



LUMINAIRE TESTING LABORATORY, INC.



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

LTL NUMBER: 01631

DATE: 5-23-1994

PREPARED FOR: MERCURY LIGHTING PROD.

CATALOG NUMBER: 35E-432-OCT-LSPW-ELB-120V/

35E-432-OCT-LSPW-ELB-120V-20GA

LUMINAIRE: FORMED STEEL HOUSING, WHITE ENAMEL REFLECTOR,
1" HIGH 1.5" x 1.5" 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

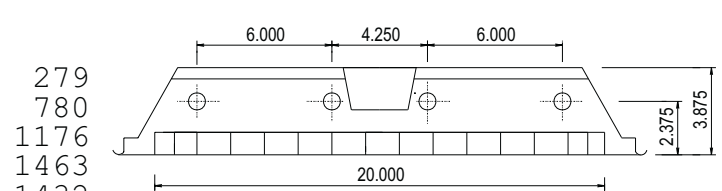
TOTAL INPUT WATTS = 109.2 AT 120.0 VOLTS

THE 0 DEGREE PLANE IS PARALLEL WITH THE LAMPS.

CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0	2953	2953	2953	2953	2953
5	2949	2953	2939	2925	2918
15	2814	2805	2754	2715	2701
25	2542	2502	2503	2594	2623
35	2171	2145	2332	2530	2566
45	1648	1748	1921	2041	2128
55	72	252	401	260	76
65	3	3	3	2	2
75	1	1	1	1	1
85	0	0	0	0	0
90	0	0	0	0	0

FLUX #01631



ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LAMP	%FIXT
0- 30	2235	19.3	40.8
0- 40	3698	31.9	67.5
0- 60	5472	47.2	99.9
0- 90	5475	47.2	100.0
90-180	0	0.0	0.0
0-180	5475	47.2	100.0

TOTAL LUMINAIRE EFFICIENCY: 47.2%

TOTAL REFLECTANCE OF PAINT: 89.1%

CIE TYPE: DIRECT

PLANE: 0-DEG 90-DEG

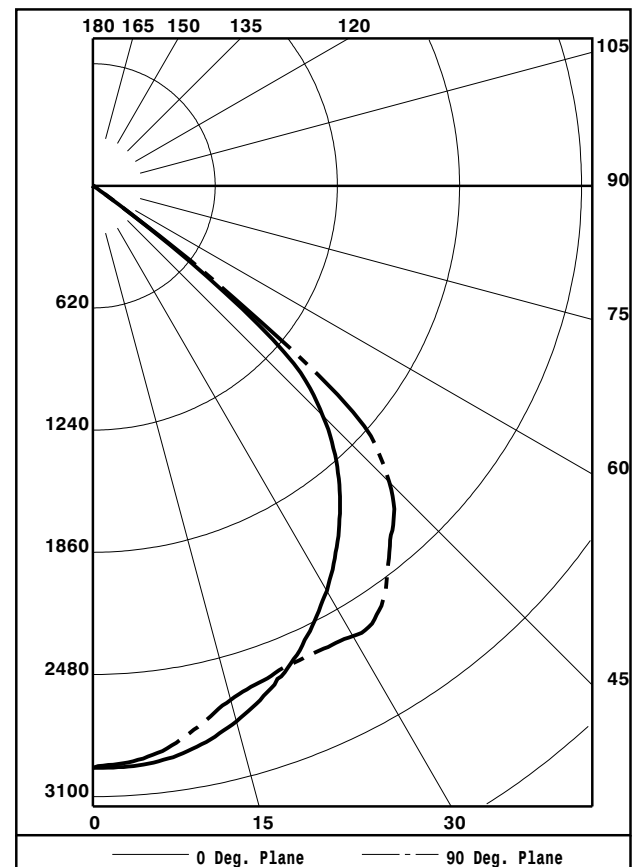
SPACING CRITERIA: 1.2 1.4

SHIELDING ANGLES: 43 43

LUMINOUS LENGTH: 44.250 20.000

LUMINANCE IN CANDELA PER SQUARE METER

ANGLE IN DEG	AVERAGE 0-DEG	AVERAGE 45-DEG	AVERAGE 90-DEG
0	5172.	5172.	5172.
45	4082.	4758.	5270.
55	220.	1224.	232.
65	12.	12.	8.
75	7.	7.	7.
85	0.	0.	0.



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: 01631

DATE: 5-23-1994

PREPARED FOR: MERCURY LIGHTING PROD.

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	50	30	10	0
0	56	56	56	56	55	55	55	55	52	52	52	50	50	50	48	48	48	47	47	47	47
1	53	52	50	49	52	51	50	48	49	48	47	47	46	46	45	45	44	43	43	43	43
2	50	48	45	44	49	47	45	43	45	44	42	44	42	41	42	41	40	40	40	40	40
3	47	44	41	39	46	43	40	38	42	40	38	40	39	37	39	38	37	36	36	36	36
4	44	40	37	35	43	39	37	34	38	36	34	37	35	33	36	35	33	32	32	32	32
5	41	36	33	31	40	36	33	31	35	32	30	34	32	30	33	31	30	29	29	29	29
6	38	33	30	28	38	33	30	27	32	29	27	31	29	27	31	29	27	26	26	26	26
7	36	30	27	24	35	30	27	24	29	26	24	29	26	24	28	26	24	23	23	23	23
8	33	27	24	21	32	27	24	21	26	23	21	26	23	21	25	23	21	20	20	20	20
9	30	25	21	19	30	24	21	19	24	21	19	23	20	19	23	20	18	18	18	18	18
10	28	22	19	17	27	22	19	17	22	19	16	21	18	16	21	18	16	16	16	16	16

CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0	2953	2953	2953	2953	2953
5	2949	2953	2939	2925	2918
10	2902	2902	2874	2844	2821
15	2814	2805	2754	2715	2701
20	2694	2670	2609	2642	2647
25	2542	2502	2503	2594	2623
30	2373	2320	2412	2572	2639
35	2171	2145	2332	2530	2566
40	1940	1975	2212	2317	2346
45	1648	1748	1921	2041	2128
50	1097	1184	1309	1384	1490
55	72	252	401	260	76
60	4	5	26	4	3
65	3	3	3	2	2
70	1	1	1	1	1
75	1	1	1	1	1
80	1	1	1	0	0
85	0	0	0	0	0
90	0	0	0	0	0

ZONAL LUMEN SUMMARY

0- 5	71.
5- 10	208.
10- 15	334.
15- 20	445.
20- 25	544.
25- 30	632.
30- 35	709.
35- 40	754.
40- 45	759.
45- 50	672.
50- 55	320.
55- 60	22.
60- 65	2.
65- 70	1.
70- 75	1.
75- 80	0.
80- 85	0.
85- 90	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.



LUMINAIRE TESTING LABORATORY, INC.



SUSTAINING
MEMBER

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

LTL NUMBER: 01631

DATE: 5-23-1994

PREPARED FOR: MERCURY LIGHTING PROD.

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	88	95	90	80	85	93	87	76
20	30	88	95	90	80	86	93	88	76
20	40	89	95	90	80	86	94	88	76
20	60	89	95	91	81	86	94	88	76
30	20	88	95	90	83	86	93	88	79
30	30	89	95	91	83	86	94	88	80
30	40	89	95	91	83	86	94	88	80
30	60	89	95	91	83	86	94	88	80
30	80	89	95	91	83	87	94	89	80
40	20	89	95	90	83	86	94	88	79
40	30	89	95	91	83	86	94	88	80
40	40	89	95	91	83	86	94	88	80
40	60	89	95	91	83	87	94	89	80
40	80	89	95	91	83	87	94	89	80
40	100	89	95	91	84	87	94	89	80
60	30	89	95	91	83	86	94	88	80
60	40	89	95	91	83	87	94	89	80
60	60	89	95	91	84	87	94	89	80
60	80	89	95	91	84	87	94	89	80
60	100	89	95	91	84	87	94	89	80
100	40	89	95	91	83	87	94	89	80
100	60	89	95	91	84	87	94	89	80
100	80	90	95	91	84	87	94	89	81
100	100	90	95	91	84	87	94	89	81