



LUMINAIRE TESTING LABORATORY, INC.



SUSTAINING
MEMBER

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

LTL NUMBER: 05728

DATE: 04-02-2001

PREPARED FOR: MERCURY LIGHTING PRODUCTS COMPANY INC.

CATALOG NUMBER: ZB-22G-224-HO-T5-ELB-120V

LUMINAIRE: FORMED STEEL HOUSING, FORMED WHITE ENAMEL STEEL REFLECTORS,
FORMED WHITE ENAMEL PERFORATED STEEL SHIELD WITH TRANSLUCENT
WHITE ACRYLIC INSERT BELOW LAMPS.

LAMPS: TWO SYLVANIA FP24/835/HO RATED AT 1760 LUMENS EACH.

BALLAST: ONE SYLVANIA QT2X39-24/120PHO

MOUNTING: RECESSED

LUMEN TO CANDELA RATIO USED = 9.17

TOTAL INPUT WATTS = 54.1 AT 120.0 VOLTS

THE 0 DEGREE PLANE IS PARALLEL WITH THE LAMPS.

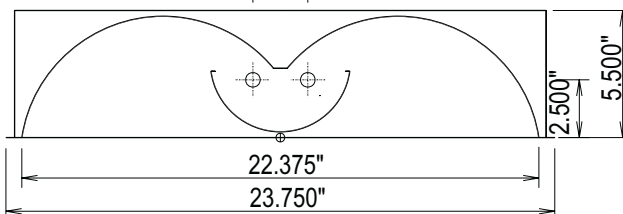
#05728

CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0	736	736	736	736	736
5	731	734	734	734	734
15	701	708	715	723	723
25	644	655	674	693	699
35	562	581	617	647	657
45	461	489	539	578	594
55	344	383	445	497	517
65	224	263	332	378	389
75	116	139	169	177	185
85	26	29	35	37	38
90	0	0	0	0	0

FLUX

70
202
311
385
413
392
315
169
40



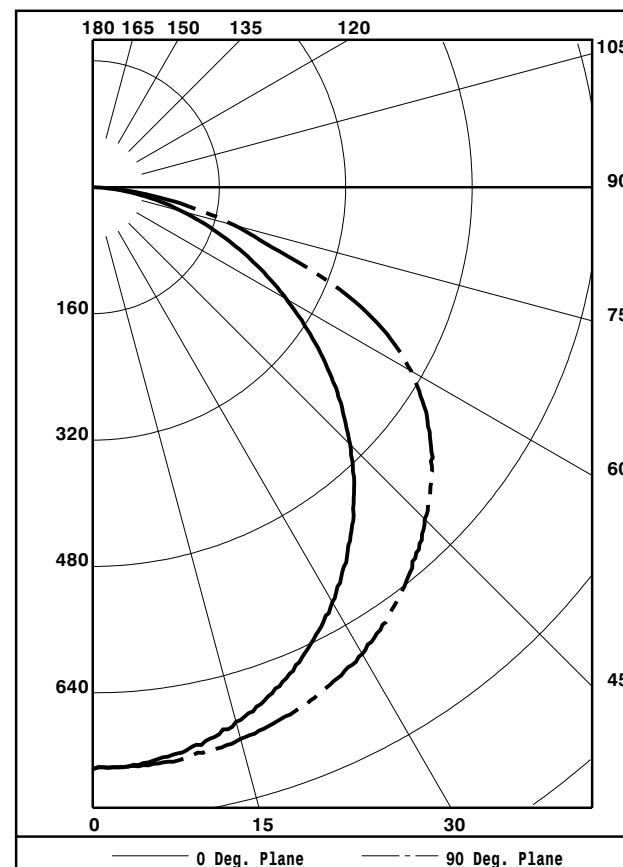
ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LAMP	%FIXT
0- 30	583	16.6	25.4
0- 40	968	27.5	42.1
0- 60	1773	50.4	77.2
0- 90	2297	65.3	100.0
90-180	0	0.0	0.0
0-180	2297	65.3	100.0

TOTAL LUMINAIRE EFFICIENCY: 65.3%
TOTAL REFLECTANCE OF PAINT: 90.5%
CIE TYPE: DIRECT
PLANE: 0-DEG 90-DEG
SPACING CRITERIA: 1.2 1.4
LUMINOUS LENGTH: 23.000 22.375

LUMINANCE IN CANDELA PER SQUARE METER

ANGLE IN DEG	AVERAGE 0-DEG	AVERAGE 45-DEG	AVERAGE 90-DEG
0	2217.	2217.	2217.
45	1963.	2296.	2530.
55	1806.	2337.	2715.
65	1596.	2366.	2772.
75	1350.	1967.	2153.
85	898.	1209.	1313.



TESTED BY HERSCHEL SCHRECK
CHECKED BY MIKE GRATHER

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	78	78	78	78	76	76	76	76	73	73	73	69	69	69	67	67	67	65
1	71	68	66	63	70	67	64	62	64	62	60	62	60	58	59	58	57	55
2	65	60	56	52	63	59	55	51	56	53	50	54	51	49	52	50	48	47
3	59	53	48	44	58	52	47	43	50	46	42	48	45	42	46	43	41	40
4	54	47	41	37	53	46	41	37	44	40	36	43	39	36	41	38	35	34
5	50	41	35	31	48	40	35	31	39	34	30	38	33	30	36	33	30	28
6	45	37	31	27	44	36	30	26	35	30	26	34	29	26	33	29	26	24
7	42	33	27	23	41	32	27	23	31	26	23	30	26	22	29	25	22	21
8	38	29	24	20	37	29	23	20	28	23	20	27	23	19	26	22	19	18
9	35	26	21	17	34	26	21	17	25	20	17	24	20	17	24	20	17	15
10	33	24	18	15	32	24	18	15	23	18	15	22	18	15	22	18	15	13

CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0	736	736	736	736	736
5	731	734	734	734	734
10	719	724	728	730	730
15	701	708	715	723	723
20	675	684	696	709	713
25	644	655	674	693	699
30	606	621	648	672	682
35	562	581	617	647	657
40	514	538	582	616	629
45	461	489	539	578	594
50	404	438	495	540	560
55	344	383	445	497	517
60	283	323	391	446	465
65	224	263	332	378	389
70	168	202	262	279	275
75	116	139	169	177	185
80	70	78	94	103	105
85	26	29	35	37	38
90	0	0	0	0	0

ZONAL LUMEN SUMMARY

0- 5	18.
5- 10	52.
10- 15	86.
15- 20	116.
20- 25	144.
25- 30	167.
30- 35	186.
35- 40	199.
40- 45	206.
45- 50	207.
50- 55	202.
55- 60	190.
60- 65	172.
65- 70	143.
70- 75	103.
75- 80	66.
80- 85	32.
85- 90	7.

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 1760.

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	63	70	81	90	56	62	74	86
20	30	60	64	71	80	51	55	60	71
20	40	59	61	66	72	50	52	55	61
20	60	58	60	63	68	49	51	52	56
30	20	63	68	78	87	59	63	73	85
30	30	59	62	67	76	53	55	59	69
30	40	58	59	62	68	51	52	54	59
30	60	57	58	59	64	50	51	50	54
30	80	58	58	58	62	50	51	49	52
40	20	65	69	76	85	62	66	74	84
40	30	60	62	66	74	56	58	60	69
40	40	59	60	61	66	53	54	54	59
40	60	58	58	58	62	52	52	50	53
40	80	58	58	57	60	52	52	49	51
40	100	59	59	57	59	52	52	49	50
60	30	62	64	66	72	58	60	61	69
60	40	60	60	61	65	55	56	55	59
60	60	59	58	57	60	53	53	51	53
60	80	58	58	56	58	53	52	49	51
60	100	59	58	56	57	53	52	49	50
100	40	63	63	63	66	60	60	59	62
100	60	62	61	59	61	58	57	54	56
100	80	61	60	57	58	57	56	52	53
100	100	61	60	57	57	57	55	51	51