



# LUMINAIRE TESTING LABORATORY, INC.

SUSTAINING  
MEMBER  
of the  
IESNA

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

LTL NUMBER: 09792

DATE: 04-18-2006

PREPARED FOR: MERCURY LIGHTING PRODUCTS COMPANY INC.

CATALOG NUMBER: 35E-332-0OCT-9A.125-MRT-ELB-UNI-20GA-V

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

LAMPS: THREE 32 WATT T8 LINEAR FLUORESCENT LAMPS RATED AT 2850 LUMENS  
EACH.

LAMP CATALOG NUMBER: PHILIPS F32T8/TL835/ALTO

BALLAST: ONE ADVANCE ICN-3P32-SC

MOUNTING: RECESSED

LUMEN TO CANDELA RATIO USED = 9.18

TOTAL INPUT WATTS = 83.7 AT 120.0 VOLTS

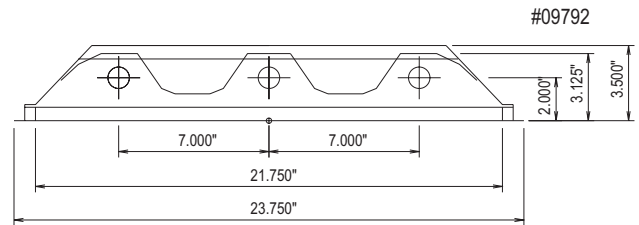
THE 0 DEGREE PLANE IS PARALLEL WITH THE LAMPS.

### CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0	2996	2996	2996	2996	2996
5	2977	2998	3000	3006	3007
15	2868	2913	2979	3030	3045
25	2623	2697	2795	2829	2832
35	2214	2264	2324	2301	2280
45	1632	1662	1638	1609	1598
55	1033	1014	967	972	979
65	570	526	458	497	545
75	348	298	258	264	311
85	134	136	111	111	111
90	9	13	9	17	20

### FLUX

286
838
1270
1424
1255
886
514
308
129



### ZONAL LUMEN SUMMARY

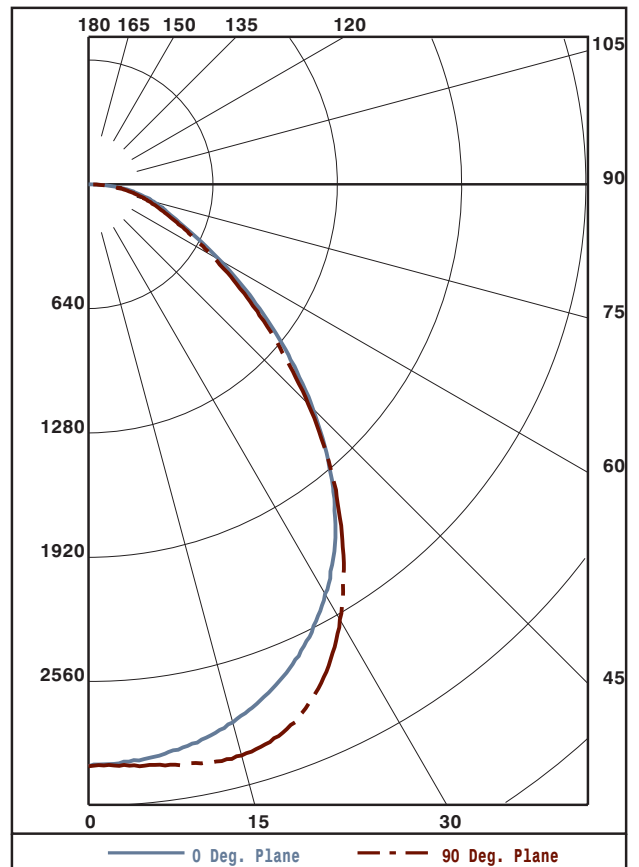
ZONE	LUMENS	%LAMP	%FIXT
0- 30	2395	28.0	34.6
0- 40	3819	44.7	55.3
0- 60	5960	69.7	86.2
0- 90	6912	80.8	100.0
90-180	0	0.0	0.0
0-180	6912	80.8	100.0

TOTAL LUMINAIRE EFFICIENCY: 80.8%

CIE TYPE: DIRECT  
 PLANE: 0-DEG 90-DEG  
 SPACING CRITERIA: 1.2 1.3  
 LUMINOUS LENGTH: 45.750 21.750

### LUMINANCE IN CANDELA PER SQUARE METER

ANGLE IN DEG	AVERAGE 0-DEG	AVERAGE 45-DEG	AVERAGE 90-DEG
0	4666.	4666.	4666.
45	3595.	3608.	3520.
55	2805.	2626.	2659.
65	2101.	1688.	2009.
75	2094.	1553.	1872.
85	2395.	1984.	1984.



TESTED BY HERSCHEL SCHRECK  
 CHECKED BY MIKE GRATHER



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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	96	96	96	96	94	94	94	94	90	90	90	86	86	86	82	82	82	81
1	89	86	83	80	87	84	82	79	81	79	77	78	76	74	75	74	72	71
2	83	77	72	68	81	76	71	68	73	69	66	70	67	65	68	65	63	62
3	77	69	64	59	75	68	63	59	66	61	58	64	60	57	62	58	56	54
4	71	62	56	51	69	61	56	51	59	54	50	58	53	50	56	52	49	48
5	65	56	49	45	64	55	49	44	54	48	44	52	47	44	51	46	43	42
6	61	51	44	39	59	50	44	39	49	43	39	47	42	39	46	42	38	37
7	56	46	39	35	55	45	39	35	44	39	34	43	38	34	42	37	34	33
8	52	41	35	31	51	41	35	30	40	34	30	39	34	30	38	33	30	28
9	48	37	31	27	47	37	31	27	36	30	26	35	30	26	34	30	26	25
10	44	34	28	24	43	34	28	24	33	27	24	32	27	23	31	27	23	22

CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0	2996	2996	2996	2996	2996
5	2977	2998	3000	3006	3007
10	2936	2964	2994	3021	3027
15	2868	2913	2979	3030	3045
20	2763	2826	2916	2972	2984
25	2623	2697	2795	2829	2832
30	2436	2511	2590	2599	2588
35	2214	2264	2324	2301	2280
40	1937	1981	1997	1960	1948
45	1632	1662	1638	1609	1598
50	1322	1329	1283	1271	1267
55	1033	1014	967	972	979
60	777	739	685	702	729
65	570	526	458	497	545
70	443	391	316	353	411
75	348	298	258	264	311
80	247	233	206	203	211
85	134	136	111	111	111
90	9	13	9	17	20

ZONAL LUMEN SUMMARY

0- 5	72.
5- 10	214.
10- 15	354.
15- 20	484.
20- 25	595.
25- 30	675.
30- 35	714.
35- 40	710.
40- 45	666.
45- 50	589.
50- 55	493.
55- 60	393.
60- 65	295.
65- 70	219.
70- 75	172.
75- 80	136.
80- 85	94.
85- 90	35.

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.