



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: 18380

DATE: 05-26-2010

PREPARED FOR: LUMETTA, INC.

CATALOG NUMBER: FP9032

LUMINAIRE: FORMED WHITE ENAMEL STEEL HOUSING, FORMED SPECULAR HAMMERTONE ALUMINUM UPPER REFLECTOR, TRANSLUCENT WHITE PLASTIC SIDE DIFFUSER, TRANSLUCENT WHITE LOWER LENS, OPEN TOP.

LAMP: ONE VBU 32 WATT TRIPLE TUBE COMPACT FLUORESCENT LAMP RATED AT 2400 LUMENS.

LAMP CATALOG NUMBER: SYLVANIA CF32DT/E/IN/835

BALLAST: POWER SELECT INC PS30U62H 120-277

MOUNTING: PENDANT

ELECTRICAL VALUES: 120.0VAC, 0.2788A, 33.24W

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	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	
5	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	4.9
15	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	18.7
25	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	38.7
35	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	62.6
45	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	87.5
55	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123	110.0
65	129	129	129	129	129	129	129	129	129	129	129	129	129	129	129	129	127.5
75	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	137.4
85	127	127	127	127	127	127	127	127	127	127	127	127	127	127	127	127	139.0
90	125	125	125	125	125	125	125	125	125	125	125	125	125	125	125	125	
95	127	127	127	127	127	127	127	127	127	127	127	127	127	127	127	127	139.1
105	139	139	139	139	139	139	139	139	139	139	139	139	139	139	139	139	146.4
115	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	150.5
125	175	175	175	175	175	175	175	175	175	175	175	175	175	175	175	175	157.3
135	214	214	214	214	214	214	214	214	214	214	214	214	214	214	214	214	165.3
145	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	164.9
155	325	325	325	325	325	325	325	325	325	325	325	325	325	325	325	325	145.0
165	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	61.6
175	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	10.2
180	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	

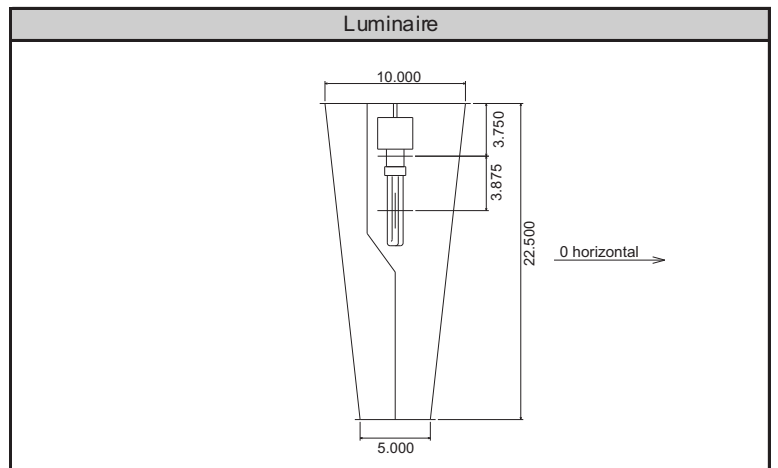
Zonal Lumen Summary

Zone	Lumens	% of Lamp	% of Luminaire
0-30	62.3	2.6%	3.3%
0-40	124.9	5.2%	6.7%
0-60	322.4	13.4%	17.3%
0-90	726.4	30.3%	38.9%
90-180	1140.3	47.5%	61.1%
0-180	1866.7	77.8%	100.0%

Total luminaire efficiency: 77.8%

CIE Type: Semi-Indirect

Spacing Criterion: 2.79



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	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47
5	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48
10	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56
15	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65
20	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74
25	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83
30	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92
35	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99
40	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106
45	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113
50	118	118	118	118	118	118	118	118	118	118	118	118	118	118	118	118
55	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123
60	126	126	126	126	126	126	126	126	126	126	126	126	126	126	126	126
65	129	129	129	129	129	129	129	129	129	129	129	129	129	129	129	129
70	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130
75	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130
80	129	129	129	129	129	129	129	129	129	129	129	129	129	129	129	129
85	127	127	127	127	127	127	127	127	127	127	127	127	127	127	127	127
90	125	125	125	125	125	125	125	125	125	125	125	125	125	125	125	125
95	127	127	127	127	127	127	127	127	127	127	127	127	127	127	127	127
100	133	133	133	133	133	133	133	133	133	133	133	133	133	133	133	133
105	139	139	139	139	139	139	139	139	139	139	139	139	139	139	139	139
110	144	144	144	144	144	144	144	144	144	144	144	144	144	144	144	144
115	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151
120	161	161	161	161	161	161	161	161	161	161	161	161	161	161	161	161
125	175	175	175	175	175	175	175	175	175	175	175	175	175	175	175	175
130	193	193	193	193	193	193	193	193	193	193	193	193	193	193	193	193
135	214	214	214	214	214	214	214	214	214	214	214	214	214	214	214	214
140	237	237	237	237	237	237	237	237	237	237	237	237	237	237	237	237
145	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260
150	299	299	299	299	299	299	299	299	299	299	299	299	299	299	299	299
155	325	325	325	325	325	325	325	325	325	325	325	325	325	325	325	325
160	287	287	287	287	287	287	287	287	287	287	287	287	287	287	287	287
165	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210
170	127	127	127	127	127	127	127	127	127	127	127	127	127	127	127	127
175	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94
180	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140

Zonal Lumen Tabulation (5 degree zones)

Zone	Lumens	Zone	Lumens	Zone	Lumens	Zone	Lumens
0-5	1.1	45-50	46.8	90-95	68.6	135-140	83.4
5-10	3.8	50-55	52.4	95-100	70.5	140-145	83.0
10-15	7.2	55-60	57.6	100-105	72.6	145-150	81.8
15-20	11.5	60-65	62.0	105-110	73.8	150-155	79.4
20-25	16.5	65-70	65.5	110-115	74.6	155-160	65.6
25-30	22.2	70-75	68.0	115-120	75.9	160-165	41.6
30-35	28.2	75-80	69.4	120-125	77.5	165-170	20.0
35-40	34.5	80-85	69.8	125-130	79.8	170-175	7.6
40-45	40.7	85-90	69.2	130-135	81.9	175-180	2.6



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	0.891	0.891	0.891	0.891	0.813	0.813	0.813	0.813	0.739	0.739	0.739	0.739
1	0.786	0.733	0.686	0.644	0.712	0.666	0.625	0.588	0.641	0.602	0.566	0.534
2	0.705	0.623	0.555	0.499	0.636	0.565	0.506	0.456	0.571	0.509	0.458	0.414
3	0.637	0.537	0.46	0.4	0.573	0.486	0.419	0.366	0.513	0.438	0.379	0.332
4	0.578	0.468	0.388	0.328	0.519	0.424	0.354	0.3	0.464	0.382	0.32	0.273
5	0.527	0.411	0.332	0.274	0.473	0.373	0.302	0.251	0.423	0.336	0.274	0.228
6	0.482	0.364	0.287	0.232	0.433	0.331	0.262	0.212	0.387	0.298	0.237	0.193
7	0.443	0.326	0.251	0.199	0.399	0.296	0.229	0.182	0.357	0.267	0.208	0.165
8	0.409	0.293	0.221	0.172	0.368	0.266	0.202	0.158	0.33	0.24	0.183	0.143
9	0.379	0.265	0.196	0.15	0.342	0.241	0.179	0.138	0.306	0.218	0.163	0.125
10	0.352	0.241	0.175	0.132	0.318	0.219	0.16	0.121	0.285	0.199	0.146	0.11

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	0.6	0.6	0.6	0.6	0.474	0.474	0.474	0.357	0.357	0.357	0.303
1	0.51	0.481	0.455	0.43	0.371	0.351	0.334	0.269	0.255	0.243	0.194
2	0.45	0.405	0.366	0.333	0.309	0.28	0.256	0.22	0.2	0.182	0.139
3	0.402	0.347	0.303	0.267	0.263	0.231	0.203	0.185	0.162	0.142	0.105
4	0.363	0.302	0.255	0.218	0.228	0.194	0.166	0.16	0.135	0.114	0.082
5	0.331	0.266	0.219	0.182	0.201	0.166	0.138	0.14	0.115	0.094	0.065
6	0.303	0.237	0.189	0.154	0.179	0.143	0.116	0.125	0.099	0.079	0.054
7	0.28	0.212	0.166	0.132	0.161	0.126	0.1	0.113	0.087	0.068	0.045
8	0.259	0.191	0.147	0.115	0.146	0.111	0.086	0.102	0.077	0.058	0.038
9	0.241	0.174	0.131	0.1	0.133	0.099	0.075	0.094	0.069	0.051	0.033
10	0.225	0.159	0.117	0.088	0.122	0.089	0.066	0.086	0.062	0.045	0.029

Average Luminance Table (cd/m²)

	0	45	90
0	1153	1153	1153
45	1164	1164	1164
55	1166	1166	1166
65	1168	1168	1168
75	1164	1164	1164
85	1159	1159	1159

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.

