



# 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: 18378  
PREPARED FOR: LUMETTA, INC.  
CATALOG NUMBER: FPB6644Z

DATE: 07-08-2010

LUMINAIRE: FORMED WHITE ENAMEL STEEL HOUSING/REFLECTOR, TRANSLUCENT WHITE PLASTIC SIDE DIFFUSER WITH FORMED STEEL FRAME, TRANSLUCENT WHITE PLASTIC LOWER LENS, OPEN TOP.

LAMP: TWO 25 WATT T8 LINEAR FLUORESCENT LAMPS RATED AT 2150 LUMENS EACH.

LAMP CATALOG NUMBER: SYLVANIA F25T8-SPX35  
BALLAST: ONE FULHAM WORKHORSE "3" WH3-120-L  
MOUNTING: PENDANT  
ELECTRICAL VALUES: 120.0VAC, 0.4086A, 45.77W

### Candela Distribution

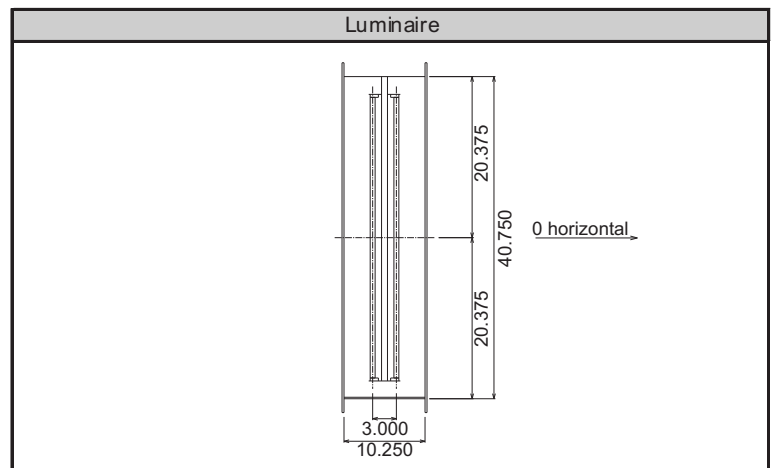
	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5	Flux
0	112	112	112	112	112	112	112	112	112	112	112	112	112	112	112	112	
5	119	119	118	118	118	118	118	119	119	119	118	118	118	118	118	119	11.6
15	141	141	140	140	140	140	140	141	141	141	140	140	140	140	140	141	40.1
25	164	165	164	163	163	163	164	165	164	165	164	163	163	163	164	165	76.2
35	186	187	186	183	184	183	186	187	186	187	186	183	184	183	186	187	116.8
45	205	206	205	201	201	201	205	206	205	206	205	201	201	201	205	206	158.0
55	219	221	219	215	215	215	219	221	219	221	219	215	215	215	219	221	195.6
65	228	231	228	224	224	224	228	231	228	231	228	224	224	224	228	231	225.3
75	231	233	231	226	225	226	231	233	231	233	231	226	225	226	231	233	242.4
85	226	229	226	221	221	221	226	229	226	229	226	221	221	221	226	229	246.2
90	226	229	226	221	221	221	226	229	226	229	226	221	221	221	226	229	
95	224	226	224	219	219	219	224	226	224	226	224	219	219	219	224	226	243.0
105	219	222	219	214	214	214	219	222	219	222	219	214	214	214	219	222	230.5
115	213	216	214	209	209	209	214	216	213	216	214	209	209	209	214	216	210.8
125	205	208	205	199	198	199	205	208	205	208	205	199	198	199	205	208	183.0
135	198	199	198	193	191	193	198	199	198	199	198	193	191	193	198	199	152.0
145	197	197	196	194	194	194	196	197	197	197	196	194	194	194	196	197	123.3
155	200	205	206	205	209	205	206	205	200	205	206	205	209	205	206	205	94.1
165	170	170	176	177	183	177	176	170	170	170	176	177	183	177	176	170	49.4
175	63	63	64	69	71	69	64	63	63	63	64	69	71	69	64	63	8.2
180	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	

### Zonal Lumen Summary

Zone	Lumens	% of Lamp	% of Luminaire
0-30	127.9	3.0%	4.9%
0-40	244.7	5.7%	9.4%
0-60	598.3	13.9%	23.0%
0-90	1312.2	30.5%	50.3%
90-180	1294.2	30.1%	49.7%
0-180	2606.4	60.6%	100.0%

Total luminaire efficiency: 60.6%

CIE Type: Direct/Indirect  
Spacing Criterion: 0 deg: 2.40 90 deg: 2.37  
180 deg: 2.40 270 deg: 2.37



Approved By: MG

THIS REPORT BASED ON LM-41 AND OTHER PERTINENT IESNA PROCEDURES.



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Candela Tabulation (5 degree Vertical Increments)

	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5
0	112	112	112	112	112	112	112	112	112	112	112	112	112	112	112	112
5	119	119	118	118	118	118	118	119	119	119	118	118	118	118	118	119
10	129	130	129	128	129	128	129	130	129	130	129	128	129	128	129	130
15	141	141	140	140	140	140	140	141	141	141	140	140	140	140	140	141
20	152	153	152	151	151	151	152	153	152	153	152	151	151	151	152	153
25	164	165	164	163	163	163	164	165	164	165	164	163	163	163	164	165
30	176	177	175	174	174	174	175	177	176	177	175	174	174	174	175	177
35	186	187	186	183	184	183	186	187	186	187	186	183	184	183	186	187
40	196	198	196	193	193	193	196	198	196	198	196	193	193	193	196	198
45	205	206	205	201	201	201	205	206	205	206	205	201	201	201	205	206
50	213	214	213	209	209	209	213	214	213	214	213	209	209	209	213	214
55	219	221	219	215	215	215	219	221	219	221	219	215	215	215	219	221
60	225	227	225	220	220	220	225	227	225	227	225	220	220	220	225	227
65	228	231	228	224	224	224	228	231	228	231	228	224	224	224	228	231
70	231	233	230	225	225	225	230	233	231	233	230	225	225	225	230	233
75	231	233	231	226	225	226	231	233	231	233	231	226	225	226	231	233
80	230	232	230	224	224	224	230	232	230	232	230	224	224	224	230	232
85	226	229	226	221	221	221	226	229	226	229	226	221	221	221	226	229
90	226	229	226	221	221	221	226	229	226	229	226	221	221	221	226	229
95	224	226	224	219	219	219	224	226	224	226	224	219	219	219	224	226
100	222	224	222	217	216	217	222	224	222	224	222	217	216	217	222	224
105	219	222	219	214	214	214	219	222	219	222	219	214	214	214	219	222
110	216	219	217	212	211	212	217	219	216	219	217	212	211	212	217	219
115	213	216	214	209	209	209	214	216	213	216	214	209	209	209	214	216
120	210	213	210	205	204	205	210	213	210	213	210	205	204	205	210	213
125	205	208	205	199	198	199	205	208	205	208	205	199	198	199	205	208
130	201	203	201	195	193	195	201	203	201	203	201	195	193	195	201	203
135	198	199	198	193	191	193	198	199	198	199	198	193	191	193	198	199
140	197	197	195	192	191	192	195	197	197	197	195	192	191	192	195	197
145	197	197	196	194	194	194	196	197	197	197	196	194	194	194	196	197
150	199	201	200	199	201	199	200	201	199	201	200	199	201	199	200	201
155	200	205	206	205	209	205	206	205	200	205	206	205	209	205	206	205
160	194	198	201	203	204	203	201	198	194	198	201	203	204	203	201	198
165	170	170	176	177	183	177	176	170	170	170	176	177	183	177	176	170
170	115	116	120	126	130	126	120	116	115	116	120	126	130	126	120	116
175	63	63	64	69	71	69	64	63	63	63	64	69	71	69	64	63
180	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36

Zonal Lumen Tabulation (5 degree zones)

Zone	Lumens	Zone	Lumens	Zone	Lumens	Zone	Lumens
0-5	2.8	45-50	84.0	90-95	122.7	135-140	72.3
5-10	8.9	50-55	93.5	95-100	120.2	140-145	65.0
10-15	16.0	55-60	102.1	100-105	117.2	145-150	58.3
15-20	24.1	60-65	109.7	105-110	113.2	150-155	51.3
20-25	33.2	65-70	115.6	110-115	108.3	155-160	42.8
25-30	43.0	70-75	119.9	115-120	102.5	160-165	31.4
30-35	53.2	75-80	122.5	120-125	95.4	165-170	18.0
35-40	63.6	80-85	123.1	125-130	87.6	170-175	6.8
40-45	74.0	85-90	123.1	130-135	79.8	175-180	1.4



Coefficients of Utilization - Zonal Cavity Method												
Effective Floor Cavity Reflectance 20%												
Ceiling Cavity Reflectance	90				80				70			
Wall Reflectance	70	50	30	10	70	50	30	10	70	50	30	10
Room Cavity Ratio (RCR)												
0	0.702	0.702	0.702	0.702	0.65	0.65	0.65	0.65	0.6	0.6	0.6	0.6
1	0.615	0.571	0.532	0.497	0.564	0.526	0.491	0.46	0.516	0.482	0.452	0.424
2	0.55	0.482	0.427	0.381	0.502	0.443	0.394	0.353	0.457	0.405	0.362	0.325
3	0.495	0.414	0.352	0.303	0.452	0.38	0.325	0.281	0.41	0.348	0.298	0.259
4	0.449	0.36	0.296	0.248	0.409	0.331	0.273	0.229	0.371	0.302	0.251	0.211
5	0.409	0.316	0.252	0.206	0.373	0.291	0.233	0.191	0.338	0.266	0.214	0.176
6	0.375	0.28	0.218	0.174	0.341	0.258	0.202	0.162	0.31	0.236	0.186	0.149
7	0.345	0.251	0.191	0.149	0.314	0.231	0.177	0.139	0.285	0.211	0.163	0.128
8	0.318	0.225	0.168	0.129	0.29	0.208	0.156	0.12	0.264	0.191	0.144	0.111
9	0.295	0.204	0.15	0.113	0.27	0.188	0.139	0.105	0.245	0.173	0.128	0.097
10	0.275	0.186	0.134	0.1	0.251	0.172	0.124	0.093	0.229	0.158	0.115	0.086

Ceiling Cavity Reflectance	50				30			10			0
Wall Reflectance	70	50	30	10	50	30	10	50	30	10	0
Room Cavity Ratio (RCR)											
0	0.506	0.506	0.506	0.506	0.421	0.421	0.421	0.342	0.342	0.342	0.305
1	0.426	0.401	0.377	0.356	0.326	0.308	0.292	0.257	0.244	0.231	0.197
2	0.374	0.335	0.301	0.272	0.27	0.244	0.222	0.209	0.19	0.173	0.143
3	0.334	0.286	0.248	0.216	0.229	0.2	0.175	0.177	0.154	0.135	0.109
4	0.301	0.249	0.208	0.176	0.199	0.168	0.142	0.153	0.129	0.109	0.085
5	0.274	0.219	0.178	0.147	0.175	0.143	0.118	0.134	0.11	0.09	0.069
6	0.252	0.195	0.154	0.124	0.156	0.124	0.1	0.12	0.095	0.076	0.057
7	0.232	0.175	0.135	0.107	0.14	0.109	0.086	0.108	0.084	0.065	0.048
8	0.215	0.158	0.12	0.092	0.127	0.097	0.074	0.098	0.074	0.057	0.041
9	0.201	0.144	0.107	0.081	0.116	0.087	0.065	0.09	0.067	0.05	0.036
10	0.188	0.132	0.096	0.072	0.107	0.078	0.058	0.083	0.06	0.044	0.031

Average Luminance Table (cd/m<sup>2</sup>)

	0	45	90
0	0	0	0
45	0	0	0
55	0	0	0
65	0	0	0
75	0	0	0
85	0	0	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.

