED BY JOHN HAYES

CHECKED BY JAY LANGTHORN

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



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SUSTAINING
MEMBER

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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	98	98	98	98	95	95	95	95	89	89	89	84	84	84	80	80	80	78
1	90	86	83	80	87	84	81	78	79	77	75	75	73	72	71	70	68	66
2	83	77	71	67	80	75	70	66	71	67	64	67	64	61	64	62	59	57
3	76	68	62	57	74	67	61	57	64	59	55	61	57	53	58	55	52	50
4	70	61	55	50	68	60	54	49	57	52	48	55	50	47	52	49	45	44
5	65	55	48	43	63	54	47	42	51	46	41	49	44	40	47	43	39	38
6	60	49	42	37	58	48	42	37	46	41	36	44	39	36	43	38	35	33
7	55	45	38	33	54	44	37	33	42	36	32	40	35	31	39	34	31	29
8	51	40	33	29	49	39	33	28	38	32	28	36	31	27	35	30	27	25
9	47	36	29	25	46	35	29	25	34	28	24	33	28	24	32	27	24	22
10	44	33	26	22	42	32	26	22	31	26	22	30	25	21	29	24	21	20

PLANE: 0-DEG 90-DEG
LUMINOUS LENGTH: 47.875 15.700
HEIGHT OF SIDE: 0.000 1.750

LUMINANCE IN CANDELA PER SQUARE METER

ANGLE	AVERAGE	AVERAGE	AVERAGE
IN DEG	0-DEG	45-DEG	90-DEG
0	4215.	4215.	4215.
45	3356.	2793.	2870.
55	2441.	2471.	2400.
65	1561.	1629.	1663.
75	1187.	1416.	1593.
85	1112.	1792.	2341.



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CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0	2044	2044	2044	2044	2044
5	2034	2028	2021	2008	2004
10	1998	1983	1952	1917	1903
15	1941	1909	1842	1773	1746
20	1861	1811	1701	1603	1571
25	1758	1691	1543	1443	1411
30	1638	1550	1392	1297	1272
35	1498	1399	1247	1192	1191
40	1335	1235	1129	1133	1150
45	1151	1068	1032	1073	1092
50	935	896	927	970	973
55	679	706	764	781	773
60	466	522	544	563	564
65	320	361	390	408	422
70	219	243	297	314	326
75	149	171	230	272	283
80	94	120	182	241	241
85	47	72	144	210	225
90	3	26	115	205	239
95	0	28	126	193	212
100	1	37	101	128	136
105	2	32	64	82	88
110	3	29	59	75	78
115	4	28	59	71	75
120	5	25	55	70	74
125	5	20	45	63	68
130	6	18	37	52	57
135	6	15	29	41	45
140	7	13	24	33	36
145	7	12	20	27	30
150	7	10	16	21	24
155	7	9	13	17	19
160	7	9	11	14	15
165	7	9	9	9	11
170	8	9	9	8	9
175	8	8	8	8	8
180	7	7	7	7	7

ZONAL LUMEN SUMMARY

0- 5	49.
5- 10	142.
10- 15	226.
15- 20	293.
20- 25	343.
25- 30	378.
30- 35	400.
35- 40	413.
40- 45	419.
45- 50	408.
50- 55	369.
55- 60	294.
60- 65	219.
65- 70	165.
70- 75	129.
75- 80	107.
80- 85	86.
85- 90	67.
90- 95	64.
95-100	56.
100-105	36.
105-110	27.
110-115	25.
115-120	24.
120-125	21.
125-130	16.
130-135	12.
135-140	9.
140-145	7.
145-150	5.
150-155	4.
155-160	3.
160-165	2.
165-170	1.
170-175	1.
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. 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	72	75	80	85	69	73	79	86
20	30	68	70	73	78	61	66	72	78
20	40	66	68	70	73	56	60	67	72
20	60	64	66	68	70	50	55	61	66
30	20	73	75	79	84	70	74	79	85
30	30	68	70	72	76	61	66	71	76
30	40	65	67	69	71	55	60	65	70
30	60	63	65	66	68	49	54	59	64
30	80	62	64	64	66	45	50	55	60
40	20	73	76	80	84	72	76	80	84
40	30	68	70	73	76	63	67	71	76
40	40	65	67	69	71	56	61	65	69
40	60	62	64	65	67	50	54	58	63
40	80	61	63	63	65	45	50	54	58
40	100	61	62	63	64	42	47	50	55
60	30	68	71	73	76	65	69	72	76
60	40	64	67	68	70	58	62	66	69
60	60	62	64	65	67	50	55	58	63
60	80	60	62	62	64	45	50	53	58
60	100	60	61	61	63	42	46	50	54
100	40	65	67	69	72	62	65	68	72
100	60	62	64	65	67	54	58	60	64
100	80	60	62	62	64	48	52	55	59
100	100	59	60	61	63	44	48	51	54