



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: 09791

DATE: 04-18-2006

PREPARED FOR: MERCURY LIGHTING PRODUCTS COMPANY INC.

CATALOG NUMBER: 34E-317-OCT-9A.125-MRT-ELB-UNI-20GA-V

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

LAMPS: THREE 17 WATT T8 LINEAR FLUORESCENT LAMPS RATED AT 1350 LUMENS
EACH.

LAMP CATALOG NUMBER: PHILIPS F17T8/TL835/ALTO

BALLAST: ONE ADVANCE ICN-3P32-SC

MOUNTING: RECESSED

LUMEN TO CANDELA RATIO USED = 9.16

TOTAL INPUT WATTS = 45.9 AT 120.0 VOLTS

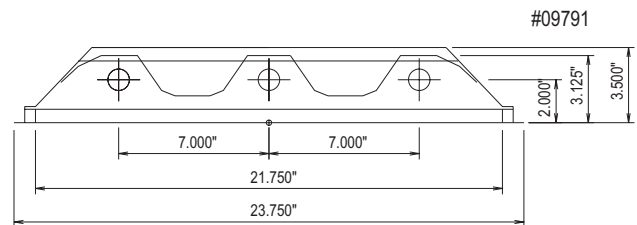
THE 0 DEGREE PLANE IS PARALLEL WITH THE LAMPS.

CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0	1381	1381	1381	1381	1381
5	1372	1379	1386	1391	1392
15	1318	1345	1393	1429	1441
25	1198	1248	1318	1350	1357
35	994	1035	1093	1098	1093
45	715	748	765	756	758
55	434	446	441	451	451
65	242	225	202	219	243
75	154	134	116	121	136
85	56	64	52	54	51
90	1	2	3	3	3

FLUX

132
392
597
666
580
399
224
136
59



ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LAMP	%FIXT
0- 30	1121	27.7	35.2
0- 40	1788	44.1	56.1
0- 60	2767	68.3	86.8
0- 90	3186	78.7	100.0
90-180	0	0.0	0.0
0-180	3186	78.7	100.0

TOTAL LUMINAIRE EFFICIENCY:

78.7%

CIE TYPE: DIRECT

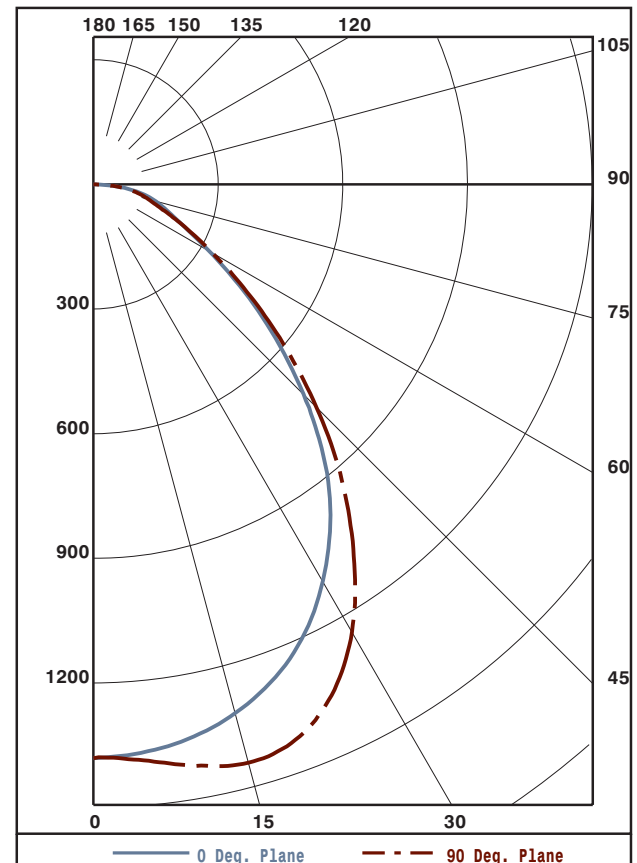
PLANE: 0-DEG 90-DEG

SPACING CRITERIA: 1.2 1.3

LUMINOUS LENGTH: 21.625 21.750

LUMINANCE IN CANDELA PER SQUARE METER

ANGLE IN DEG	AVERAGE 0-DEG	AVERAGE 45-DEG	AVERAGE 90-DEG
0	4551.	4551.	4551.
45	3332.	3565.	3532.
55	2493.	2534.	2591.
65	1887.	1575.	1895.
75	1961.	1477.	1732.
85	2117.	1966.	1928.



TESTED BY HERSCHEL SCHRECK
CHECKED BY MIKE GRATHER

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	94	94	94	94	91	91	91	91	87	87	87	84	84	84	80	80	80	79
1	87	84	81	78	85	82	80	77	79	77	75	76	74	73	73	72	70	69
2	81	75	71	67	79	74	70	66	71	68	65	69	66	63	66	64	62	60
3	75	68	62	58	73	66	61	57	64	60	56	62	59	55	60	57	55	53
4	69	61	55	50	67	60	54	50	58	53	49	56	52	49	55	51	48	47
5	64	55	49	44	62	54	48	44	52	47	43	51	46	43	50	46	42	41
6	59	50	43	39	58	49	43	39	48	42	38	46	42	38	45	41	38	36
7	55	45	39	34	54	44	38	34	43	38	34	42	37	34	41	37	33	32
8	51	41	34	30	49	40	34	30	39	34	30	38	33	30	37	33	29	28
9	47	37	30	26	46	36	30	26	35	30	26	34	30	26	34	29	26	24
10	43	33	27	23	42	33	27	23	32	27	23	32	27	23	31	26	23	22

CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0	1381	1381	1381	1381	1381
5	1372	1379	1386	1391	1392
10	1352	1368	1393	1414	1421
15	1318	1345	1393	1429	1441
20	1267	1307	1373	1412	1422
25	1198	1248	1318	1350	1357
30	1104	1158	1223	1243	1244
35	994	1035	1093	1098	1093
40	864	898	938	931	930
45	715	748	765	756	758
50	569	590	594	594	596
55	434	446	441	451	451
60	322	320	308	321	331
65	242	225	202	219	243
70	191	169	136	154	177
75	154	134	116	121	136
80	110	107	96	92	99
85	56	64	52	54	51
90	1	2	3	3	3

ZONAL LUMEN SUMMARY

0- 5	33.
5- 10	99.
10- 15	165.
15- 20	227.
20- 25	280.
25- 30	317.
30- 35	335.
35- 40	332.
40- 45	309.
45- 50	270.
50- 55	224.
55- 60	175.
60- 65	129.
65- 70	95.
70- 75	74.
75- 80	62.
80- 85	43.
85- 90	15.

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.