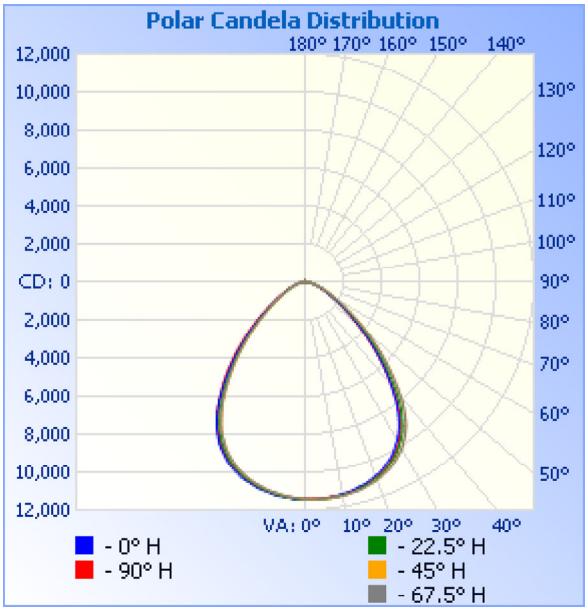
Photometrics Pro

Luminaire Photometric Report

Filename: UHB28-150-57K
Lamp Output: 1 lamp, rated Lumens/lamp: 21994.6
Max Candela: 11,477.8 at Horizontal: 22.5°, Vertical: 3°
Input Wattage: 148.19
Luminous Opening: Point
Photometry : Type C
Nema Type: 6 X 6



Roadway Summary

Cutoff Classification:		CUTOFF
Distribution:		Type VS
Max Cd, 90 Deg Vert:		11.8
Max Cd, 80 to <90 Deg:		299.0
	Lumens	% Lamp
Downward Street Side:	11,375.0	51.7%
Downward House Side:	10,534.5	47.9%
Downward Total:	21,909.5	99.6%
Upward Street Side:	41.8	0.2%
Upward House Side:	43.2	0.2%
Upward Total:	85.0	0.4%
Total Lumens:	21,994.6	100%

Flood Summary

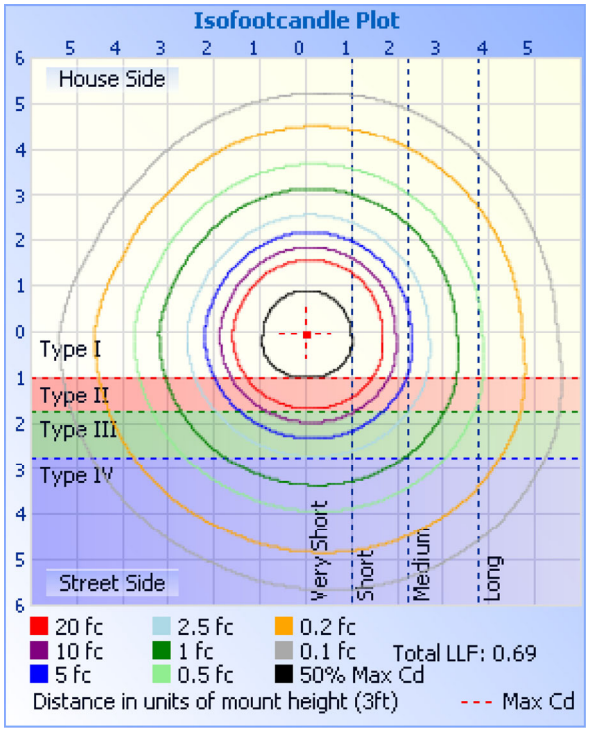
	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	94.8%	20,854.1	128.7	128.5
Beam (50%):	70.5%	15,505.4	86.5	85.9
Total:	100%	21,985.9		

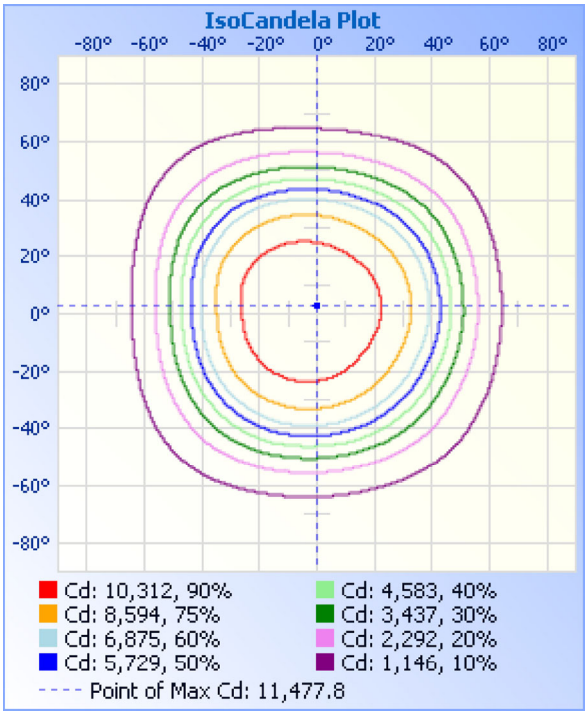
Zonal Lumen Summary

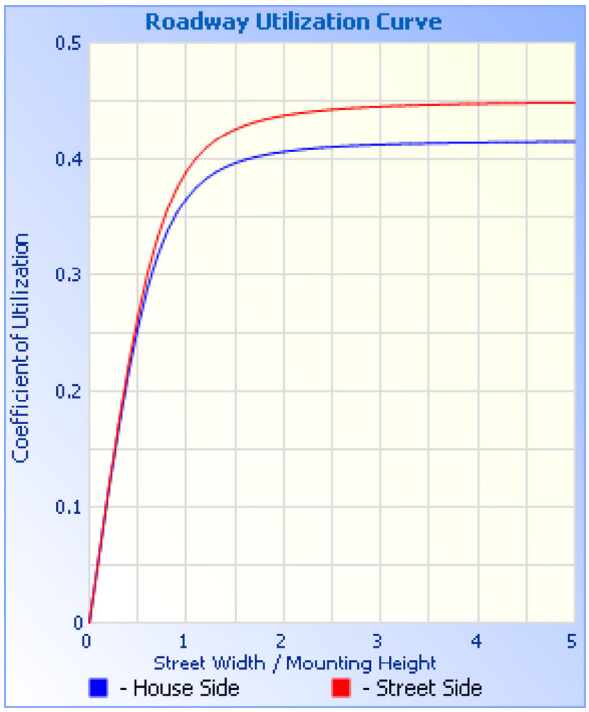
Zone	Lumens	% Lamp	% Luminaire
0-30	8,891.2	40.4%	40.4%
0-40	14,020.3	63.7%	63.8%
0-60	20,273.6	92.2%	92.2%
60-90	1,632.7	7.4%	7.4%
70-100	534.1	2.4%	2.4%
90-120	12.7	0.1%	0.1%
0-90	21,906.3	99.6%	99.6%
90-180	85.0	0.4%	0.4%
0-180	21,991.3	100%	100%

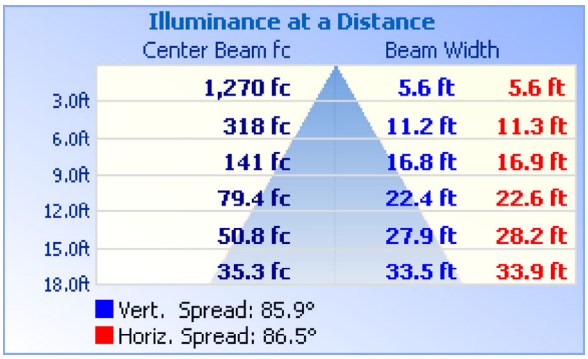
Lumens Per Zone

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	1,083.5	4.9%	90-100	2.0	0%
10-20	3,120.6	14.2%	100-110	3.6	0%
20-30	4,687.2	21.3%	110-120	7.1	0%
30-40	5,129.1	23.3%	120-130	10.9	0%
40-50	3,976.1	18.1%	130-140	14.8	0.1%
50-60	2,277.2	10.4%	140-150	16.6	0.1%
60-70	1,100.6	5.0%	150-160	15.3	0.1%
70-80	448.5	2.0%	160-170	10.8	0%
80-90	83.5	0.4%	170-180	3.9	0%









Coefficients Of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance: 20%

RCC %:	80				70				50			30			10			0
RW %:	70	50	30	0	70	50	30	0	50	30	20	50	30	20	50	30	20	0
RCR: 0	1.19	1.19	1.19	1.19	1.16	1.16	1.16	1.00	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1	1.11	1.07	1.04	1.01	1.09	1.05	1.02	.89	1.01	.99	.96	.97	.95	.93	.94	.92	.91	.89
2	1.03	.97	.91	.87	1.01	.95	.90	.79	.91	.87	.84	.88	.85	.82	.85	.82	.80	.78
3	.96	.87	.80	.75	.93	.86	.79	.70	.83	.77	.73	.80	.76	.72	.78	.74	.71	.69

4	.89	.79	.71	.66	.87	.78	.71	.62	.75	.69	.65	.73	.68	.64	.71	.66	.63	.61
5	.83	.72	.64	.58	.81	.71	.63	.56	.69	.62	.57	.67	.61	.57	.65	.60	.56	.54
6	.77	.65	.58	.52	.75	.65	.57	.50	.63	.56	.51	.61	.55	.51	.60	.55	.51	.49
7	.72	.60	.52	.47	.70	.59	.52	.46	.58	.51	.46	.56	.50	.46	.55	.50	.46	.44
8	.67	.55	.48	.42	.66	.55	.47	.42	.53	.47	.42	.52	.46	.42	.51	.46	.42	.40
9	.63	.51	.44	.39	.62	.51	.43	.38	.49	.43	.38	.48	.42	.38	.47	.42	.38	.36
10	.59	.47	.40	.35	.58	.47	.40	.35	.46	.40	.35	.45	.39	.35	.44	.39	.35	.33

Candela Table - Type C

	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5	360
0	11430	11430	11430	11430	11430	11430	11430	11430	11430	11430	11430	11430	11430	11430	11430	11430	11430
1	11453	11443	11449	11438	11415	11456	11436	11406	11430	11445	11393	11417	11418	11422	11407	11433	11453
2	11462	11476	11452	11424	11405	11463	11421	11406	11437	11434	11377	11372	11394	11437	11389	11423	11462
3	11454	**11478**	11436	11431	11429	11456	11402	11420	11431	11416	11374	11352	11358	11426	11398	11397	11454
4	11429	11469	11439	11461	11434	11428	11411	11417	11402	11368	11353	11343	11354	11401	11392	11380	11429
5	11418	11440	11461	11458	11431	11427	11415	11396	11367	11342	11320	11319	11347	11356	11369	11393	11418
6	11427	11443	11463	11447	11399	11438	11410	11360	11348	11334	11263	11286	11317	11336	11333	11376	11427
7	11418	11456	11450	11416	11377	11431	11376	11347	11342	11307	11233	11226	11274	11337	11297	11348	11418
8	11390	11445	11419	11416	11391	11404	11345	11343	11317	11267	11210	11184	11224	11304	11292	11294	11390
9	11344	11420	11412	11432	11384	11370	11340	11319	11273	11206	11174	11161	11206	11260	11263	11271	11344
10	11323	11376	11425	11418	11366	11349	11325	11282	11216	11169	11120	11126	11179	11198	11221	11265	11323
11	11314	11363	11407	11393	11319	11348	11298	11224	11184	11144	11050	11076	11130	11165	11165	11226	11314
12	11283	11358	11380	11353	11285	11322	11249	11190	11157	11099	10999	10995	11071	11142	11116	11179	11283
13	11238	11324	11331	11342	11280	11283	11196	11168	11114	11034	10960	10940	11007	11094	11095	11112	11238
14	11170	11280	11311	11339	11254	11223	11169	11128	11045	10957	10897	10889	10971	11032	11045	11069	11170
15	11128	11215	11301	11307	11217	11189	11134	11065	10973	10893	10821	10825	10916	10952	10980	11038	11128
16	11106	11184	11260	11260	11150	11155	11090	10992	10914	10841	10725	10749	10846	10894	10899	10984	11106
17	11047	11157	11211	11197	11093	11112	11017	10939	10864	10771	10653	10643	10759	10846	10833	10914	11047
18	10979	11100	11140	11165	11057	11042	10944	10892	10797	10681	10573	10555	10666	10770	10786	10821	10979
19	10890	11033	11095	11136	11007	10961	10896	10823	10703	10571	10485	10482	10600	10680	10705	10756	10890
20	10824	10949	11064	11075	10941	10895	10835	10738	10600	10480	10370	10383	10522	10575	10612	10700	10824
21	10775	10894	11000	11005	10844	10842	10756	10632	10512	10389	10239	10267	10420	10488	10499	10609	10775
22	10686	10836	10923	10920	10754	10765	10655	10543	10424	10279	10124	10125	10300	10405	10402	10502	10686
23	10584	10752	10825	10861	10692	10662	10548	10464	10310	10149	10014	10003	10175	10291	10311	10375	10584
24	10461	10648	10755	10797	10602	10547	10457	10360	10177	9998	9875	9880	10074	10161	10194	10272	10461
25	10355	10532	10688	10709	10500	10445	10355	10228	10032	9857	9717	9738	9953	10015	10062	10167	10355
26	10253	10433	10593	10604	10363	10336	10238	10077	9891	9716	9541	9581	9810	9895	9905	10035	10253
27	10121	10336	10479	10487	10230	10210	10086	9943	9753	9558	9363	9390	9645	9762	9769	9880	10121
28	9969	10205	10341	10379	10107	10058	9924	9799	9591	9375	9196	9203	9475	9602	9625	9705	9969
29	9788	10051	10228	10274	9959	9884	9784	9640	9396	9162	9002	9028	9324	9421	9454	9550	9788
30	9634	9883	10104	10135	9800	9713	9617	9450	9184	8951	8772	8812	9144	9220	9266	9379	9634
31	9466	9724	9955	9973	9591	9535	9425	9230	8984	8750	8514	8567	8935	9027	9045	9177	9466
32	9270	9564	9778	9790	9383	9336	9204	9019	8753	8497	8266	8299	8696	8832	8827	8957	9270
33	9045	9364	9580	9637	9190	9107	8967	8804	8513	8234	8012	8025	8458	8596	8610	8707	9045
34	8793	9136	9398	9444	8951	8840	8727	8545	8232	7935	7727	7775	8228	8339	8360	8471	8793
35	8535	8886	9193	9230	8682	8564	8462	8259	7927	7635	7425	7483	7957	8061	8081	8208	8535
36	8270	8636	8960	8978	8376	8291	8178	7953	7634	7352	7110	7175	7684	7792	7796	7919	8270
37	7979	8374	8680	8697	8061	7982	7856	7651	7334	7046	6810	6857	7375	7524	7503	7619	7979
38	7650	8074	8379	8421	7743	7639	7515	7331	7007	6733	6500	6561	7082	7228	7220	7301	7650
39	7323	7737	8088	8126	7403	7300	7188	7016	6686	6403	6188	6265	6800	6917	6919	7003	7323
40	7018	7411	7771	7788	7066	6953	6870	6675	6348	6084	5884	5960	6494	6604	6602	6687	7018
41	6698	7080	7429	7434	6688	6608	6521	6324	6020	5771	5557	5661	6188	6306	6282	6366	6698
42	6376	6755	7084	7082	6336	6272	6176	6004	5728	5479	5257	5346	5879	6018	5990	6050	6376
43	6045	6400	6732	6745	6014	5933	5843	5696	5404	5155	4952	5033	5583	5715	5698	5731	6045
44	5705	6058	6405	6408	5674	5584	5518	5373	5084	4831	4665	4738	5296	5391	5392	5414	5705
45	5389	5719	6070	6057	5339	5251	5196	5052	4768	4524	4367	4457	4990	5098	5080	5128	5389
46	5093	5414	5729	5709	5005	4943	4887	4738	4477	4243	4080	4161	4686	4805	4768	4820	5093

47	4771	5088	5398	5381	4671	4635	4562	4443	4199	3962	3797	3874	4378	4509	4485	4512	4771
48	4461	4774	5070	5070	4380	4321	4267	4147	3916	3678	3545	3613	4111	4223	4207	4220	4461
49	4167	4468	4750	4750	4084	4034	3985	3864	3655	3416	3291	3358	3835	3944	3919	3955	4167
50	3884	4171	4445	4454	3795	3754	3712	3598	3392	3164	3046	3112	3577	3671	3645	3688	3884
51	3613	3891	4159	4149	3517	3484	3454	3322	3154	2921	2807	2876	3318	3416	3394	3428	3613
52	3356	3630	3875	3869	3257	3235	3200	3078	2912	2704	2585	2640	3075	3179	3159	3182	3356
53	3104	3373	3588	3610	3023	2993	2948	2848	2693	2478	2374	2419	2831	2940	2916	2943	3104
54	2855	3115	3342	3343	2786	2754	2718	2618	2476	2270	2188	2223	2615	2705	2693	2723	2855
55	2640	2883	3096	3099	2559	2532	2510	2400	2274	2083	2009	2051	2401	2485	2475	2509	2640
56	2428	2658	2853	2849	2349	2335	2310	2202	2096	1922	1845	1879	2211	2284	2281	2306	2428
57	2235	2453	2628	2616	2153	2148	2112	2015	1933	1772	1692	1725	2024	2104	2097	2122	2235
58	2054	2258	2418	2413	1990	1971	1943	1859	1776	1627	1562	1590	1864	1933	1935	1953	2054
59	1885	2071	2234	2225	1833	1809	1787	1708	1638	1499	1436	1463	1721	1774	1786	1805	1885
60	1738	1908	2058	2044	1686	1671	1643	1572	1506	1381	1319	1346	1582	1621	1640	1661	1738
61	1602	1768	1894	1878	1550	1536	1513	1439	1389	1275	1211	1238	1454	1496	1507	1526	1602
62	1484	1627	1745	1730	1428	1416	1389	1326	1276	1175	1115	1138	1336	1377	1390	1404	1484
63	1361	1501	1609	1598	1316	1304	1274	1224	1177	1078	1024	1043	1231	1258	1280	1286	1361
64	1255	1384	1482	1475	1216	1196	1176	1125	1079	990	939	957	1131	1155	1174	1186	1255
65	1157	1276	1373	1355	1115	1097	1079	1031	988	912	862	880	1043	1058	1080	1090	1157
66	1064	1177	1262	1244	1022	1009	991	946	907	836	788	803	956	974	989	1002	1064
67	979	1084	1160	1143	932	924	902	867	832	766	718	733	872	890	909	913	979
68	897	996	1062	1051	856	842	824	792	758	698	656	670	800	813	828	835	897
69	822	910	977	960	781	765	752	722	689	633	595	609	733	742	757	765	822
70	752	835	894	876	709	697	683	655	627	577	537	551	669	675	689	695	752
71	683	763	814	798	641	630	619	594	568	523	484	497	606	613	622	630	683
72	621	696	741	726	580	569	559	538	511	471	436	447	549	556	564	570	621
73	561	630	672	656	522	510	502	484	461	423	389	399	496	502	510	513	561
74	504	566	610	593	468	458	450	436	411	377	349	354	448	449	458	460	504
75	455	509	549	533	419	408	403	388	364	334	306	314	400	404	408	413	455
76	405	459	491	475	372	362	356	346	322	294	267	274	355	359	361	366	405
77	358	407	438	424	329	320	315	305	283	257	229	236	313	318	320	323	358
78	316	359	389	377	287	278	275	266	243	220	195	202	274	279	280	282	316
79	274	316	344	333	247	239	238	229	207	185	162	169	236	240	241	243	274
80	236	274	299	288	209	203	202	195	174	153	132	136	200	204	204	206	236
81	201	236	259	247	174	169	170	162	143	124	104	108	168	170	171	174	201
82	165	197	220	210	142	137	138	131	112	95	79	82	137	140	140	141	165
83	133	162	183	173	112	108	109	103	87	71	55	58	107	112	109	110	133
84	104	130	150	141	85	82	84	79	63	48	36	38	82	86	84	85	104
85	77	100	118	110	60	57	60	56	41	28	19	21	58	62	59	61	77
86	53	73	89	83	39	36	39	36	24	16	11	12	37	40	37	39	53
87	33	49	63	58	21	19	22	20	14	9	5	5	21	22	20	21	33
88	18	28	40	36	11	10	12	11	7	3	1	1	12	13	11	12	18
89	10	15	21	19	5	4	6	5	2	2	1	1	6	6	5	5	10
90	4	9	12	11	1	1	1	1	1	2	1	1	1	1	1	1	4
91	1	3	6	5	1	1	1	1	1	2	1	1	1	1	1	1	1
92	2	2	1	1	1	1	1	1	1	2	2	1	1	1	1	1	2
93	2	2	1	1	1	1	1	1	2	2	2	1	1	1	1	1	2
94	2	2	1	1	1	1	1	1	2	2	2	1	1	1	2	1	2
95	2	2	1	1	1	1	2	1	2	2	2	1	2	2	2	1	2

96	2	2	2	1	1	1	2	1	2	2	2	2	2	2	2	2	2
97	2	2	2	1	1	1	2	2	2	3	2	2	2	2	2	2	2
98	2	2	2	2	2	1	2	2	2	3	2	2	2	2	2	2	2
99	2	2	2	2	2	2	2	2	2	3	2	2	2	2	2	2	2
100	3	3	2	2	2	2	2	2	2	3	3	3	2	2	2	2	3
101	3	3	2	2	2	2	2	2	3	3	3	3	2	2	2	2	3
102	3	3	2	2	2	2	3	2	3	3	3	3	2	3	2	3	3
103	3	3	2	2	3	2	2	3	3	4	3	3	3	3	3	2	3
104	3	3	3	2	3	3	3	3	3	4	4	4	3	3	3	3	3
105	3	4	3	3	3	3	3	3	4	4	4	4	4	3	3	3	3
106	4	4	3	3	4	3	3	4	4	5	4	4	4	4	3	3	4
107	4	4	3	4	4	4	4	4	4	5	5	5	4	4	4	4	4
108	4	4	4	4	4	4	4	4	5	5	5	6	4	4	4	5	4
109	5	4	4	4	5	4	4	5	5	6	5	6	5	4	5	5	5
110	5	5	4	5	5	4	5	5	6	5	6	6	5	5	5	5	5
111	6	5	4	5	5	5	5	5	6	6	6	6	6	5	5	6	6
112	6	6	5	5	6	6	5	6	6	6	7	7	6	6	6	6	6
113	6	6	5	5	6	6	6	6	7	7	7	7	6	6	7	6	6
114	7	7	6	6	7	7	7	6	7	7	8	7	7	7	7	7	7
115	7	7	6	6	7	7	7	6	8	8	8	8	7	7	8	7	7
116	7	8	7	6	7	8	7	7	8	8	8	8	8	8	8	8	7
117	8	8	7	6	7	8	8	7	8	8	9	9	8	8	8	8	8
118	8	8	8	7	8	8	8	8	9	9	9	9	8	9	8	8	8
119	9	9	8	7	8	8	8	8	9	10	10	10	9	9	9	9	9
120	9	9	8	8	8	9	9	9	10	10	11	10	9	9	9	9	9
121	10	10	9	8	9	9	9	9	10	11	11	11	10	10	10	10	10
122	10	10	9	9	10	10	10	10	11	12	12	11	11	10	10	10	10
123	11	10	10	10	10	10	10	10	11	12	12	12	11	11	11	11	11
124	11	11	10	10	11	11	11	11	12	13	13	13	12	12	12	12	11
125	12	12	11	11	11	12	12	12	12	14	14	14	13	12	12	12	12
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Luminaire Report Summary

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[LUMINAIRE]
[LAMPCAT]
[LAMP]
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[_CURRENT] 1.231 A
[_POWERFACTOR] 0.996
[TESTLAB]
[_TESTINST] GPM-1800B
[_TESTDIST] 8.190 m
[_TESTTEMPERATURE]
[_TESTHUMIDITY]
[_TESTOPERATOR]
[BALLAST]
[BALLASTCAT]
FILE: CANDELA MULTIPLIER: 1
FILE: VERTICAL ANGLES: 181, HORIZONTAL ANGLES: 17
FILE: COORDINATE SYSTEM: TYPE C
FILE: UNIT OF MEASURE: METRIC
FILE: BALLAST FACTOR: 1
```

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Reported data calculated from manufacturer's data file, based on IES recommended methods.