



IES INDOOR REPORT

PHOTOMETRIC FILENAME : HZCAS100HTLOWT50120-277V_P.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]

[TESTLAB]

[TESTDATE] 26 September 2022

[ISSUEDATE] 2022-11-02 16:35:20

[NEARFIELD]

[LAMPPOSITION] 0,0

[OTHER]

[MANUFAC] BEGHELLI

[LUMCAT] HZCAS100HTLOWT50120-277V_P

[LUMINAIRE] LED

[BALLAST] 100-277VAc 50/60Hz

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1040
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	104
Total Luminaire Watts	10
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.84
Spacing Criterion (90-270)	0.92
Spacing Criterion (Diagonal)	1.42
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.09 m
Luminous Width (90-270)	0.09 m
Luminous Height	0.15 m

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	15785	16314	14878
55	9089	10728	11475
65	6572	7539	6747
75	2423	2382	2745
85	1345	1013	2053

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PHOTOMETRIC FILENAME : HZCAS100HTLOWT50120-277V_P.IES

CANDELA TABULATION

	0	15	30	45	60	75	90	105	120	135
0	386.851	386.851	386.851	386.851	386.851	386.851	386.851	386.851	386.851	386.851
1	385.938	380.782	376.496	378.758	381.195	382.747	385.938	387.478	393.151	396.667
2	385.129	375.974	373.547	371.770	374.923	380.870	394.675	403.594	410.262	413.244
3	396.892	386.438	374.571	370.978	373.151	379.957	397.459	413.547	428.441	427.670
4	403.043	398.851	393.597	381.091	377.162	386.290	399.423	422.218	436.468	436.061
5	403.511	393.454	389.041	391.000	383.423	387.121	407.098	427.709	430.889	437.959
6	397.646	391.462	392.414	417.167	401.343	392.914	416.226	432.875	429.261	437.591
7	384.260	394.488	420.474	484.275	482.663	422.267	416.584	435.489	432.490	436.765
8	377.041	390.394	432.765	518.008	535.102	460.693	396.287	418.906	454.685	451.362
9	370.153	386.290	432.677	524.748	535.532	459.560	398.570	402.488	451.747	462.361
10	364.678	374.378	433.536	511.004	522.464	445.574	392.210	377.712	451.516	467.406
11	355.006	363.182	429.150	487.626	506.701	424.039	375.143	364.513	447.505	458.058
12	342.797	353.371	428.424	472.528	485.887	410.251	357.905	356.997	440.963	448.468
13	318.269	338.549	406.735	451.324	465.491	397.767	345.658	362.081	442.619	438.141
14	297.482	316.046	385.800	418.620	439.153	383.968	338.290	356.931	427.115	435.313
15	274.946	290.230	351.099	376.040	407.473	377.239	335.875	358.010	429.343	436.848
16	261.235	275.749	321.058	343.248	367.963	369.454	321.443	361.360	421.547	420.408
17	251.573	270.231	296.552	297.383	330.004	335.925	299.441	351.275	410.378	401.696
18	248.828	273.647	292.970	266.352	285.620	304.426	278.269	341.427	386.163	380.727
19	248.762	276.685	294.307	274.247	278.891	280.745	266.489	334.335	372.782	363.380
20	246.919	279.881	301.317	283.568	289.218	279.606	262.820	329.163	360.992	346.356
21	247.276	278.236	307.314	296.354	304.827	283.881	267.205	329.597	352.018	329.839
22	247.937	277.383	311.903	306.263	312.657	292.970	273.235	321.564	334.280	309.741
23	244.718	273.328	312.673	314.665	324.161	298.764	266.577	320.348	325.471	299.386
24	241.323	267.920	307.116	321.542	332.029	298.236	260.734	301.444	304.613	284.448
25	238.666	262.776	300.723	322.417	333.361	297.284	248.993	272.630	283.458	269.499
26	238.913	260.998	298.225	307.749	330.593	283.601	238.616	255.683	273.394	265.196
27	238.457	263.062	295.523	301.251	317.234	266.258	235.233	252.173	281.603	274.297
28	243.783	270.643	302.538	301.983	306.368	253.461	238.358	259.568	284.954	277.774
29	248.289	280.288	312.596	307.738	311.826	254.330	236.834	258.765	291.600	282.352
30	248.459	286.654	323.886	313.697	319.292	258.990	237.158	265.147	298.192	284.420
31	245.681	287.980	327.694	316.893	321.691	260.410	235.359	267.782	305.400	285.631
32	238.726	287.457	319.611	313.691	321.075	260.707	234.589	276.343	310.043	289.037
33	228.548	275.017	303.578	302.759	309.757	252.250	226.011	274.390	305.812	285.185
34	215.288	253.164	280.035	280.811	289.884	239.942	217.048	268.833	302.291	278.907
35	204.476	236.883	262.110	264.712	274.434	226.842	205.164	255.161	289.741	272.035
36	199.084	224.195	249.549	251.452	262.396	217.224	199.503	245.917	275.859	264.817
37	192.999	214.066	241.065	242.528	250.589	210.864	191.139	240.421	267.832	255.496
38	188.812	211.761	234.578	235.750	238.721	202.072	185.005	234.286	262.346	250.743
39	185.599	208.218	234.990	233.076	231.288	194.996	179.888	226.853	251.568	242.539
40	186.210	208.828	233.378	235.233	226.160	190.424	173.880	219.508	242.545	239.265
41	192.229	211.530	235.992	237.582	228.151	189.538	173.330	208.696	234.055	232.988
42	202.567	224.702	244.916	250.858	238.594	190.380	174.997	206.149	228.096	230.105
43	212.273	237.230	257.741	262.242	248.212	199.425	182.397	209.896	237.004	233.296
44	218.446	248.927	270.594	275.804	261.923	211.013	195.112	226.308	249.890	247.007
45	218.297	256.135	278.610	284.536	273.504	221.268	205.764	242.149	265.361	257.428
46	211.684	256.547	279.815	288.343	283.166	232.239	214.336	257.455	275.469	272.217
47	201.626	248.179	275.628	285.202	281.438	235.794	213.571	262.302	280.497	275.733
48	189.516	235.942	260.201	273.273	276.299	231.964	210.875	263.942	278.055	274.379
49	177.329	221.989	244.173	256.883	263.227	225.224	201.879	253.004	267.309	263.007
50	167.772	210.578	232.003	244.014	251.139	213.225	191.574	242.765	255.309	250.814
51	158.507	202.209	220.608	234.396	240.641	204.680	185.197	232.399	242.781	238.495
52	149.011	190.930	211.519	222.638	229.021	195.299	177.687	223.590	233.318	232.091
53	142.892	182.353	202.710	213.021	220.311	189.406	174.518	215.640	227.040	225.582

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HZCAS100HTLOWT50120-277V_P.IES

CANDELA TABULATION - (Cont.)

54	135.223	172.020	194.710	205.357	214.506	185.726	168.906	210.325	222.688	221.433
55	129.490	164.851	187.679	197.709	208.174	180.185	163.481	203.679	218.138	216.141
56	123.316	154.826	179.734	191.591	202.265	171.932	156.592	195.987	212.471	204.872
57	119.591	150.012	173.164	182.402	192.697	163.789	150.276	188.229	202.226	197.076
58	115.085	145.099	167.563	178.953	183.657	153.104	143.509	176.900	188.906	189.153
59	112.367	141.027	163.200	175.123	174.969	147.608	134.771	169.770	180.036	180.647
60	109.963	139.564	160.598	172.042	167.822	137.192	126.452	159.910	168.394	171.701
61	107.927	139.162	160.037	168.015	161.170	132.851	123.217	152.147	159.740	162.887
62	105.963	137.484	158.584	163.800	157.968	127.921	116.962	146.210	154.117	155.503
63	102.541	136.400	154.672	157.170	148.802	121.990	110.145	140.912	147.261	147.355
64	98.926	135.630	147.272	150.595	144.268	116.334	104.202	133.033	138.122	141.231
65	93.512	129.710	138.524	142.166	135.355	109.545	96.004	123.872	129.440	131.261
66	87.047	119.250	127.338	129.594	124.774	100.021	86.453	113.424	120.285	119.140
67	80.984	107.878	112.703	115.801	110.706	89.011	76.010	101.688	105.853	104.345
68	76.934	99.834	102.590	102.942	96.610	78.497	65.837	87.130	89.721	89.182
69	72.632	92.874	94.194	92.505	85.870	67.108	54.396	69.595	74.172	73.270
70	67.856	86.007	86.519	83.939	75.245	56.109	50.349	58.041	64.192	62.998
71	62.129	78.459	77.309	73.908	65.089	52.015	46.341	55.669	59.994	61.001
72	55.163	68.742	67.526	62.321	56.236	48.074	42.333	54.338	57.457	58.800
73	47.908	57.287	57.017	51.690	51.919	44.133	40.494	52.131	55.295	56.786
74	40.647	50.650	51.185	48.107	49.276	42.451	39.175	50.640	53.840	55.042
75	33.386	44.128	45.504	44.572	46.635	40.957	37.824	49.166	51.397	53.480
76	30.334	37.606	39.823	41.037	43.994	39.356	36.939	47.691	49.866	51.835
77	28.975	35.887	37.986	38.863	41.947	38.164	36.396	46.130	48.365	49.571
78	27.656	34.033	35.962	36.608	39.881	36.478	35.786	45.511	46.864	47.295
79	26.667	32.828	33.877	34.326	38.148	35.274	35.519	45.305	46.069	46.063
80	25.595	31.313	31.262	31.972	36.135	33.799	34.972	44.200	44.894	44.327
81	23.830	28.778	28.212	29.035	33.849	32.512	33.605	42.614	43.305	42.416
82	22.232	26.664	25.266	26.487	31.513	30.940	31.393	40.099	40.854	39.069
83	20.856	24.757	22.827	23.488	28.633	28.300	29.110	37.526	38.558	36.036
84	19.343	21.741	20.015	20.406	25.753	25.970	27.277	35.324	36.017	33.388
85	17.373	19.022	17.906	18.241	23.454	24.444	26.506	33.687	34.104	31.025
86	15.953	17.242	15.746	15.891	21.812	23.295	23.955	30.885	31.412	28.608
87	14.496	15.360	14.386	14.888	20.697	21.460	22.618	29.406	29.624	26.833
88	13.774	14.612	14.232	14.112	18.736	20.141	21.357	27.701	27.586	25.198
89	13.513	14.104	13.506	12.727	17.142	19.011	20.356	25.758	25.594	23.046
90	12.915	13.405	12.793	12.440	16.580	17.842	18.200	23.178	22.496	20.438
91	12.661	13.425	12.799	12.404	15.739	16.683	17.542	22.160	21.240	19.044
92	12.901	13.537	12.773	11.987	14.887	16.225	17.103	21.684	20.547	18.674
93	13.241	13.653	12.233	11.510	14.298	15.858	16.636	20.822	19.811	17.972
94	12.397	12.636	11.785	11.378	13.986	15.508	16.295	20.157	19.062	17.676
95	12.201	12.520	11.718	11.163	13.402	14.806	15.891	19.489	18.352	17.208
96	12.050	12.483	11.716	11.184	13.145	14.384	15.435	18.712	17.628	16.646
97	11.984	12.428	11.720	11.290	12.928	14.110	15.050	18.173	17.074	16.112
98	11.894	12.316	11.748	11.374	12.713	13.830	14.769	17.672	16.592	15.833
99	11.850	12.264	11.790	11.428	12.570	13.617	14.441	17.203	16.101	15.564
100	11.871	12.288	11.880	11.624	12.607	13.566	14.187	16.761	15.762	15.237
101	11.972	12.326	11.977	11.857	12.632	13.562	13.959	16.397	15.428	14.953
102	12.028	12.368	12.043	12.017	12.750	13.560	13.775	16.089	15.212	14.795
103	12.077	12.427	12.190	12.064	12.741	13.440	13.594	15.814	14.959	14.643
104	12.152	12.524	12.306	12.132	12.739	13.303	13.446	15.446	14.746	14.576
105	12.250	12.672	12.448	12.223	12.772	13.286	13.326	15.132	14.567	14.269
106	12.383	12.821	12.597	12.329	12.761	13.264	13.264	14.951	14.364	13.671
107	12.457	12.918	12.729	12.481	12.789	13.244	13.131	14.639	13.831	12.882
108	12.486	12.937	12.755	12.590	12.795	13.297	12.883	14.093	13.097	12.788
109	12.432	12.786	12.655	12.564	12.835	13.298	12.244	13.150	12.905	13.077

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HZCAS100HTLOWT50120-277V_P.IES

CANDELA TABULATION - (Cont.)

110	12.314	12.674	12.469	12.409	12.767	13.218	12.190	13.105	13.029	13.241
111	12.175	12.649	12.372	12.253	12.660	13.069	12.140	13.085	13.071	13.185
112	12.052	12.627	12.407	12.229	12.640	13.002	12.075	12.908	12.829	12.927
113	11.945	12.709	12.612	12.367	12.669	13.041	11.991	12.817	12.661	12.557
114	11.961	12.820	12.928	12.682	12.846	13.062	11.884	12.826	12.561	12.353
115	12.017	12.946	13.271	13.045	13.157	13.157	11.877	12.894	12.620	12.344
116	12.134	13.118	13.519	13.271	13.420	13.360	11.895	13.055	12.881	12.570
117	12.331	13.334	13.744	13.483	13.632	13.527	11.962	13.291	13.244	12.959
118	12.504	13.492	13.931	13.684	13.796	13.735	12.046	13.572	13.589	13.338
119	12.651	13.610	14.099	13.883	13.944	13.926	12.200	13.798	13.925	13.600
120	12.729	13.688	14.213	14.041	13.987	14.070	12.363	13.964	14.080	13.767
121	12.793	13.772	14.333	14.200	14.116	14.174	12.494	14.092	14.164	13.932
122	12.848	13.921	14.428	14.375	14.228	14.234	12.634	14.210	14.337	14.065
123	12.899	14.010	14.468	14.497	14.315	14.246	12.726	14.333	14.474	14.177
124	12.882	14.094	14.506	14.562	14.304	14.203	12.770	14.448	14.555	14.350
125	12.795	14.240	14.571	14.644	14.362	14.167	12.716	14.453	14.549	14.474
126	12.699	14.270	14.642	14.654	14.328	14.027	12.566	14.381	14.483	14.548
127	12.634	14.185	14.589	14.630	14.317	13.857	12.380	14.332	14.524	14.612
128	12.602	14.120	14.532	14.525	14.284	13.743	12.293	14.295	14.567	14.535
129	12.678	14.115	14.547	14.497	14.267	13.679	12.247	14.324	14.654	14.523
130	12.680	14.113	14.593	14.467	14.289	13.643	12.208	14.306	14.556	14.395
131	12.683	14.165	14.655	14.512	14.255	13.625	12.153	14.225	14.428	14.150
132	12.686	14.239	14.672	14.515	14.217	13.671	12.065	14.195	14.346	13.986
133	12.689	14.217	14.609	14.441	14.198	13.665	11.997	14.212	14.269	13.992
134	12.692	14.105	14.423	14.283	14.166	13.658	11.984	14.246	14.339	14.061
135	12.743	14.051	14.209	13.999	14.209	13.614	11.998	14.094	14.324	14.057
136	12.807	14.017	14.169	13.864	14.180	13.512	12.049	13.920	14.317	14.003
137	12.856	14.006	14.196	13.855	14.055	13.433	12.107	13.741	14.265	14.028
138	12.936	13.968	14.156	13.883	13.888	13.381	12.133	13.652	14.231	14.003
139	13.047	13.994	14.138	13.921	13.893	13.365	12.203	13.647	14.207	14.040
140	13.126	13.981	14.102	13.878	13.945	13.392	12.239	13.645	14.163	14.063
141	13.166	13.905	14.016	13.779	13.896	13.361	12.270	13.583	14.124	14.065
142	13.131	13.803	13.871	13.664	13.752	13.276	12.214	13.414	13.961	13.961
143	13.053	13.636	13.712	13.533	13.566	13.113	12.127	13.155	13.779	13.831
144	12.937	13.467	13.551	13.406	13.343	12.955	12.071	13.037	13.632	13.719
145	12.798	13.324	13.401	13.310	13.096	12.776	11.991	12.833	13.428	13.599
146	12.600	13.175	13.173	13.185	12.822	12.547	11.777	12.591	13.204	13.430
147	12.415	12.934	12.969	13.027	12.620	12.370	11.512	12.431	13.041	13.285
148	12.320	12.662	12.744	12.854	12.428	12.095	11.214	12.185	12.843	13.097
149	12.239	12.472	12.603	12.625	12.322	11.882	11.016	12.052	12.651	12.926
150	12.154	12.482	12.537	12.426	12.351	11.746	10.931	12.025	12.464	12.787
151	11.977	12.477	12.365	12.156	12.195	11.668	11.177	11.931	12.195	12.594
152	11.757	12.269	12.148	11.852	11.894	11.543	11.279	11.830	12.043	12.293
153	11.496	11.763	11.869	11.658	11.540	11.430	11.110	11.387	11.690	12.064
154	11.231	11.301	11.411	11.321	11.165	11.187	10.732	11.078	11.347	11.587
155	10.970	10.813	10.919	10.920	10.744	10.709	10.086	10.696	10.888	11.046
156	10.667	10.327	10.382	10.498	10.287	10.207	9.670	10.224	10.383	10.564
157	10.295	9.847	9.762	9.925	9.812	9.784	9.373	9.814	9.932	10.047
158	9.692	9.283	9.182	9.258	9.248	9.428	9.141	9.370	9.430	9.528
159	9.012	8.709	8.663	8.688	8.734	9.037	8.852	8.814	8.878	8.926
160	8.443	8.207	8.166	8.146	8.214	8.566	8.365	8.391	8.350	8.280
161	7.964	7.750	7.690	7.605	7.684	8.062	7.876	8.041	7.909	7.702
162	7.463	7.260	7.186	7.068	7.219	7.639	7.518	7.680	7.551	7.205
163	6.981	6.782	6.586	6.643	6.808	7.110	7.215	7.356	7.252	6.785
164	6.544	6.364	5.948	6.275	6.431	6.532	6.917	7.074	6.882	6.454
165	6.064	5.955	5.352	5.811	5.957	5.855	6.557	6.723	6.426	6.140

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166	5.128	5.156	4.757	5.151	5.253	5.190	6.058	6.248	5.950	5.800
167	4.181	4.355	4.161	4.489	4.545	4.486	5.216	5.611	5.307	5.305
168	3.234	3.553	3.474	3.828	3.836	3.753	4.367	4.778	4.661	4.809
169	2.331	2.607	2.725	3.040	3.035	3.019	3.518	3.940	4.016	4.312
170	1.549	1.796	1.934	2.224	2.267	2.285	2.648	2.967	3.135	3.394
171	1.022	1.171	1.354	1.550	1.598	1.599	1.822	2.073	2.245	2.506
172	0.632	0.779	0.925	1.082	1.126	1.051	1.222	1.420	1.565	1.780
173	0.472	0.543	0.639	0.711	0.763	0.753	0.788	0.911	1.093	1.259
174	0.445	0.456	0.491	0.495	0.529	0.551	0.536	0.593	0.725	0.814
175	0.457	0.463	0.463	0.460	0.458	0.459	0.456	0.462	0.496	0.515
176	0.466	0.472	0.471	0.468	0.464	0.457	0.458	0.463	0.464	0.460
177	0.476	0.480	0.479	0.476	0.472	0.463	0.463	0.468	0.468	0.465
178	0.487	0.489	0.487	0.484	0.478	0.469	0.467	0.473	0.473	0.470
179	0.497	0.497	0.494	0.490	0.483	0.476	0.472	0.478	0.477	0.475
180	0.507	0.507	0.507	0.507	0.507	0.507	0.507	0.507	0.507	0.507

Vert. Angles	Horizontal Angles									
	<u>150</u>	<u>165</u>	<u>180</u>	<u>195</u>	<u>210</u>	<u>225</u>	<u>240</u>	<u>255</u>	<u>270</u>	<u>285</u>
0	386.851	386.851	386.851	386.851	386.851	386.851	386.851	386.851	386.851	386.851
1	401.057	404.474	403.077	401.167	396.788	395.605	398.367	398.796	393.316	389.641
2	416.898	415.913	402.922	407.451	402.708	402.620	404.292	403.946	403.236	401.833
3	435.098	420.320	403.836	404.997	404.513	412.193	416.243	415.021	408.590	401.464
4	443.538	423.175	417.981	408.303	414.323	428.380	427.065	422.372	413.052	417.019
5	437.530	430.042	427.577	420.144	433.585	436.529	420.842	405.739	401.173	413.811
6	438.025	441.376	434.845	443.780	460.671	430.818	396.590	381.641	378.130	393.635
7	434.009	424.996	431.621	469.200	487.422	421.910	376.992	359.748	356.634	387.896
8	408.435	405.899	414.653	469.304	484.880	417.233	371.275	348.200	354.213	391.869
9	396.381	372.089	400.722	456.028	465.854	416.061	353.812	336.667	341.498	402.158
10	385.024	359.055	382.719	438.531	444.391	411.016	353.828	330.857	332.057	387.093
11	374.477	346.532	370.934	434.697	434.146	413.745	342.274	317.911	316.981	362.945
12	376.970	342.153	374.708	430.576	410.207	390.780	328.442	306.203	298.126	343.627
13	388.485	340.431	359.853	417.123	382.697	359.033	321.520	290.869	283.832	328.579
14	394.213	329.949	343.523	393.943	356.986	338.681	312.145	274.055	267.485	312.497
15	395.418	322.043	325.614	375.368	337.823	320.574	303.138	257.813	250.286	300.574
16	390.378	303.683	308.404	359.759	334.681	309.900	300.277	245.252	241.296	292.041
17	371.743	291.199	296.893	351.336	323.127	304.288	298.241	237.312	239.161	287.468
18	353.201	272.151	281.301	342.901	316.585	297.455	291.468	236.806	238.429	271.271
19	338.268	260.877	273.912	327.072	313.702	292.283	285.042	236.652	237.417	266.583
20	323.242	253.307	266.297	324.789	305.141	290.164	277.350	237.378	240.773	269.169
21	313.080	254.445	265.571	309.157	288.409	284.657	272.118	241.791	243.497	276.261
22	301.774	252.971	256.256	302.720	284.112	290.462	273.257	245.824	248.245	282.665
23	294.082	251.342	259.144	298.742	284.833	294.786	275.012	246.677	246.930	284.305
24	286.836	259.238	263.370	299.760	287.595	298.307	272.685	248.778	249.994	289.851
25	282.885	260.525	264.734	290.781	289.504	305.069	277.669	249.983	249.714	289.262
26	275.535	253.488	262.963	293.147	300.893	313.284	278.731	250.941	244.861	288.690
27	274.742	249.384	259.029	294.131	302.847	318.654	282.005	246.203	239.937	288.063
28	273.741	247.155	259.546	292.690	304.772	322.054	286.599	247.854	234.358	289.631
29	272.861	245.653	254.765	301.389	307.677	325.674	289.719	243.155	229.609	286.671
30	280.338	244.003	249.901	308.574	310.516	325.801	292.734	239.188	229.356	288.420
31	287.722	241.648	248.008	315.886	314.274	326.181	299.342	237.862	232.377	291.380
32	292.838	236.608	241.208	317.851	316.007	319.617	301.146	236.614	227.156	286.082
33	287.766	232.069	233.978	314.175	308.046	308.002	299.188	227.508	216.575	268.195
34	281.746	221.956	223.744	299.545	293.834	293.317	283.793	217.500	203.387	251.678
35	271.194	214.517	215.326	287.760	285.537	277.851	269.053	203.723	194.903	243.651
36	262.996	207.431	207.183	274.500	274.599	264.839	257.257	193.797	189.076	236.074

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HZCAS100HTLOWT50120-277V_P.IES

CANDELA TABULATION - (Cont.)

37	256.910	201.835	198.947	260.756	264.206	254.044	243.508	185.549	185.847	226.765
38	246.358	194.122	191.178	244.162	246.743	243.282	231.915	181.847	184.559	220.410
39	240.443	187.811	183.794	230.396	235.205	235.766	224.493	179.470	182.694	212.366
40	232.823	182.815	180.664	223.002	226.952	233.021	220.344	180.020	183.926	214.853
41	227.519	182.204	176.246	224.729	231.326	235.805	225.125	186.012	188.658	221.252
42	230.193	183.338	181.830	233.923	238.182	243.931	235.552	194.078	203.079	240.041
43	239.810	190.611	188.207	242.011	249.334	253.400	248.690	204.757	212.795	254.044
44	252.448	198.749	195.723	252.949	260.129	266.341	263.733	213.819	220.845	265.549
45	264.421	209.032	204.449	264.894	272.998	274.390	273.158	217.406	222.572	269.158
46	277.427	213.676	208.575	266.847	277.664	274.748	278.280	219.739	223.337	269.537
47	278.022	213.483	207.431	266.000	273.807	266.308	273.917	213.885	215.876	261.857
48	274.445	210.154	203.183	258.671	262.990	253.400	265.637	204.773	208.498	251.348
49	264.289	199.128	194.232	245.637	247.684	240.580	254.423	196.152	204.867	243.541
50	251.183	187.893	186.633	233.032	237.037	230.099	244.762	188.548	197.544	237.582
51	239.667	180.895	177.186	222.512	227.744	223.926	235.898	181.632	190.380	227.953
52	230.341	175.558	169.869	215.502	220.570	217.500	228.504	177.539	187.123	218.176
53	223.084	169.495	165.940	210.193	217.599	214.198	221.021	173.093	182.358	210.683
54	219.387	165.010	161.429	205.296	213.797	210.220	214.501	169.517	178.534	205.516
55	216.289	165.043	159.365	205.588	212.542	205.511	210.578	168.570	171.310	197.093
56	209.153	163.272	156.895	203.624	208.916	202.342	207.024	162.953	163.118	188.917
57	201.599	157.297	157.363	201.401	206.011	198.133	200.906	157.088	154.458	179.558
58	192.900	150.133	155.013	196.146	198.380	192.069	195.750	150.337	146.925	173.572
59	186.221	144.070	149.291	188.432	190.793	184.510	186.930	143.399	140.053	166.573
60	177.753	138.139	144.224	181.935	182.848	176.653	178.034	135.382	131.965	158.777
61	169.968	131.421	136.950	171.772	172.856	166.557	169.137	128.582	126.408	154.573
62	162.898	124.318	127.624	162.094	163.982	157.632	159.294	119.680	118.777	148.989
63	154.386	117.490	119.289	153.176	153.071	146.656	147.723	110.777	111.146	142.716
64	145.550	110.458	110.931	141.825	139.388	133.583	134.766	101.875	103.476	133.451
65	134.348	100.533	101.066	128.565	124.912	119.069	118.854	92.714	94.568	120.615
66	119.762	91.031	91.520	115.300	110.436	104.588	102.992	81.485	83.883	107.773
67	105.270	80.857	82.035	102.117	96.010	93.143	89.231	71.598	72.258	94.860
68	90.403	71.344	73.523	91.366	84.857	83.641	79.075	64.214	58.954	79.295
69	77.083	63.504	65.512	80.181	74.624	74.040	71.014	55.493	49.274	70.128
70	65.105	56.302	59.207	70.106	65.116	64.995	63.185	47.988	44.562	61.424
71	63.256	53.250	53.805	63.196	58.299	57.353	55.675	43.443	42.202	53.663
72	61.276	51.654	50.258	60.450	55.488	52.884	51.219	40.901	40.122	46.409
73	59.455	49.690	48.355	58.046	53.180	50.772	49.113	38.955	37.937	43.457
74	57.419	47.717	46.742	55.686	51.380	48.847	47.906	37.472	36.327	41.032
75	55.141	45.654	44.989	53.475	49.707	47.340	47.139	36.637	34.619	38.977
76	52.600	44.246	43.851	51.754	49.054	47.022	46.890	36.236	33.646	37.330
77	50.568	42.255	42.419	50.506	48.445	46.631	46.789	36.628	32.924	35.958
78	48.536	40.768	41.690	49.513	48.250	46.299	46.654	36.730	32.464	35.519
79	46.505	39.873	40.579	48.823	47.626	45.348	45.788	36.584	31.406	34.555
80	45.612	38.908	39.917	47.851	46.428	43.849	44.379	35.663	29.864	33.440
81	43.393	37.469	38.151	46.099	43.919	41.642	42.112	34.028	28.044	32.370
82	40.156	35.174	35.987	42.863	40.968	38.738	39.726	32.076	25.912	30.013
83	37.088	32.485	33.147	39.578	37.807	36.731	37.324	30.111	23.957	27.134
84	34.401	30.296	30.851	36.766	35.626	34.292	35.601	28.709	22.043	24.782
85	31.898	27.889	28.975	34.339	32.787	31.569	32.454	26.208	20.944	22.229
86	29.126	25.615	26.223	31.225	30.078	28.911	30.385	24.862	19.552	19.353
87	27.376	24.087	24.557	29.224	28.523	27.631	29.477	24.024	17.831	17.332
88	26.174	22.917	23.080	27.709	27.541	27.926	29.116	23.240	16.321	15.838
89	24.122	21.047	22.124	25.885	26.615	25.947	27.393	22.350	15.146	14.880
90	21.616	19.330	19.944	24.248	24.531	24.214	25.157	19.835	14.400	14.838
91	20.300	18.370	18.673	22.740	22.545	21.958	22.843	18.406	13.675	13.548
92	20.045	17.980	17.735	21.423	21.050	20.609	20.938	17.596	12.829	13.161

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HZCAS100HTLOWT50120-277V_P.IES

CANDELA TABULATION - (Cont.)

93	19.169	17.601	17.250	20.301	19.762	19.352	19.398	16.337	12.576	12.997
94	18.729	17.045	16.451	19.412	18.730	17.889	17.511	15.680	12.759	13.067
95	18.180	16.620	15.882	18.456	17.570	16.267	15.595	14.251	12.316	13.496
96	17.735	16.170	15.438	17.793	16.279	14.405	13.469	12.598	12.177	12.975
97	17.302	16.008	14.932	17.047	14.877	12.691	12.071	11.920	11.779	12.377
98	17.035	15.757	14.579	16.379	13.770	11.473	11.492	11.876	11.674	12.263
99	16.379	15.303	14.331	15.457	12.703	10.842	11.515	11.956	11.719	12.267
100	15.966	15.080	13.931	14.401	11.951	10.925	11.644	12.099	11.848	12.409
101	15.660	14.823	13.400	13.735	11.893	11.247	11.887	12.273	11.989	12.568
102	15.287	14.597	13.022	13.203	12.075	11.495	12.101	12.446	12.137	12.754
103	14.924	14.320	12.684	13.162	12.282	11.706	12.340	12.628	12.335	12.937
104	14.271	13.660	12.490	13.137	12.444	12.016	12.509	12.786	12.526	13.139
105	13.562	12.936	12.376	13.153	12.527	12.243	12.720	12.893	12.634	13.337
106	12.618	12.791	12.392	13.153	12.632	12.334	12.798	13.011	12.728	13.466
107	12.706	13.010	12.564	13.341	12.750	12.416	12.876	13.083	12.854	13.492
108	12.920	13.180	12.732	13.462	12.937	12.545	12.856	13.116	12.962	13.430
109	13.094	13.281	12.803	13.545	13.046	12.629	12.904	13.080	12.921	13.475
110	13.155	13.414	12.920	13.515	13.063	12.589	12.882	13.066	12.858	13.416
111	13.107	13.442	12.894	13.469	13.043	12.536	12.761	13.019	12.735	13.264
112	12.852	13.242	12.735	13.368	12.909	12.409	12.749	12.940	12.624	13.173
113	12.435	12.973	12.541	13.134	12.707	12.211	12.612	12.813	12.509	13.107
114	12.389	12.891	12.482	13.129	12.641	12.128	12.462	12.699	12.453	13.039
115	12.450	12.878	12.432	13.198	12.787	12.272	12.589	12.667	12.468	12.955
116	12.619	12.909	12.478	13.224	13.025	12.481	12.794	12.760	12.519	13.052
117	12.853	13.015	12.624	13.363	13.297	12.755	12.998	12.888	12.619	13.132
118	13.117	13.192	12.799	13.580	13.610	13.032	13.165	13.003	12.773	13.199
119	13.355	13.332	12.986	13.763	13.858	13.179	13.266	13.094	12.913	13.270
120	13.523	13.403	13.082	13.866	14.041	13.293	13.378	13.216	13.044	13.376
121	13.646	13.528	13.200	14.031	14.211	13.578	13.576	13.369	13.145	13.564
122	13.838	13.665	13.373	14.213	14.349	13.893	13.812	13.501	13.266	13.767
123	14.042	13.699	13.567	14.439	14.526	14.076	14.040	13.658	13.402	14.055
124	14.159	13.712	13.685	14.562	14.690	14.228	14.180	13.818	13.494	14.315
125	14.217	13.763	13.776	14.565	14.735	14.400	14.364	13.923	13.533	14.509
126	14.179	13.768	13.665	14.666	14.748	14.521	14.480	13.849	13.417	14.596
127	14.208	13.566	13.414	14.658	14.822	14.565	14.465	13.730	13.352	14.581
128	14.151	13.323	13.201	14.498	14.830	14.554	14.331	13.649	13.306	14.479
129	14.070	13.152	13.027	14.289	14.753	14.459	14.236	13.621	13.261	14.422
130	13.976	13.029	13.001	14.228	14.644	14.356	14.208	13.627	13.270	14.357
131	13.775	12.965	12.954	14.192	14.523	14.224	14.182	13.638	13.260	14.338
132	13.651	12.939	12.910	14.216	14.483	14.190	14.286	13.678	13.367	14.498
133	13.693	13.033	12.968	14.377	14.529	14.275	14.441	13.748	13.521	14.615
134	13.838	13.163	13.051	14.518	14.586	14.399	14.575	13.810	13.679	14.829
135	13.881	13.181	13.107	14.547	14.615	14.488	14.687	13.899	13.859	15.079
136	13.819	13.261	13.129	14.507	14.665	14.534	14.763	14.071	13.987	15.241
137	13.797	13.386	13.204	14.505	14.748	14.631	14.832	14.228	14.053	15.373
138	13.829	13.523	13.288	14.529	14.834	14.680	14.868	14.344	14.121	15.434
139	13.909	13.557	13.298	14.465	14.843	14.733	14.864	14.373	14.206	15.447
140	13.961	13.554	13.287	14.493	14.815	14.711	14.858	14.349	14.208	15.456
141	13.950	13.524	13.267	14.494	14.669	14.622	14.772	14.314	14.175	15.375
142	13.869	13.426	13.246	14.426	14.478	14.449	14.633	14.269	14.142	15.239
143	13.721	13.238	13.206	14.280	14.223	14.248	14.471	14.168	14.049	15.102
144	13.583	13.096	13.165	14.131	13.902	14.055	14.272	14.019	13.935	14.915
145	13.408	12.921	13.123	13.975	13.571	13.837	14.042	13.791	13.793	14.728
146	13.166	12.565	12.898	13.715	13.187	13.587	13.822	13.560	13.545	14.465
147	12.897	12.188	12.561	13.436	12.902	13.328	13.615	13.252	13.140	14.182
148	12.558	11.819	12.263	13.250	12.772	13.142	13.364	12.935	12.693	13.809

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HZCAS100HTLOWT50120-277V_P.IES

CANDELA TABULATION - (Cont.)

149	12.359	11.477	11.944	13.030	12.499	12.933	13.110	12.717	12.365	13.457
150	12.235	11.425	11.937	12.737	12.117	12.638	12.860	12.653	12.238	13.217
151	12.054	11.252	12.049	12.393	12.008	12.427	12.906	12.673	12.162	13.080
152	11.827	10.883	11.686	11.671	11.792	12.316	12.887	12.607	11.979	12.984
153	11.567	10.622	11.008	10.948	11.483	11.974	12.510	12.298	11.679	12.738
154	11.287	10.352	10.329	10.226	10.961	11.336	11.770	11.882	11.351	12.349
155	10.911	9.723	9.652	9.517	10.438	10.699	11.275	11.541	11.002	11.970
156	10.324	9.243	9.028	8.831	9.916	10.063	10.780	11.062	10.654	11.585
157	9.780	8.651	8.431	8.284	9.362	9.483	10.284	10.584	10.305	10.982
158	9.186	8.081	7.898	7.766	8.739	8.877	9.741	10.104	9.867	10.379
159	8.539	7.530	7.395	7.289	7.954	8.211	8.926	9.411	9.318	9.774
160	7.955	7.060	6.884	6.809	7.220	7.578	8.226	8.696	8.594	9.041
161	7.522	6.644	6.383	6.296	6.634	6.902	7.654	7.982	7.869	8.221
162	7.165	6.223	5.987	5.974	6.093	6.237	7.123	7.346	7.232	7.434
163	6.790	5.843	5.549	5.639	5.577	5.651	6.607	6.764	6.615	6.858
164	6.471	5.477	5.041	5.162	5.104	5.043	6.103	6.208	5.968	6.328
165	6.142	5.110	4.569	4.663	4.660	4.485	5.501	5.583	5.261	5.810
166	5.680	4.651	4.101	4.162	4.208	4.065	4.786	4.946	4.562	5.012
167	5.086	4.191	3.586	3.611	3.686	3.646	4.202	4.310	3.900	4.029
168	4.488	3.750	3.062	3.040	3.080	3.184	3.605	3.548	3.129	3.027
169	3.891	3.206	2.455	2.424	2.351	2.587	2.808	2.640	2.270	2.211
170	3.055	2.519	1.850	1.816	1.701	1.881	2.024	1.903	1.610	1.487
171	2.260	1.885	1.390	1.365	1.233	1.373	1.423	1.363	1.153	1.040
172	1.609	1.366	1.053	1.044	0.918	0.987	1.043	0.996	0.859	0.728
173	1.174	0.992	0.825	0.820	0.704	0.750	0.747	0.689	0.632	0.594
174	0.761	0.671	0.649	0.650	0.580	0.609	0.602	0.552	0.544	0.536
175	0.492	0.468	0.558	0.561	0.558	0.557	0.549	0.544	0.533	0.527
176	0.455	0.447	0.545	0.546	0.547	0.545	0.538	0.534	0.524	0.517
177	0.460	0.454	0.533	0.535	0.535	0.533	0.525	0.520	0.512	0.508
178	0.466	0.461	0.520	0.522	0.521	0.519	0.511	0.506	0.500	0.497
179	0.472	0.468	0.515	0.514	0.512	0.509	0.503	0.496	0.492	0.489
180	0.507	0.507	0.507	0.507	0.507	0.507	0.507	0.507	0.507	0.507

Vert. Angles	Horizontal Angles				
	<u>300</u>	<u>315</u>	<u>330</u>	<u>345</u>	<u>360</u>
0	386.851	386.851	386.851	386.851	386.851
1	385.971	383.775	385.294	382.582	385.938
2	393.074	391.401	391.385	386.488	385.129
3	396.023	393.365	400.105	395.038	396.892
4	423.555	422.812	418.157	408.006	403.043
5	441.552	455.373	433.134	413.899	403.511
6	435.813	456.336	421.382	404.524	397.646
7	441.717	460.314	417.569	384.166	384.260
8	439.274	447.560	420.210	375.660	377.041
9	436.171	446.163	432.094	374.796	370.153
10	417.585	432.820	431.357	377.674	364.678
11	388.920	407.093	420.562	365.553	355.006
12	353.223	373.514	397.762	354.593	342.797
13	323.408	347.490	374.472	338.478	318.269
14	302.175	321.179	349.669	312.965	297.482
15	289.906	300.860	323.391	292.948	274.946
16	280.283	289.845	306.940	275.061	261.235
17	269.460	276.866	296.470	266.225	251.573
18	258.660	263.711	284.624	263.749	248.828
19	251.683	257.681	276.437	254.291	248.762

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HZCAS100HTLOWT50120-277V_P.IES

CANDELA TABULATION - (Cont.)

20	249.604	255.799	269.510	252.267	246.919
21	255.034	263.419	275.683	252.624	247.276
22	266.231	273.174	280.459	255.568	247.937
23	278.093	286.247	284.701	255.568	244.718
24	287.452	295.804	286.418	255.106	241.323
25	293.647	300.882	289.235	257.736	238.666
26	295.364	305.609	294.423	258.275	238.913
27	299.243	309.768	300.695	258.346	238.457
28	297.422	310.918	301.680	259.458	243.783
29	295.397	312.051	303.232	259.029	248.289
30	297.273	311.947	307.628	261.472	248.459
31	300.244	315.611	313.735	262.682	245.681
32	296.514	305.669	311.798	258.732	238.726
33	280.789	288.640	299.760	249.268	228.548
34	265.851	276.008	288.255	237.587	215.288
35	257.059	265.747	277.251	225.654	204.476
36	248.360	254.429	264.107	215.777	199.084
37	240.146	248.052	259.727	209.450	192.999
38	231.975	242.374	255.166	207.546	188.812
39	225.378	235.975	250.726	203.062	185.599
40	227.387	235.348	247.689	200.146	186.210
41	237.323	243.001	251.722	202.099	192.229
42	255.188	258.396	268.371	212.564	202.567
43	268.558	270.192	279.777	219.788	212.273
44	276.987	277.477	282.302	224.251	218.446
45	278.192	281.202	282.929	224.234	218.297
46	273.169	273.972	273.273	218.473	211.684
47	264.608	265.813	259.997	207.519	201.626
48	251.122	252.080	245.290	197.313	189.516
49	239.887	241.477	232.735	186.529	177.329
50	228.333	227.915	219.722	175.822	167.772
51	216.795	216.575	208.597	166.936	158.507
52	205.307	203.337	197.335	158.276	149.011
53	195.965	193.533	187.591	149.924	142.892
54	187.673	181.957	178.540	143.322	135.223
55	178.936	171.404	169.517	135.778	129.490
56	169.940	163.123	160.004	129.247	123.316
57	162.612	156.334	152.532	122.739	119.591
58	157.187	147.894	145.357	118.216	115.085
59	152.620	142.518	138.166	113.688	112.367
60	149.935	138.496	133.385	109.193	109.963
61	147.178	135.833	130.001	107.124	107.927
62	144.719	134.507	127.333	104.307	105.963
63	136.989	129.231	123.624	101.589	102.541
64	130.243	121.138	118.205	99.740	98.926
65	119.146	113.044	112.785	98.271	93.512
66	108.048	104.901	107.278	94.255	87.047
67	96.208	90.838	96.604	86.178	80.984
68	84.120	82.453	88.494	78.684	76.934
69	74.959	75.586	81.870	72.890	72.632
70	65.408	68.115	75.801	67.763	67.856
71	55.576	59.856	68.935	62.745	62.129
72	47.066	51.691	61.210	56.252	55.163
73	39.011	42.736	52.818	49.747	47.908
74	36.570	36.682	44.052	42.765	40.647
75	34.288	32.802	35.319	35.397	33.386

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HZCAS100HTLOWT50120-277V_P.IES

CANDELA TABULATION - (Cont.)

76	32.877	31.159	31.905	29.621	30.334
77	31.830	30.451	30.444	27.753	28.975
78	31.192	29.382	29.016	26.670	27.656
79	30.479	28.268	28.032	25.653	26.667
80	29.878	27.338	27.268	24.910	25.595
81	28.520	26.030	26.179	24.075	23.830
82	27.002	24.747	25.198	23.036	22.232
83	24.910	23.020	23.951	22.104	20.856
84	22.883	21.119	22.207	20.852	19.343
85	20.029	18.208	19.887	19.225	17.373
86	17.286	16.525	18.366	17.521	15.953
87	15.779	15.428	16.855	16.317	14.496
88	14.762	14.497	16.018	15.473	13.774
89	14.122	14.624	15.979	15.121	13.513
90	13.676	13.447	15.307	14.921	12.915
91	13.168	13.146	14.794	14.304	12.661
92	13.237	13.236	14.505	14.173	12.901
93	12.509	12.889	14.409	14.399	13.241
94	12.520	12.713	14.080	13.866	12.397
95	13.208	12.712	13.566	13.600	12.201
96	12.033	12.044	13.355	13.457	12.050
97	11.709	11.861	12.990	13.150	11.984
98	11.680	11.743	12.883	13.114	11.894
99	11.748	11.805	12.766	13.009	11.850
100	11.932	11.954	12.681	12.877	11.871
101	12.114	12.126	12.717	12.961	11.972
102	12.386	12.348	12.877	13.078	12.028
103	12.663	12.544	12.968	13.165	12.077
104	12.837	12.773	13.034	13.187	12.152
105	13.092	12.998	13.148	13.260	12.250
106	13.254	13.255	13.189	13.345	12.383
107	13.336	13.293	13.125	13.367	12.457
108	13.282	13.233	13.049	13.277	12.486
109	13.219	13.152	12.976	13.217	12.432
110	13.104	13.011	12.919	13.065	12.314
111	12.901	12.844	12.890	12.977	12.175
112	12.831	12.738	12.891	12.956	12.052
113	12.749	12.681	12.779	12.813	11.945
114	12.717	12.701	12.760	12.711	11.961
115	12.743	12.741	12.811	12.710	12.017
116	12.909	12.912	12.995	12.856	12.134
117	13.058	13.088	13.161	13.018	12.331
118	13.184	13.257	13.319	13.158	12.504
119	13.317	13.374	13.406	13.291	12.651
120	13.439	13.484	13.485	13.438	12.729
121	13.553	13.588	13.568	13.565	12.793
122	13.698	13.767	13.738	13.642	12.848
123	13.898	13.998	13.960	13.704	12.899
124	14.091	14.203	14.147	13.803	12.882
125	14.282	14.428	14.269	13.868	12.795
126	14.372	14.543	14.306	13.767	12.699
127	14.373	14.545	14.255	13.643	12.634
128	14.348	14.503	14.244	13.620	12.602
129	14.311	14.459	14.194	13.654	12.678
130	14.305	14.409	14.188	13.732	12.680
131	14.370	14.487	14.343	13.811	12.683

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HZCAS100HTLOWT50120-277V_P.IES

CANDELA TABULATION - (Cont.)

132	14.503	14.647	14.567	13.980	12.686
133	14.644	14.789	14.803	14.159	12.689
134	14.902	14.980	14.984	14.251	12.692
135	15.164	15.239	15.093	14.263	12.743
136	15.462	15.509	15.132	14.275	12.807
137	15.742	15.686	15.177	14.297	12.856
138	15.886	15.829	15.215	14.304	12.936
139	15.944	15.884	15.193	14.327	13.047
140	15.964	15.841	15.134	14.315	13.126
141	15.824	15.701	15.070	14.289	13.166
142	15.583	15.522	14.995	14.255	13.131
143	15.373	15.342	14.865	14.201	13.053
144	15.188	15.204	14.687	14.082	12.937
145	15.056	15.071	14.527	13.949	12.798
146	14.877	14.909	14.311	13.746	12.600
147	14.571	14.626	14.069	13.504	12.415
148	14.170	14.297	13.782	13.171	12.320
149	13.889	14.062	13.527	12.934	12.239
150	13.781	13.979	13.333	12.871	12.154
151	13.672	13.916	13.364	12.953	11.977
152	13.417	13.740	13.498	12.957	11.757
153	12.942	13.435	13.267	12.625	11.496
154	12.445	13.007	12.551	12.024	11.231
155	11.912	12.388	11.938	11.582	10.970
156	11.341	11.650	11.324	11.093	10.667
157	10.770	10.912	10.710	10.604	10.295
158	10.195	10.174	10.096	10.113	9.692
159	9.461	9.503	9.395	9.483	9.012
160	8.759	8.788	8.771	8.885	8.443
161	8.133	8.055	8.124	8.224	7.964
162	7.531	7.276	7.492	7.536	7.463
163	6.853	6.509	6.830	6.810	6.981
164	6.234	5.866	6.218	6.098	6.544
165	5.571	5.307	5.676	5.493	6.064
166	4.822	4.728	5.107	4.938	5.128
167	3.981	4.088	4.439	4.334	4.181
168	3.002	3.110	3.445	3.445	3.234
169	2.140	2.198	2.475	2.504	2.331
170	1.459	1.509	1.743	1.741	1.549
171	0.998	1.088	1.211	1.259	1.022
172	0.680	0.752	0.844	0.894	0.632
173	0.558	0.585	0.617	0.637	0.472
174	0.540	0.547	0.547	0.546	0.445
175	0.532	0.536	0.536	0.536	0.457
176	0.521	0.525	0.522	0.521	0.466
177	0.508	0.511	0.507	0.508	0.476
178	0.495	0.497	0.494	0.492	0.487
179	0.487	0.490	0.486	0.483	0.497
180	0.507	0.507	0.507	0.507	0.507

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HZCAS100HTLOWT50120-277V_P.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	133.53	N.A.	12.80
0-30	263.48	N.A.	25.30
0-40	420.18	N.A.	40.40
0-60	768.85	N.A.	74.00
0-80	929.09	N.A.	89.40
0-90	957.75	N.A.	92.10
10-90	918.02	N.A.	88.30
20-40	286.66	N.A.	27.60
20-50	470.26	N.A.	45.20
40-70	460.29	N.A.	44.30
60-80	160.24	N.A.	15.40
70-80	48.61	N.A.	4.70
80-90	28.66	N.A.	2.80
90-110	30.28	N.A.	2.90
90-120	43.12	N.A.	4.10
90-130	55.65	N.A.	5.40
90-150	75.05	N.A.	7.20
90-180	81.81	N.A.	7.90
110-180	51.53	N.A.	5.00
0-180	1039.56	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	39.73
10-20	93.80
20-30	129.96
30-40	156.70
40-50	183.61
50-60	165.06
60-70	111.62
70-80	48.61
80-90	28.66
90-100	16.46
100-110	13.82
110-120	12.84
120-130	12.53
130-140	10.90
140-150	8.50
150-160	5.05
160-170	1.62
170-180	0.09

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HZCAS100HTLOWT50120-277V_P.IES

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	117	117	117	117	113	113	113	113	107	107	107	100	100	100	95	95	95	92
1	107	102	98	94	103	99	95	92	93	90	87	88	86	83	83	81	80	77
2	97	89	83	77	94	87	81	75	82	77	72	77	73	70	73	70	67	64
3	89	78	70	64	86	76	69	63	72	66	61	68	63	59	65	61	57	54
4	81	70	61	54	78	68	60	53	64	57	52	61	55	50	58	53	49	46
5	75	62	53	47	72	60	52	46	57	50	45	55	49	44	52	47	43	40
6	69	56	47	41	67	54	46	40	52	45	39	49	43	38	47	42	37	35
7	64	51	42	36	62	49	41	36	47	40	35	45	39	34	43	37	33	31
8	60	46	38	32	58	45	37	32	43	36	31	41	35	30	40	34	30	28
9	56	42	34	29	54	41	34	29	40	33	28	38	32	27	37	31	27	25
10	52	39	31	26	50	38	31	26	37	30	25	35	29	25	34	28	24	23

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HZCAS100HTLOWT50120-277V_P.IES

UGR TABLE - CORRECTED

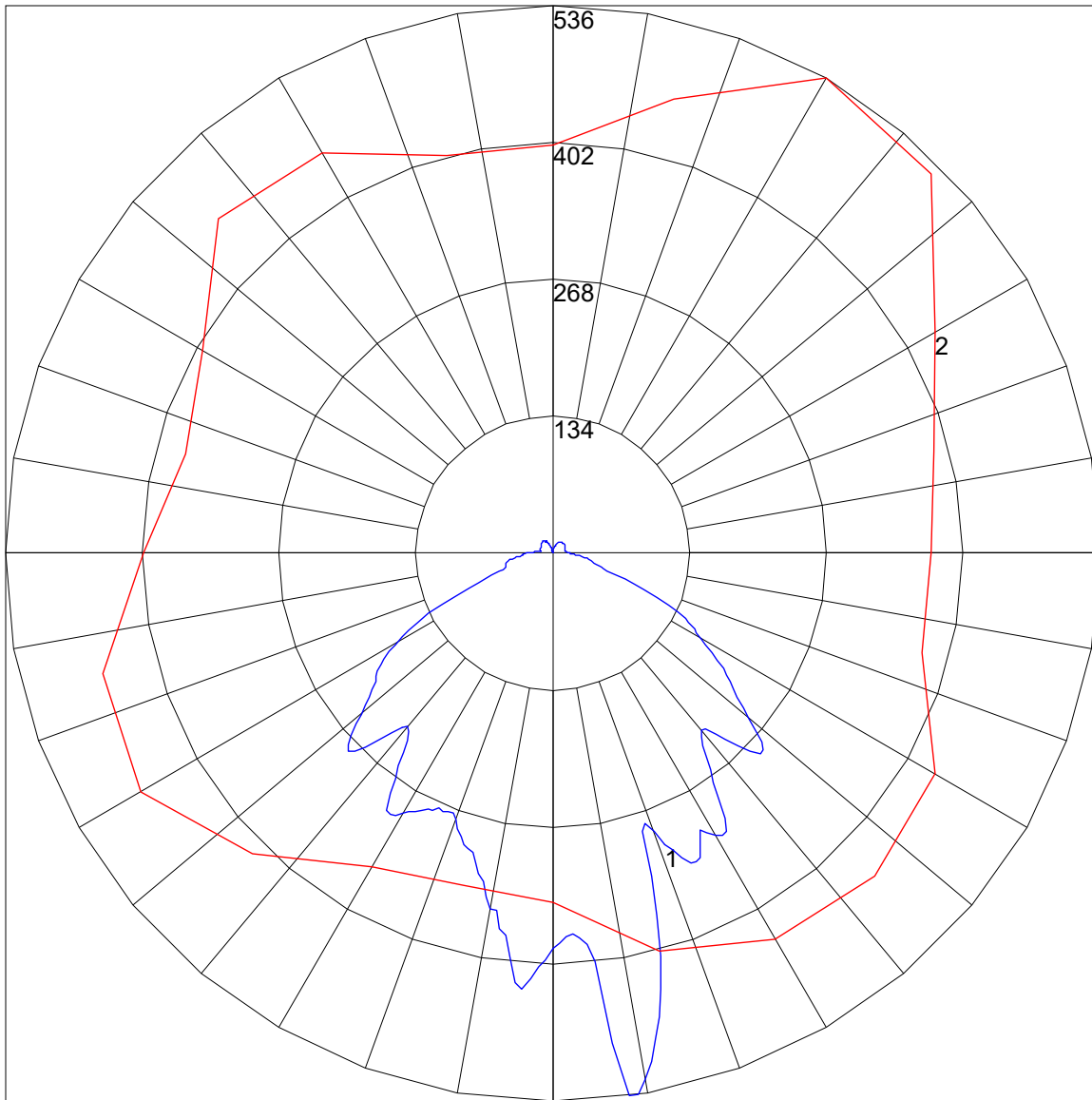
Reflectances

Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20

Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	18.5	19.9	18.9	20.4	20.9	20.0	21.4	20.5	21.9	22.4
	3H	19.7	21.0	20.2	21.5	22.1	20.6	21.9	21.1	22.4	22.9
	4H	19.9	21.2	20.4	21.7	22.2	20.7	22.0	21.2	22.5	23.0
	6H	20.0	21.2	20.6	21.7	22.3	20.9	22.0	21.4	22.5	23.1
	8H	20.0	21.2	20.6	21.7	22.3	20.9	22.1	21.5	22.6	23.2
	12H	20.1	21.1	20.6	21.7	22.3	21.0	22.1	21.6	22.6	23.2
4H	2H	19.2	20.4	19.7	20.9	21.5	20.5	21.7	21.0	22.2	22.8
	3H	20.5	21.5	21.0	22.1	22.7	21.1	22.2	21.7	22.7	23.3
	4H	20.7	21.7	21.3	22.2	22.8	21.3	22.3	21.9	22.9	23.5
	6H	20.9	21.7	21.4	22.3	22.9	21.6	22.4	22.2	23.0	23.7
	8H	20.9	21.7	21.5	22.3	22.9	21.7	22.5	22.3	23.1	23.7
	12H	21.0	21.7	21.6	22.3	22.9	21.9	22.5	22.5	23.2	23.8
8H	4H	20.8	21.5	21.3	22.1	22.8	21.4	22.2	22.0	22.8	23.4
	6H	21.0	21.6	21.6	22.2	22.9	21.8	22.4	22.4	23.1	23.7
	8H	21.1	21.7	21.7	22.3	23.0	22.0	22.6	22.6	23.2	23.9
	12H	21.2	21.7	21.8	22.3	23.0	22.2	22.7	22.8	23.3	24.0
12H	4H	20.7	21.4	21.3	22.1	22.7	21.4	22.1	22.0	22.7	23.4
	6H	21.0	21.6	21.6	22.2	22.9	21.8	22.4	22.5	23.0	23.7
	8H	21.1	21.6	21.7	22.2	23.0	22.0	22.5	22.7	23.2	23.9

Maximum UGR = 24.0

POLAR GRAPH



Maximum Candela = 535.532 Located At Horizontal Angle = 60, Vertical Angle = 9
1 - Vertical Plane Through Horizontal Angles (60 - 240) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (9) (Through Max. Cd.)