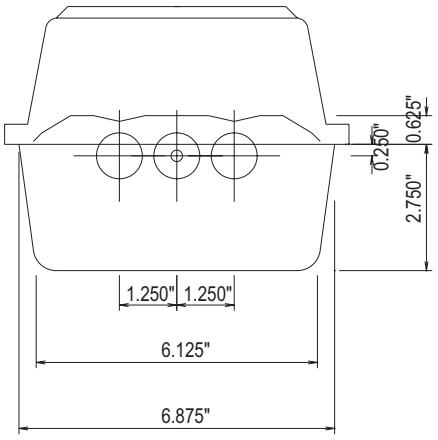
LTL LUMINAIRE TESTING LABORATORY, INC.

SUSTAINING MEMBER of the IESNA

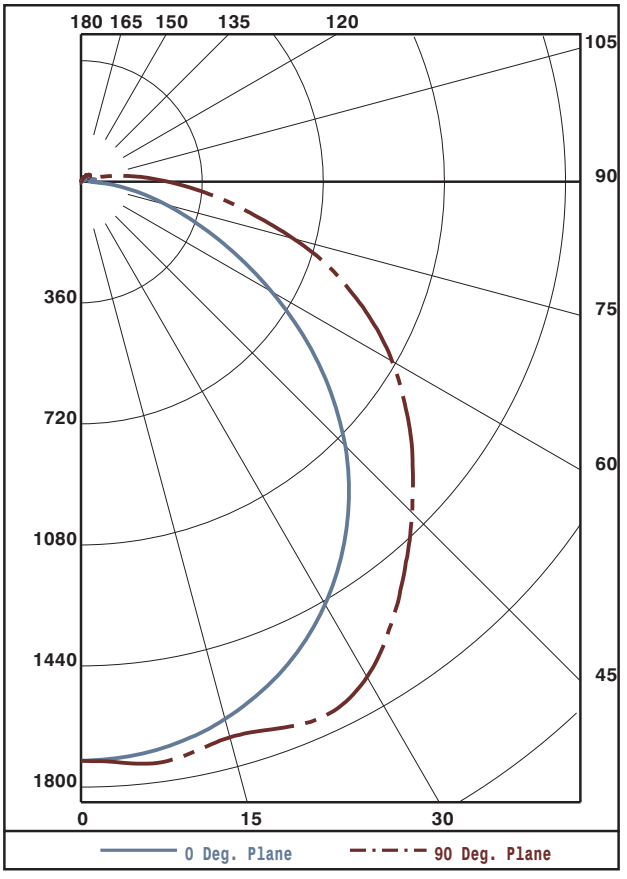
905 Harrison Street · Allentown, PA 18103 · 610-770-1044 · Fax 610-770-8912 · www.LuminaireTesting.com

LTL NUMBER: 10906 DATE: 01-22-2007
PREPARED FOR: MERCURY LIGHTING PRODUCTS COMPANY INC.
CATALOG NUMBER: M401-332-OCT-MRT-ELB-UNI
LUMINAIRE: MOLDED ACRYLIC HOUSING, FORMED SPECULAR ALUMINUM REFLECTOR, CLEAR PATTERNED ACRYLIC ENCLOSURE.
LAMPS: THREE 32 WATT T8 LINEAR FLUORESCENT LAMPS RATED AT 2850 LUMENS EACH.
LAMP CATALOG NUMBER: PHILIPS F32T8/TL830/ALTO
BALLAST: ONE ADVANCE ICN-3P32-SC
MOUNTING: SURFACE
LUMEN TO CANDELA RATIO USED = 9.18
TOTAL INPUT WATTS = 75.9 AT 120.0 VOLTS
THE 0 DEGREE PLANE IS PARALLEL WITH THE LAMPS.

#10906



CANDELA DISTRIBUTION						FLUX
	0.0	22.5	45.0	67.5	90.0	
0	1722	1722	1722	1722	1722	
5	1714	1717	1733	1732	1736	165
15	1654	1681	1703	1701	1710	479
25	1534	1569	1633	1716	1745	756
35	1352	1397	1549	1596	1607	942
45	1111	1198	1315	1369	1392	991
55	814	925	1054	1147	1178	922
65	506	634	824	921	944	769
75	258	408	570	636	653	546
85	81	183	283	348	371	287
90	29	106	179	237	258	
95	40	68	107	152	170	120
105	32	45	46	46	51	50
115	15	30	40	32	29	31
125	7	15	32	32	29	22
135	3	5	20	28	29	14
145	1	2	8	15	18	6
155	2	1	2	5	7	2
165	0	0	0	0	0	0
175	0	0	0	0	0	0
180	0	0	0	0	0	



ZONAL LUMEN SUMMARY			
ZONE	LUMENS	%LAMP	%FIXT
0- 30	1400	16.4	22.9
0- 40	2342	27.4	38.4
0- 60	4256	49.8	69.7
0- 90	5858	68.5	96.0
90-120	201	2.4	3.3
90-130	223	2.6	3.7
90-150	242	2.8	4.0
90-180	244	2.9	4.0
0-180	6102	71.4	100.0

TOTAL LUMINAIRE EFFICIENCY: 71.4%

CIE TYPE:	DIRECT	
PLANE:	0-DEG	90-DEG
SPACING CRITERIA:	1.3	1.4

Approved By: MG

THIS REPORT BASED ON LM-41 AND OTHER PERTINENT IESNA 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	84	84	84	84	82	82	82	82	78	78	78	74	74	74	70	70	70	69
1	76	73	69	67	74	71	68	65	67	65	63	64	62	60	61	59	58	56
2	69	63	58	54	67	62	57	53	59	55	51	56	53	50	53	51	48	46
3	63	56	50	45	61	54	49	44	52	47	43	49	45	42	47	44	41	39
4	58	49	43	38	56	48	42	37	46	41	37	44	39	36	42	38	35	33
5	53	43	37	32	51	42	36	31	40	35	31	39	34	30	37	33	30	28
6	48	39	32	27	47	38	32	27	36	31	27	35	30	26	33	29	26	24
7	45	35	28	24	43	34	28	23	32	27	23	31	26	23	30	26	22	21
8	41	31	25	20	40	30	24	20	29	24	20	28	23	20	27	23	19	18
9	38	28	22	17	37	27	21	17	26	21	17	25	20	17	24	20	17	15
10	35	25	19	15	34	25	19	15	24	19	15	23	18	15	22	18	15	13

PLANE:	0-DEG	90-DEG
LUMINOUS LENGTH:	49.000	6.875
HEIGHT OF SIDE:	2.750	2.750

LUMINANCE IN CANDELA PER SQUARE METER

ANGLE IN DEG	AVERAGE 0-DEG	AVERAGE 45-DEG	AVERAGE 90-DEG
0	7923.	7923.	7923.
45	6931.	6825.	6753.
55	6124.	6079.	6250.
65	4985.	5538.	5719.
75	3854.	4766.	4781.
85	2674.	3264.	3571.

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	0.0	22.5	45.0	67.5	90.0
0	1722	1722	1722	1722	1722
5	1714	1717	1733	1732	1736
10	1691	1705	1734	1733	1735
15	1654	1681	1703	1701	1710
20	1601	1635	1658	1701	1729
25	1534	1569	1633	1716	1745
30	1451	1486	1608	1682	1700
35	1352	1397	1549	1596	1607
40	1238	1303	1446	1483	1499
45	1111	1198	1315	1369	1392
50	967	1071	1181	1257	1287
55	814	925	1054	1147	1178
60	655	772	933	1039	1068
65	506	634	824	921	944
70	371	517	712	784	809
75	258	408	570	636	653
80	167	296	419	479	499
85	81	183	283	348	371
90	29	106	179	237	258
95	40	68	107	152	170
100	39	53	62	86	99
105	32	45	46	46	51
110	23	38	42	35	34
115	15	30	40	32	29
120	10	22	36	31	28
125	7	15	32	32	29
130	5	10	26	32	31
135	3	5	20	28	29
140	2	3	14	22	25
145	1	2	8	15	18
150	3	3	5	10	13
155	2	1	2	5	7
160	2	2	2	2	3
165	0	0	0	0	0
170	0	0	0	0	0
175	0	0	0	0	0
180	0	0	0	0	0

ZONAL LUMEN SUMMARY

0- 5	41.
5- 10	124.
10- 15	203.
15- 20	276.
20- 25	347.
25- 30	410.
30- 35	457.
35- 40	485.
40- 45	497.
45- 50	494.
50- 55	476.
55- 60	446.
60- 65	408.
65- 70	361.
70- 75	306.
75- 80	240.
80- 85	173.
85- 90	114.
90- 95	74.
95-100	47.
100-105	29.
105-110	21.
110-115	17.
115-120	14.
120-125	12.
125-130	10.
130-135	8.
135-140	6.
140-145	4.
145-150	2.
150-155	1.
155-160	1.
160-165	0.
165-170	0.
170-175	0.
175-180	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.