

**IES INDOOR REPORT
PHOTOMETRIC FILENAME : ST4N2NML.IES**

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[ISSUE]DATE]09/22/10
[TEST]ITL65756
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
[MANUFAC]TECHNICAL CONSUMER PRODUCTS, INC.
[LUMCAT]ST4N2NML
[LUMINAIRE]FORMED WHITE PAINTED METAL HOUSING, FORMED WHITE PAINTED
[MORE]METAL SOCKET MOUNTING BRACKETS AND END CAPS, FORMED WHITE
[MORE]PAINTED METAL REFLECTOR, FORMED WHITE PAINTED PERFORATED
[MORE]METAL DIFFUSER WITH FROSTED PLASTIC OVERLAY. OVERLAY FROSTED
[MORE]SIDE UP.
[LAMP]ONE 17-WATT T-8 PHILIPS F17T8/TL841 LINEAR FLUORESCENT, RATED
[MORE]1400 LUMENS. TWO 32-WATT T-8 SYLVANIA FO32/841 LINEAR
[MORE]FLUORESCENTS, EACH RATED 2950 LUMENS.
[BALLAST]GE GE132MAX-N/ULTRA, SYLVANIA QTP2X32T8/UNV PSN-TC
[_ MOUNTING]WALL
[_ PAINTREFL]83.3 %
[OTHER]THE 0 DEGREE PLANE IS PERPENDICULAR TO THE LAMPS.
[OTHER]TOTAL INPUT WATTS = 68.8 AT 120.0 VOLTS

CHARACTERISTICS

Total Rated Lamp Lumens	7300
Total Luminaire Efficiency	35.7 %
Luminaire Efficacy Rating (LER)	38
Total Luminaire Watts	69
Ballast Factor	1.00
CIE Type	General Diffuse
Spacing Criteria (0-180)	N.A.
Spacing Criteria (90-270)	N.A.
Spacing Criteria (Diagonal)	N.A.
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.11 ft
Luminous Width (90-270)	3.93 ft
Luminous Height	0.49 ft



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LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4112	3312	2011
55	4319	3394	1307
65	4486	3463	712
75	4645	3548	63
85	4797	3676	0

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>
0.0	156	156	156	156	156	156	156	156	156
2.5	182	180	176	167	157	147	139	135	133
5.0	202	197	190	174	156	139	123	116	109
7.5	222	217	202	181	154	130	108	98	93
10.0	253	239	216	186	152	120	92	80	75
12.5	281	266	232	190	149	110	80	66	61
15.0	307	290	249	195	146	102	69	55	51
17.5	337	314	266	196	141	91	58	46	42
20.0	362	340	282	199	137	82	50	38	32
22.5	392	361	297	203	130	72	43	28	24
25.0	418	385	308	208	125	62	35	20	16
27.5	446	409	320	211	119	54	27	14	8
30.0	477	434	334	214	112	47	21	8	6
32.5	505	458	346	214	106	41	15	5	4
35.0	537	482	359	213	97	36	9	4	2
37.5	564	508	371	213	91	29	6	2	0
40.0	594	531	382	211	83	25	4	2	0
42.5	622	557	395	207	75	20	2	1	0
45.0	647	580	406	205	67	15	2	0	0
47.5	675	602	418	201	59	12	1	0	0
50.0	697	624	428	196	51	8	0	0	0
52.5	723	644	437	193	45	4	0	0	0
55.0	743	664	447	188	37	2	0	0	0
57.5	762	682	452	183	31	0	0	0	0
60.0	780	699	461	177	25	0	0	0	0
62.5	798	713	467	172	20	0	0	0	0
65.0	814	727	474	167	16	0	0	0	0
67.5	830	739	479	162	11	0	0	0	0
70.0	844	749	484	157	9	0	0	0	0
72.5	851	756	485	150	5	0	0	0	0
75.0	861	764	489	146	1	0	0	0	0
77.5	867	769	492	143	0	0	0	0	0
80.0	873	774	493	139	0	0	0	0	0
82.5	877	776	494	138	0	0	0	0	0
85.0	881	778	495	136	0	0	0	0	0
87.5	883	779	495	135	0	0	0	0	0
90.0	884	781	497	135	0	0	0	0	0
92.5	885	783	499	135	0	0	0	0	0
95.0	883	780	498	137	0	0	0	0	0
97.5	879	777	496	138	0	0	0	0	0
100.0	873	770	494	141	0	0	0	0	0
102.5	861	763	491	143	1	0	0	0	0
105.0	851	756	487	147	3	0	0	0	0
107.5	842	747	485	152	7	0	0	0	0
110.0	828	737	479	158	10	0	0	0	0
112.5	814	723	473	161	13	0	0	0	0
115.0	796	710	467	166	17	0	0	0	0
117.5	778	694	459	171	21	0	0	0	0
120.0	758	677	452	175	26	2	0	0	0
122.5	737	659	446	181	32	4	0	0	0
125.0	717	641	435	185	37	6	0	0	0
127.5	693	620	427	189	44	9	0	0	0
130.0	667	597	416	192	50	12	2	0	0
132.5	640	574	402	194	55	15	3	0	0

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CANDELA TABULATION - (Cont.)

135.0	612	552	391	197	63	18	4	1	0
137.5	586	526	378	198	69	21	4	2	0
140.0	556	503	366	201	78	26	7	4	2
142.5	531	477	353	202	85	30	10	4	4
145.0	497	454	341	202	92	35	15	6	4
147.5	471	429	327	202	98	40	20	8	8
150.0	440	404	312	200	105	48	26	14	10
152.5	412	382	299	197	110	55	32	20	16
155.0	382	354	284	190	117	63	36	26	22
157.5	356	333	272	189	123	74	44	35	32
160.0	329	308	259	187	129	83	52	42	38
162.5	299	284	243	184	133	92	63	48	44
165.0	275	261	225	179	137	100	74	58	55
167.5	249	233	209	174	140	109	86	72	65
170.0	212	210	193	169	142	117	99	88	83
172.5	196	189	180	163	145	126	112	103	99
175.0	172	170	165	156	145	135	125	120	117
177.5	152	153	153	149	146	141	139	135	135
180.0	145	145	145	145	145	145	145	145	145

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	139.55	1.9	5.4
0-40	255.26	3.5	9.8
0-60	601.62	8.2	23.1
0-90	1317.8	18.1	50.6
90-120	711.4	9.7	27.3
90-130	897.82	12.3	34.5
90-150	1155.97	15.8	44.4
90-180	1286.94	17.6	49.4
0-180	2604.74	35.7	100

Total Luminaire Efficiency = 35.7%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	14.91
10-20	45.65
20-30	78.99
30-40	115.7
40-50	154.86
50-60	191.5
60-70	221.98
70-80	242.05
80-90	252.15
90-100	252.81
100-110	240.65
110-120	217.93
120-130	186.43
130-140	148.28
140-150	109.87
150-160	74.41
160-170	42.68
170-180	13.88

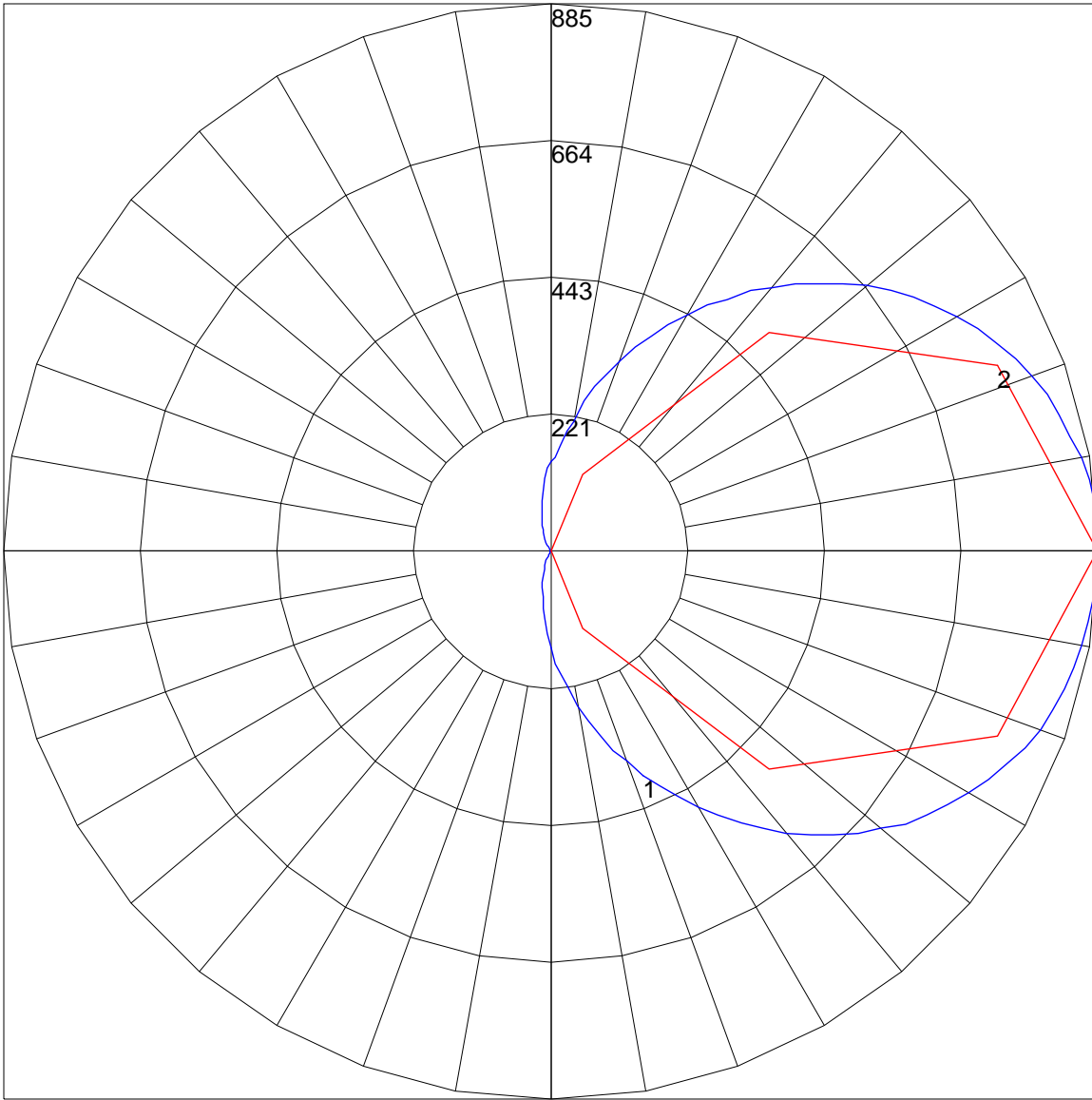
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	
0	38	38	38	38	35	35	35	35	30	30	30	25	25	25	20	20	20	18
1	33	31	29	27	30	28	27	25	24	22	21	19	18	17	15	14	14	12
2	30	26	23	21	27	24	21	19	20	18	16	16	14	13	12	11	10	8
3	27	22	19	17	24	20	18	15	17	15	13	14	12	10	10	9	8	6
4	24	20	16	14	22	18	15	12	15	12	10	12	10	8	9	8	7	5
5	22	17	14	11	20	16	13	10	13	11	9	10	9	7	8	7	5	4
6	20	15	12	10	18	14	11	9	12	9	7	9	7	6	7	6	5	3
7	19	14	10	8	17	13	10	8	10	8	6	8	7	5	6	5	4	3
8	17	12	9	7	16	11	9	7	9	7	6	8	6	4	6	4	3	3
9	16	11	8	6	15	10	8	6	9	6	5	7	5	4	5	4	3	2
10	15	10	7	6	14	9	7	5	8	6	4	6	5	3	5	4	3	2

POLAR GRAPH



Maximum Candela = 885 Located At Horizontal Angle = 0, Vertical Angle = 92.5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (92.5) (Through Max. Cd.)