



LUMINAIRE TESTING LABORATORY, INC.



SUSTAINING
MEMBER

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

LTL NUMBER: 01633

DATE: 5-23-1994

PREPARED FOR: MERCURY LIGHTING PROD.

CATALOG NUMBER: 35E-332-OCT-SPW-ELB-120V/35E-332-OCT-SPW-ELB-120V-20GA

LUMINAIRE: FORMED STEEL HOUSING, WHITE ENAMEL REFLECTOR,
3/8" HIGH 5/8" x 5/8" PLASTIC SPECULAR PARABOLIC LOUVER.

BALLAST: ONE EBT SSB2-120-3/32IS LH.

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

MOUNTING: RECESS

LUMEN TO CANDELA RATIO USED = 9.17

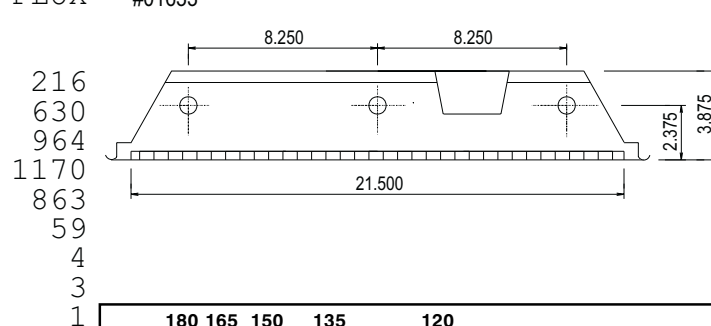
TOTAL INPUT WATTS = 85.8 AT 120.0 VOLTS

THE 0 DEGREE PLANE IS PARALLEL WITH THE LAMPS.

CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0	2231	2231	2231	2231	2231
5	2221	2240	2257	2274	2281
15	2129	2217	2272	2260	2247
25	1936	2054	2069	2183	2199
35	1667	1770	1900	1973	2007
45	917	1053	1193	1315	1372
55	9	25	55	31	11
65	3	4	3	4	4
75	3	3	2	2	2
85	1	1	1	1	1
90	0	0	0	0	0

FLUX #01633



ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LAMP	%FIXT
0- 30	1810	20.8	46.3
0- 40	2981	34.3	76.2
0- 60	3903	44.9	99.8
0- 90	3910	44.9	100.0
90-180	0	0.0	0.0
0-180	3910	44.9	100.0

TOTAL LUMINAIRE EFFICIENCY: 44.9%

TOTAL REFLECTANCE OF PAINT: 89.4%

CIE TYPE: DIRECT

PLANE: 0-DEG 90-DEG

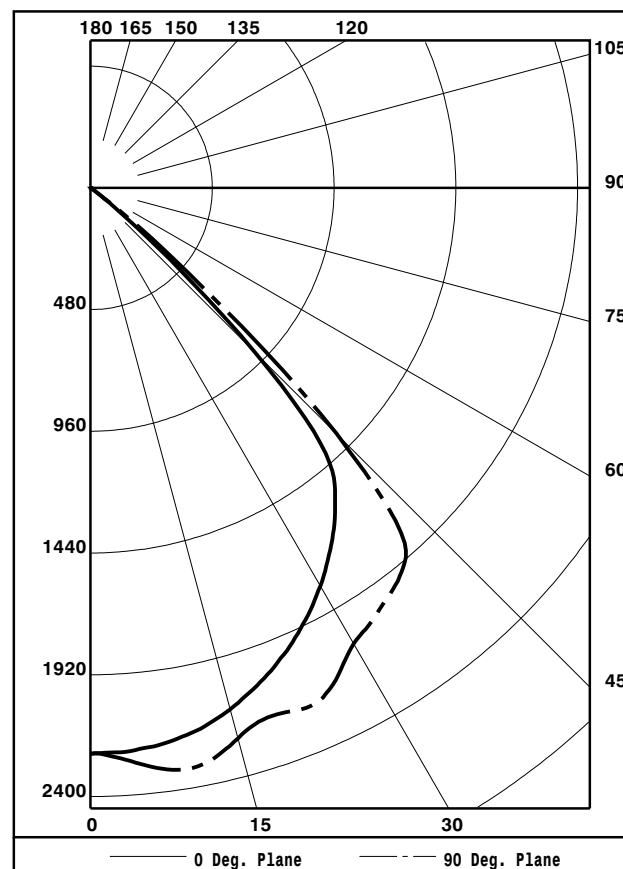
SPACING CRITERIA: 1.2 1.4

SHIELDING ANGLES: 45 45

LUMINOUS LENGTH: 45.500 21.500

LUMINANCE IN CANDELA PER SQUARE METER

ANGLE IN DEG	AVERAGE 0-DEG	AVERAGE 45-DEG	AVERAGE 90-DEG
0	3535.	3535.	3535.
45	2055.	2673.	3074.
55	25.	152.	30.
65	11.	11.	15.
75	18.	12.	12.
85	18.	18.	18.



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	54	54	54	54	52	52	52	52	50	50	50	48	48	48	46	46	46	45
1	51	49	48	47	50	48	47	46	47	46	45	45	44	44	43	43	42	42
2	48	46	44	42	47	45	43	42	43	42	41	42	41	40	41	40	39	38
3	45	42	40	38	44	41	39	37	40	38	37	39	38	36	38	37	36	35
4	43	39	36	34	42	38	36	34	37	35	33	36	34	33	35	34	33	32
5	40	36	33	31	39	35	32	30	34	32	30	34	31	30	33	31	30	29
6	37	33	30	28	37	33	30	28	32	29	27	31	29	27	31	29	27	26
7	35	30	27	25	34	30	27	25	29	27	25	29	26	25	28	26	24	24
8	32	27	24	22	32	27	24	22	27	24	22	26	24	22	26	23	22	21
9	30	25	22	20	29	25	22	19	24	21	19	24	21	19	23	21	19	19
10	28	23	20	17	27	22	19	17	22	19	17	22	19	17	21	19	17	17

CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0	2231	2231	2231	2231	2231
5	2221	2240	2257	2274	2281
10	2190	2240	2295	2321	2323
15	2129	2217	2272	2260	2247
20	2042	2155	2166	2185	2204
25	1936	2054	2069	2183	2199
30	1813	1917	2009	2071	2075
35	1667	1770	1900	1973	2007
40	1493	1583	1724	1854	1927
45	917	1053	1193	1315	1372
50	192	305	443	413	374
55	9	25	55	31	11
60	4	5	5	5	5
65	3	4	3	4	4
70	2	2	2	2	2
75	3	3	2	2	2
80	1	2	2	2	1
85	1	1	1	1	1
90	0	0	0	0	0

ZONAL LUMEN SUMMARY

0- 5	54.
5- 10	163.
10- 15	269.
15- 20	361.
20- 25	446.
25- 30	517.
30- 35	568.
35- 40	603.
40- 45	567.
45- 50	296.
50- 55	56.
55- 60	4.
60- 65	2.
65- 70	2.
70- 75	2.
75- 80	1.
80- 85	1.
85- 90	1.

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
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	99	96	97	93	99	94	95	90
20	30	99	96	98	94	99	95	95	90
20	40	99	97	98	94	99	95	96	90
20	60	99	97	98	94	99	95	96	91
30	20	99	96	98	94	99	95	95	91
30	30	99	97	98	95	99	95	96	92
30	40	99	97	98	95	99	95	96	92
30	60	99	97	98	95	99	95	96	92
30	80	99	97	98	95	99	95	96	92
40	20	99	97	98	95	99	95	96	92
40	30	99	97	98	95	99	95	96	92
40	40	99	97	98	95	99	95	96	92
40	60	99	97	98	95	99	95	96	92
40	80	99	97	98	95	99	95	96	92
40	100	99	97	98	95	99	95	96	92
60	30	99	97	98	95	99	95	96	92
60	40	99	97	98	95	99	95	96	92
60	60	99	97	98	95	99	95	96	92
60	80	99	97	98	95	99	95	96	92
60	100	99	97	98	95	99	95	96	92
100	40	99	97	98	95	99	95	96	92
100	60	99	97	98	95	99	95	96	92
100	80	100	97	98	95	99	95	96	93
100	100	100	97	98	95	99	95	96	93