



LUMINAIRE TESTING LABORATORY, INC.



SUSTAINING
MEMBER

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

LTL NUMBER: 01620

DATE: 5-23-1994

PREPARED FOR: MERCURY LIGHTING PROD.

CATALOG NUMBER: 35E-432-OCT-SPW-ELB-120V/35E-432-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 MAGNETEK TRIAD B432I120RH.

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

MOUNTING: RECESS

LUMEN TO CANDELA RATIO USED = 9.17

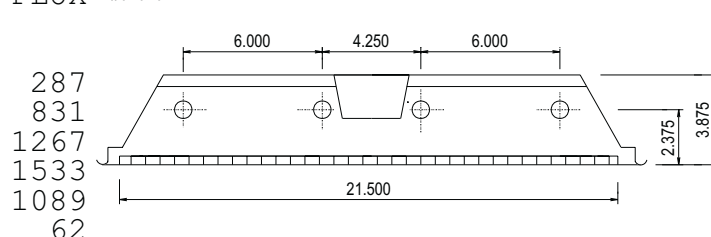
TOTAL INPUT WATTS = 108.9 AT 120.0 VOLTS

THE 0 DEGREE PLANE IS PARALLEL WITH THE LAMPS.

CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0	3008	3008	3008	3008	3008
5	2985	3011	3016	3016	3014
15	2855	2911	2952	2975	2976
25	2596	2672	2762	2839	2847
35	2230	2340	2470	2569	2612
45	1203	1356	1526	1624	1625
55	12	26	55	20	9
65	5	5	4	5	4
75	1	2	1	2	1
85	1	1	1	1	1
90	0	0	0	0	0

FLUX #01620



ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LAMP	%FIXT
0- 30	2385	20.6	47.0
0- 40	3918	33.8	77.2
0- 60	5069	43.7	99.9
0- 90	5076	43.8	100.0
90-180	0	0.0	0.0
0-180	5076	43.8	100.0

TOTAL LUMINAIRE EFFICIENCY: 43.8%

TOTAL REFLECTANCE OF PAINT: 89.1%

CIE TYPE: DIRECT

PLANE: 0-DEG 90-DEG

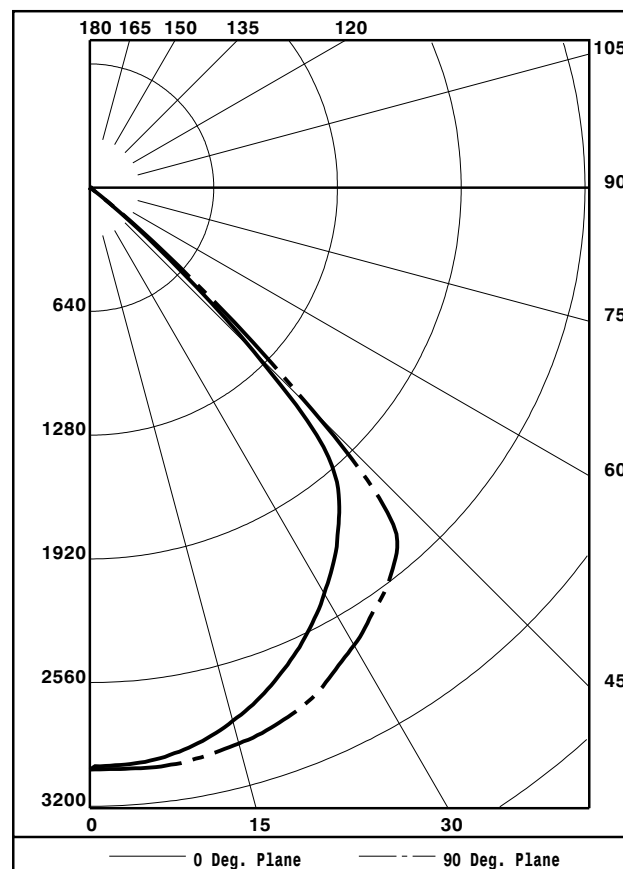
SPACING CRITERIA: 1.2 1.3

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	4766.	4766.	4766.
45	2695.	3419.	3641.
55	33.	152.	25.
65	19.	15.	15.
75	6.	6.	6.
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	52	52	52	52	51	51	51	51	49	49	49	47	47	47	45	45	45	44
1	49	48	47	46	48	47	46	45	45	45	44	44	43	43	42	42	41	41
2	47	45	43	41	46	44	42	41	42	41	40	41	40	39	40	39	38	37
3	44	41	39	37	43	40	38	37	39	37	36	38	37	35	37	36	35	34
4	41	38	35	33	41	37	35	33	36	34	33	35	34	32	35	33	32	31
5	39	35	32	30	38	34	32	30	34	31	29	33	31	29	32	30	29	28
6	37	32	29	27	36	32	29	27	31	29	27	31	28	27	30	28	27	26
7	34	30	27	24	33	29	26	24	29	26	24	28	26	24	28	26	24	23
8	32	27	24	22	31	27	24	22	26	23	22	26	23	21	25	23	21	21
9	29	24	21	19	29	24	21	19	24	21	19	23	21	19	23	21	19	18
10	27	22	19	17	27	22	19	17	22	19	17	21	19	17	21	19	17	16

CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0	3008	3008	3008	3008	3008
5	2985	3011	3016	3016	3014
10	2941	2980	3003	3011	3007
15	2855	2911	2952	2975	2976
20	2740	2808	2866	2923	2928
25	2596	2672	2762	2839	2847
30	2423	2516	2632	2709	2733
35	2230	2340	2470	2569	2612
40	1987	2087	2239	2374	2467
45	1203	1356	1526	1624	1625
50	261	376	549	417	352
55	12	26	55	20	9
60	5	5	5	5	5
65	5	5	4	5	4
70	3	3	3	3	3
75	1	2	1	2	1
80	3	2	2	2	2
85	1	1	1	1	1
90	0	0	0	0	0

ZONAL LUMEN SUMMARY

0- 5	72.
5- 10	215.
10- 15	352.
15- 20	478.
20- 25	589.
25- 30	678.
30- 35	746.
35- 40	787.
40- 45	732.
45- 50	358.
50- 55	58.
55- 60	4.
60- 65	2.
65- 70	2.
70- 75	1.
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	95	96	91	99	93	95	88
20	30	99	95	97	91	99	93	95	89
20	40	99	95	97	91	99	93	95	89
20	60	99	95	97	92	99	93	95	89
30	20	99	95	97	92	99	93	95	90
30	30	99	95	97	93	99	93	95	90
30	40	99	95	97	93	99	93	95	90
30	60	99	95	97	93	99	93	95	91
30	80	99	95	97	93	99	93	95	91
40	20	99	95	97	93	99	93	95	90
40	30	99	95	97	93	99	93	95	90
40	40	99	95	97	93	99	93	95	91
40	60	99	95	97	93	99	93	95	91
40	80	99	95	97	93	99	94	96	91
40	100	99	95	97	93	99	94	96	91
60	30	99	95	97	93	99	93	95	91
60	40	99	95	97	93	99	93	95	91
60	60	99	95	97	93	99	94	96	91
60	80	99	96	97	93	99	94	96	91
60	100	99	96	97	93	99	94	96	91
100	40	99	95	97	93	99	94	96	91
100	60	99	96	97	93	99	94	96	91
100	80	99	96	97	93	99	94	96	91
100	100	99	96	97	93	99	94	96	91