



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	567	567	567	567	567	567	567	567	567	567	567	567	567	567	567	567
5	562	561	564	561	562	561	564	561	562	561	564	561	562	561	564	561
10	553	552	556	552	553	552	556	552	553	552	556	552	553	552	556	552
15	542	541	545	542	543	542	545	541	542	541	545	542	543	542	545	541
20	524	522	525	523	524	523	525	522	524	522	525	523	524	523	525	522
25	499	499	502	501	502	501	502	499	499	499	502	501	502	501	502	499
30	471	471	476	474	476	474	476	471	471	471	476	474	476	474	476	471
35	439	440	444	444	445	444	444	440	439	440	444	444	445	444	444	440
40	404	406	410	411	413	411	410	406	404	406	410	411	413	411	410	406
45	367	368	373	375	378	375	373	368	367	368	373	375	378	375	373	368
50	328	330	335	339	341	339	335	330	328	330	335	339	341	339	335	330
55	285	288	294	300	303	300	294	288	285	288	294	300	303	300	294	288
60	242	245	253	259	262	259	253	245	242	245	253	259	262	259	253	245
65	196	201	210	218	221	218	210	201	196	201	210	218	221	218	210	201
70	150	156	166	174	177	174	166	156	150	156	166	174	177	174	166	156
75	105	112	122	131	134	131	122	112	105	112	122	131	134	131	122	112
80	63	71	80	89	92	89	80	71	63	71	80	89	92	89	80	71
85	28	35	44	53	56	53	44	35	28	35	44	53	56	53	44	35
90	10	16	24	31	34	31	24	16	10	16	24	31	34	31	24	16
95	7	8	15	21	24	21	15	8	7	8	15	21	24	21	15	8
100	4	3	6	12	14	12	6	3	4	3	6	12	14	12	6	3
105	2	1	0	4	6	4	0	1	2	1	0	4	6	4	0	1
110	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
115	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
125	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
130	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
135	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
140	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
145	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
150	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
155	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
160	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
165	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
170	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
175	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
180	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Zonal Lumen Tabulation (5 degree zones)

Zone	Lumens	Zone	Lumens	Zone	Lumens	Zone	Lumens
0-5	13.5	45-50	142.6	90-95	10.4	135-140	0.0
5-10	39.9	50-55	136.8	95-100	6.0	140-145	0.0
10-15	65.0	55-60	126.1	100-105	2.5	145-150	0.0
15-20	87.9	60-65	112.3	105-110	0.4	150-155	0.0
20-25	107.4	65-70	94.9	110-115	0.0	155-160	0.0
25-30	123.3	70-75	74.8	115-120	0.0	160-165	0.0
30-35	135.0	75-80	53.6	120-125	0.0	165-170	0.0
35-40	141.9	80-85	33.0	125-130	0.0	170-175	0.0
40-45	144.7	85-90	17.2	130-135	0.0	175-180	0.0



Utilization of Lumens - 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)	** Values are expressed as Lumens delivered to the task surface **											
0	2033	2033	2033	2033	1982	1982	1982	1982	1934	1934	1934	1934
1	1851	1757	1675	1600	1800	1716	1640	1572	1752	1675	1607	1544
2	1681	1524	1396	1289	1632	1489	1371	1271	1586	1456	1347	1254
3	1532	1334	1182	1063	1485	1304	1164	1052	1442	1276	1146	1041
4	1401	1178	1017	896.1	1358	1153	1003	888.6	1318	1130	989.5	881.2
5	1288	1050	887.3	768.6	1248	1029	876.3	763.3	1211	1009	865.5	758.1
6	1188	943.7	782.9	669	1152	926	774.1	665.1	1119	908.9	765.5	661.3
7	1100	854.1	697.7	589.6	1068	839	690.6	586.6	1038	824.4	683.6	583.7
8	1023	778.3	627.3	525	994	765.3	621.5	522.7	966.4	752.7	615.7	520.4
9	954.9	713.4	568.4	471.7	928.6	702.2	563.5	469.9	903.6	691.3	558.8	468.1
10	894.4	657.5	518.5	427.2	870.5	647.8	514.5	425.7	847.9	638.3	510.4	424.3

Ceiling Cavity Reflectance	50				30			10			0
Wall Reflectance	70	50	30	10	50	30	10	50	30	10	0
Room Cavity Ratio (RCR)	** Values are expressed as Lumens delivered to the task surface **										
0	1844	1844	1844	1844	1761	1761	1761	1685	1685	1685	1650
1	1663	1600	1544	1492	1531	1485	1442	1468	1431	1396	1359
2	1500	1393	1301	1222	1335	1258	1191	1281	1218	1161	1123
3	1361	1223	1112	1020	1174	1079	999.5	1128	1048	979.7	941.5
4	1244	1085	963.1	866.6	1043	937.9	852.5	1005	913.8	838.8	801.1
5	1143	971.3	844.7	747.7	935.9	824.8	737.6	902.9	805.7	727.8	691.1
6	1057	876.5	748.9	653.7	846.3	732.8	646.2	818	717.4	638.8	603.4
7	981.4	796.7	670.1	577.9	770.7	657	572.2	746.3	644.4	566.6	532.6
8	915.6	728.8	604.5	515.9	706.4	593.7	511.4	685.2	583.3	507	474.5
9	857.6	670.6	549.4	464.5	651.1	540.4	460.9	632.7	531.6	457.4	426.4
10	806.2	620.3	502.6	421.4	603.2	494.9	418.5	587.1	487.5	415.6	386

Average Luminance Table (cd/m²)

	0	45	90
0	16532	16532	16532
45	14342	13988	14322
55	13456	13101	13693
65	12142	11958	12847
75	9854	10021	11425
85	5692	6943	9343

THIS TEST WAS CONDUCTED USING PHOTOMETRY TECHNIQUES ACCORDING TO STANDARD IES 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) 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.

