

Family Correlated Photometric Data

The following photometric information is developed using correlated data. Finelite considers a family to be a group of luminaires where critical performance metrics such as photometric performance, thermal performance, and electrical performance can be accurately projected via a combination of LM79 tests at the luminaire level and well-documented specifications at the component level.

For more information, please download [Finelite's Family Correlated White Paper](#)

Additional links:

- [Solid-State Lighting: Early Lessons Learned on the Way to Market](#)
(U.S. Department of Energy)
- [Lighting Facts®](#)
- [Design Lights Consortium®](#)

IES INDOOR REPORT

PHOTOMETRIC FILENAME : HP-2-ID-4FT-V-V-835-ASY-DSO-ITL89599-ITL94139.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL89599-ITL94139

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]08/24/17

[ISSUEDATE]12/18/2020

[MANUFAC]FINELITE, INC.

[LUMCAT]HP-2-ID-4ft-V-V-835-ASY-DSO

[_INPUT_ELECTRICAL]120.0 VOLTS, 72.5 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 73.2 WATTS

[OTHER]see www.finelite.com for source files ITL89599 and ITL94139. For further details on Finelite family correlation files, go to

[more]http://www.finelite.com/download_files/series_downloads/photometry_pdf/FL_Family_Correlation_WhitePaper.pdf

[_ABSOLUTE LUMENS]7574

[_CONVERT] Photometric web converted from original test data

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	7578
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	105
Total Luminaire Watts	72.5
Ballast Factor	1.00
CIE Type	General Diffuse
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.18 ft
Luminous Width (90-270)	4.00 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	13827	17477	17949
55	12573	16093	16093
65	11280	14298	13902
75	10031	12201	11556
85	8710	9232	8361

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CANDELA TABULATION

	<u>0</u>	<u>5</u>	<u>10</u>	<u>15</u>	<u>20</u>	<u>25</u>	<u>30</u>	<u>35</u>	<u>40</u>	<u>45</u>
0.0	1166	1166	1166	1166	1166	1166	1166	1166	1166	1166
2.5	1164	1164	1164	1164	1164	1164	1164	1165	1165	1165
5.0	1158	1158	1158	1159	1159	1160	1161	1162	1163	1164
7.5	1147	1148	1149	1150	1151	1152	1154	1156	1158	1160
10.0	1133	1134	1135	1136	1137	1140	1145	1149	1154	1158
12.5	1116	1117	1119	1120	1121	1126	1133	1141	1148	1156
15.0	1093	1095	1097	1100	1102	1108	1119	1129	1140	1150
17.5	1069	1072	1075	1078	1081	1089	1102	1115	1129	1142
20.0	1039	1043	1047	1052	1056	1066	1083	1099	1116	1132
22.5	1007	1012	1017	1022	1027	1039	1058	1077	1096	1115
25.0	971	978	985	992	999	1012	1033	1054	1075	1096
27.5	935	943	951	960	968	983	1006	1029	1051	1074
30.0	896	906	916	925	935	952	975	999	1022	1046
32.5	856	867	877	888	899	917	942	967	992	1017
35.0	814	826	837	849	860	879	905	932	958	984
37.5	773	785	797	810	822	841	867	893	919	945
40.0	729	742	755	768	781	801	826	852	877	903
42.5	687	700	713	726	739	759	784	809	835	860
45.0	644	657	670	683	696	715	740	765	789	814
47.5	602	615	628	641	654	672	695	718	741	764
50.0	558	571	584	597	610	627	648	670	691	713
52.5	515	527	539	552	564	580	600	621	641	661
55.0	475	486	497	508	519	534	553	571	590	608
57.5	433	443	454	464	475	488	505	522	538	555
60.0	393	402	411	420	429	442	457	472	487	502
62.5	355	363	371	378	386	397	410	424	437	451
65.0	314	322	329	337	344	354	365	376	387	398
67.5	278	284	290	296	302	310	319	329	338	348
70.0	241	246	251	256	261	268	276	284	292	300
72.5	205	209	213	218	222	227	234	240	247	253
75.0	171	174	177	180	183	188	193	198	203	208
77.5	139	141	143	146	148	151	154	158	161	165
80.0	109	110	111	112	113	115	118	121	123	126
82.5	80	80	81	81	82	83	84	85	87	88
85.0	50	50	51	51	52	52	52	53	53	53
87.5	23	23	23	23	23	23	22	22	21	21
90.0	36	36	36	35	34	32	30	28	26	23
92.5	78	79	79	79	78	77	74	70	67	63
95.0	156	158	158	157	156	154	151	148	146	143
97.5	237	239	239	238	236	234	236	237	236	235
100.0	307	310	312	313	318	322	333	344	344	344
102.5	394	398	405	411	425	438	456	473	473	472
105.0	513	519	534	549	575	600	613	625	620	615
107.5	697	695	721	747	764	781	790	799	784	768
110.0	932	926	944	961	971	980	982	983	949	915
112.5	1164	1157	1171	1184	1185	1186	1169	1152	1094	1035
115.0	1389	1381	1387	1392	1378	1364	1323	1281	1204	1126
117.5	1570	1562	1555	1548	1523	1498	1438	1378	1283	1187
120.0	1699	1692	1678	1663	1625	1587	1513	1438	1331	1224
122.5	1782	1776	1756	1735	1687	1638	1554	1470	1360	1249
125.0	1821	1817	1793	1769	1714	1658	1571	1483	1375	1266
127.5	1829	1826	1800	1774	1716	1657	1572	1486	1382	1277
130.0	1815	1812	1786	1760	1703	1646	1565	1483	1385	1286
132.5	1789	1788	1764	1739	1685	1630	1554	1478	1388	1298

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CANDELA TABULATION - (Cont.)

135.0	1760	1758	1735	1712	1662	1611	1543	1474	1392	1310
137.5	1731	1727	1707	1686	1641	1595	1534	1472	1398	1323
140.0	1700	1698	1681	1663	1623	1582	1527	1472	1404	1336
142.5	1675	1674	1659	1644	1608	1572	1523	1473	1411	1349
145.0	1654	1653	1640	1626	1594	1562	1518	1474	1419	1364
147.5	1635	1633	1622	1610	1582	1553	1514	1475	1427	1378
150.0	1614	1614	1604	1594	1570	1545	1511	1477	1435	1392
152.5	1597	1595	1588	1580	1560	1539	1510	1480	1441	1402
155.0	1583	1580	1574	1568	1550	1532	1506	1479	1444	1408
157.5	1569	1566	1560	1554	1539	1523	1499	1474	1441	1408
160.0	1550	1547	1541	1535	1521	1507	1486	1464	1434	1403
162.5	1525	1523	1517	1511	1499	1487	1467	1446	1420	1393
165.0	1493	1491	1485	1479	1468	1457	1441	1424	1402	1379
167.5	1455	1453	1448	1442	1434	1425	1411	1397	1379	1360
170.0	1411	1409	1405	1401	1394	1386	1376	1366	1353	1339
172.5	1366	1365	1362	1358	1354	1349	1342	1334	1324	1313
175.0	1318	1317	1315	1312	1309	1306	1302	1297	1291	1285
177.5	1269	1269	1268	1267	1266	1264	1262	1260	1258	1255
180.0	1222	1222	1222	1222	1222	1222	1222	1222	1222	1222

Vert. Angles

Horizontal Angles

	<u>50</u>	<u>55</u>	<u>60</u>	<u>65</u>	<u>70</u>	<u>75</u>	<u>80</u>	<u>85</u>	<u>90</u>	<u>95</u>
0.0	1166	1166	1166	1166	1166	1166	1166	1166	1166	1166
2.5	1165	1166	1166	1167	1167	1167	1167	1167	1167	1167
5.0	1165	1166	1167	1168	1169	1170	1170	1171	1171	1171
7.5	1162	1165	1167	1170	1172	1173	1174	1176	1177	1176
10.0	1163	1167	1172	1177	1180	1181	1183	1184	1186	1184
12.5	1162	1169	1175	1182	1186	1188	1189	1191	1193	1191
15.0	1158	1166	1175	1183	1188	1190	1193	1195	1197	1195
17.5	1152	1162	1172	1182	1188	1191	1194	1196	1199	1196
20.0	1143	1154	1165	1176	1183	1186	1189	1192	1195	1192
22.5	1127	1140	1152	1165	1173	1176	1179	1183	1186	1183
25.0	1109	1123	1136	1149	1158	1161	1164	1167	1170	1167
27.5	1088	1101	1115	1128	1137	1140	1143	1146	1149	1146
30.0	1060	1073	1087	1100	1108	1111	1113	1116	1118	1116
32.5	1030	1043	1056	1069	1076	1078	1080	1082	1084	1082
35.0	996	1007	1019	1030	1037	1038	1039	1041	1042	1041
37.5	956	966	977	988	993	994	995	995	996	995
40.0	913	923	932	942	947	946	946	945	945	945
42.5	868	876	883	891	895	894	893	892	891	892
45.0	820	826	833	839	841	840	839	837	836	837
47.5	769	774	779	784	786	785	784	782	781	782
50.0	717	721	724	728	729	727	724	722	720	722
52.5	664	667	670	673	673	671	668	666	664	666
55.0	610	612	613	615	615	613	612	610	608	610
57.5	556	557	558	559	559	556	553	550	547	550
60.0	503	504	505	506	505	502	499	496	493	496
62.5	451	451	450	450	449	447	444	442	440	442
65.0	398	398	397	397	396	394	391	389	387	389
67.5	347	347	346	345	344	342	339	337	335	337
70.0	299	298	297	296	294	292	290	288	286	288
72.5	252	251	250	249	247	245	244	242	240	242
75.0	207	206	205	204	202	201	200	198	197	198
77.5	164	163	162	161	159	158	157	156	155	156
80.0	125	123	122	121	120	119	118	117	116	117

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CANDELA TABULATION - (Cont.)

82.5	87	86	85	84	84	83	82	82	81	82
85.0	52	52	51	50	50	49	49	48	48	48
87.5	21	21	20	20	20	19	19	18	18	18
90.0	20	17	14	11	9	6	4	1	0	1
92.5	63	63	60	56	55	53	48	42	24	30
95.0	141	139	134	129	122	115	101	87	59	63
97.5	233	230	220	210	195	180	154	127	96	96
100.0	339	334	315	295	271	246	206	166	134	129
102.5	459	445	415	384	344	303	254	204	171	163
105.0	588	561	515	469	411	353	299	244	209	196
107.5	725	681	611	541	470	399	341	282	248	232
110.0	847	779	691	602	521	440	381	322	287	269
112.5	945	854	753	652	567	481	420	359	326	306
115.0	1019	911	804	696	608	520	460	400	367	343
117.5	1070	953	843	733	646	558	500	441	409	381
120.0	1105	985	877	768	683	598	541	483	450	420
122.5	1131	1012	907	802	720	638	582	525	491	459
125.0	1152	1037	936	835	757	678	622	566	532	499
127.5	1170	1062	966	870	794	718	662	606	572	538
130.0	1187	1088	997	905	832	759	704	649	614	578
132.5	1205	1112	1027	941	871	800	746	692	656	620
135.0	1224	1138	1057	976	908	840	788	735	699	661
137.5	1244	1165	1089	1012	946	879	829	778	742	703
140.0	1264	1191	1120	1048	984	919	870	821	784	745
142.5	1284	1218	1151	1084	1021	958	912	865	826	787
145.0	1305	1245	1181	1116	1056	996	951	906	868	830
147.5	1324	1270	1209	1147	1090	1033	990	947	909	872
150.0	1342	1291	1233	1174	1121	1068	1027	986	951	913
152.5	1356	1310	1255	1199	1150	1101	1062	1023	990	953
155.0	1366	1323	1272	1220	1175	1130	1094	1058	1027	991
157.5	1370	1332	1285	1238	1198	1157	1125	1092	1062	1028
160.0	1370	1336	1294	1252	1216	1180	1151	1122	1094	1063
162.5	1365	1336	1299	1262	1232	1201	1175	1149	1123	1095
165.0	1355	1331	1300	1269	1243	1217	1195	1172	1149	1125
167.5	1341	1322	1297	1271	1250	1228	1210	1191	1171	1150
170.0	1324	1308	1289	1269	1253	1237	1222	1206	1188	1172
172.5	1302	1291	1278	1264	1252	1240	1228	1216	1202	1190
175.0	1278	1271	1263	1254	1246	1238	1230	1222	1214	1205
177.5	1252	1248	1244	1239	1236	1232	1228	1224	1220	1216
180.0	1222	1222	1222	1222	1222	1222	1222	1222	1222	1222

Vert. Horizontal Angles

	<u>100</u>	<u>105</u>	<u>110</u>	<u>115</u>	<u>120</u>	<u>125</u>	<u>130</u>	<u>135</u>	<u>140</u>	<u>145</u>
0.0	1166	1166	1166	1166	1166	1166	1166	1166	1166	1166
2.5	1167	1167	1167	1167	1166	1166	1165	1165	1165	1165
5.0	1170	1170	1169	1168	1167	1166	1165	1164	1163	1162
7.5	1174	1173	1172	1170	1167	1165	1162	1160	1158	1156
10.0	1183	1181	1180	1177	1172	1167	1163	1158	1154	1149
12.5	1189	1188	1186	1182	1175	1169	1162	1156	1148	1141
15.0	1193	1190	1188	1183	1175	1166	1158	1150	1140	1129
17.5	1194	1191	1188	1182	1172	1162	1152	1142	1129	1115
20.0	1189	1186	1183	1176	1165	1154	1143	1132	1116	1099
22.5	1179	1176	1173	1165	1152	1140	1127	1115	1096	1077
25.0	1164	1161	1158	1149	1136	1123	1109	1096	1075	1054
27.5	1143	1140	1137	1128	1115	1101	1088	1074	1051	1029

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CANDELA TABULATION - (Cont.)

30.0	1113	1111	1108	1100	1087	1073	1060	1046	1022	999
32.5	1080	1078	1076	1069	1056	1043	1030	1017	992	967
35.0	1039	1038	1037	1030	1019	1007	996	984	958	932
37.5	995	994	993	988	977	966	956	945	919	893
40.0	946	946	947	942	932	923	913	903	877	852
42.5	893	894	895	891	883	876	868	860	835	809
45.0	839	840	841	839	833	826	820	814	789	765
47.5	784	785	786	784	779	774	769	764	741	718
50.0	724	727	729	728	724	721	717	713	691	670
52.5	668	671	673	673	670	667	664	661	641	621
55.0	612	613	615	615	613	612	610	608	590	571
57.5	553	556	559	559	558	557	556	555	538	522
60.0	499	502	505	506	505	504	503	502	487	472
62.5	444	447	449	450	450	451	451	451	437	424
65.0	391	394	396	397	397	398	398	398	387	376
67.5	339	342	344	345	346	347	347	348	338	329
70.0	290	292	294	296	297	298	299	300	292	284
72.5	244	245	247	249	250	251	252	253	247	240
75.0	200	201	202	204	205	206	207	208	203	198
77.5	157	158	159	161	162	163	164	165	161	158
80.0	118	119	120	121	122	123	125	126	123	121
82.5	82	83	84	84	85	86	87	88	87	85
85.0	49	49	50	50	51	52	52	53	53	53
87.5	19	19	20	20	20	21	21	21	21	22
90.0	4	6	9	11	13	16	18	20	21	23
92.5	31	32	33	35	37	38	40	42	43	43
95.0	65	66	68	70	73	76	79	82	82	82
97.5	98	100	102	105	110	114	119	123	125	126
100.0	132	134	137	141	146	151	157	162	165	169
102.5	167	171	175	180	186	192	198	204	208	211
105.0	201	207	212	219	228	236	245	253	255	257
107.5	237	242	247	254	263	272	282	291	295	299
110.0	272	275	278	286	297	308	320	331	335	339
112.5	307	308	309	317	330	343	357	370	375	380
115.0	342	341	340	346	361	376	391	406	413	420
117.5	377	372	368	374	390	407	423	439	448	457
120.0	413	405	398	402	419	435	452	468	479	490
122.5	448	438	427	430	446	463	479	495	508	521
125.0	485	472	458	459	474	489	504	519	534	550
127.5	521	504	487	486	499	513	526	540	557	574
130.0	557	537	516	512	523	535	546	558	576	594
132.5	595	570	545	538	547	556	566	575	592	609
135.0	632	603	574	563	570	577	584	591	607	622
137.5	670	637	604	590	594	597	601	605	619	633
140.0	709	673	637	619	619	620	620	620	632	643
142.5	749	712	674	653	648	644	639	635	644	653
145.0	791	752	713	689	679	670	660	650	656	662
147.5	832	793	753	725	710	695	680	665	669	673
150.0	872	831	790	760	741	721	702	682	684	685
152.5	912	872	831	799	775	752	728	704	702	700
155.0	951	912	872	839	813	787	761	735	729	723
157.5	989	950	911	879	854	829	803	778	766	755
160.0	1027	992	956	926	901	876	852	827	811	795
162.5	1063	1032	1000	972	948	924	900	876	860	844
165.0	1098	1072	1045	1020	996	973	949	925	911	898
167.5	1128	1106	1084	1062	1041	1020	999	978	965	952

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CANDELA TABULATION - (Cont.)

170.0	1154	1137	1119	1102	1086	1069	1053	1037	1025	1013
172.5	1177	1165	1152	1140	1128	1117	1105	1093	1084	1075
175.0	1197	1188	1180	1172	1165	1158	1150	1143	1137	1132
177.5	1212	1207	1203	1199	1196	1193	1189	1186	1184	1181
180.0	1222	1222	1222	1222	1222	1222	1222	1222	1222	1222

Vert. Horizontal Angles

	150	155	160	165	170	175	180
0.0	1166	1166	1166	1166	1166	1166	1166
2.5	1164	1164	1164	1164	1164	1164	1164
5.0	1161	1160	1159	1159	1158	1158	1158
7.5	1154	1152	1151	1150	1149	1148	1147
10.0	1145	1140	1137	1136	1135	1134	1133
12.5	1133	1126	1121	1120	1119	1117	1116
15.0	1119	1108	1102	1100	1097	1095	1093
17.5	1102	1089	1081	1078	1075	1072	1069
20.0	1083	1066	1056	1052	1047	1043	1039
22.5	1058	1039	1027	1022	1017	1012	1007
25.0	1033	1012	999	992	985	978	971
27.5	1006	983	968	960	951	943	935
30.0	975	952	935	925	916	906	896
32.5	942	917	899	888	877	867	856
35.0	905	879	860	849	837	826	814
37.5	867	841	822	810	797	785	773
40.0	826	801	781	768	755	742	729
42.5	784	759	739	726	713	700	687
45.0	740	715	696	683	670	657	644
47.5	695	672	654	641	628	615	602
50.0	648	627	610	597	584	571	558
52.5	600	580	564	552	539	527	515
55.0	553	534	519	508	497	486	475
57.5	505	488	475	464	454	443	433
60.0	457	442	429	420	411	402	393
62.5	410	397	386	378	371	363	355
65.0	365	354	344	337	329	322	314
67.5	319	310	302	296	290	284	278
70.0	276	268	261	256	251	246	241
72.5	234	227	222	218	213	209	205
75.0	193	188	183	180	177	174	171
77.5	154	151	148	146	143	141	139
80.0	118	115	113	112	111	110	109
82.5	84	83	82	81	81	80	80
85.0	52	52	52	51	51	50	50
87.5	22	23	23	23	23	23	23
90.0	24	25	26	26	27	27	27
92.5	44	45	45	45	46	46	46
95.0	83	83	83	82	81	80	79
97.5	128	129	130	129	128	128	127
100.0	172	175	177	177	176	176	176
102.5	215	218	220	220	221	221	221
105.0	260	262	263	263	262	262	262
107.5	302	306	307	306	305	304	303
110.0	342	346	348	348	348	348	348
112.5	385	390	392	392	392	392	392
115.0	427	434	437	438	438	439	439

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-ID-4FT-V-V-835-ASY-DSO-ITL89599-ITL94139.IES****CANDELA TABULATION - (Cont.)**

117.5	466	475	479	480	481	482	483
120.0	501	512	519	520	521	523	524
122.5	534	547	555	557	558	560	562
125.0	565	580	589	591	593	595	597
127.5	591	608	618	621	624	627	630
130.0	611	629	640	645	650	654	659
132.5	626	643	654	660	667	673	679
135.0	638	653	664	670	677	683	689
137.5	647	661	671	676	682	687	693
140.0	655	666	675	680	685	690	695
142.5	662	671	677	681	685	689	693
145.0	669	675	679	682	685	688	691
147.5	676	680	683	685	687	689	691
150.0	687	688	689	690	691	691	692
152.5	699	697	696	696	696	696	696
155.0	717	711	707	706	705	703	702
157.5	743	732	725	723	720	718	716
160.0	779	763	753	749	745	741	737
162.5	828	812	801	795	788	782	776
165.0	884	871	861	855	848	842	836
167.5	939	926	918	913	908	904	899
170.0	1000	988	980	975	970	966	961
172.5	1066	1057	1051	1047	1044	1040	1036
175.0	1126	1121	1117	1115	1112	1110	1108
177.5	1179	1176	1174	1173	1172	1170	1169
180.0	1222	1222	1222	1222	1222	1222	1222

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-ID-4FT-V-V-835-ASY-DSO-ITL89599-ITL94139.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	434.77	N.A.	5.70
0-30	932.63	N.A.	12.30
0-40	1528.25	N.A.	20.20
0-60	2637.33	N.A.	34.80
0-80	3215.21	N.A.	42.40
0-90	3276.23	N.A.	43.20
10-90	3165.32	N.A.	41.80
20-40	1093.48	N.A.	14.40
20-50	1690.57	N.A.	22.30
40-70	1479.54	N.A.	19.50
60-80	577.87	N.A.	7.60
70-80	207.42	N.A.	2.70
80-90	61.03	N.A.	0.80
90-110	518.34	N.A.	6.80
90-120	1202.92	N.A.	15.90
90-130	1988.07	N.A.	26.20
90-150	3362.1	N.A.	44.40
90-180	4301.5	N.A.	56.80
110-180	3783.16	N.A.	49.90
0-180	7577.73	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	110.92
10-20	323.86
20-30	497.86
30-40	595.62
40-50	597.09
50-60	512.00
60-70	370.45
70-80	207.42
80-90	61.03
90-100	121.36
100-110	396.98
110-120	684.58
120-130	785.16
130-140	738.19
140-150	635.85
150-160	498.40
160-170	325.97
170-180	115.03

IES INDOOR REPORT

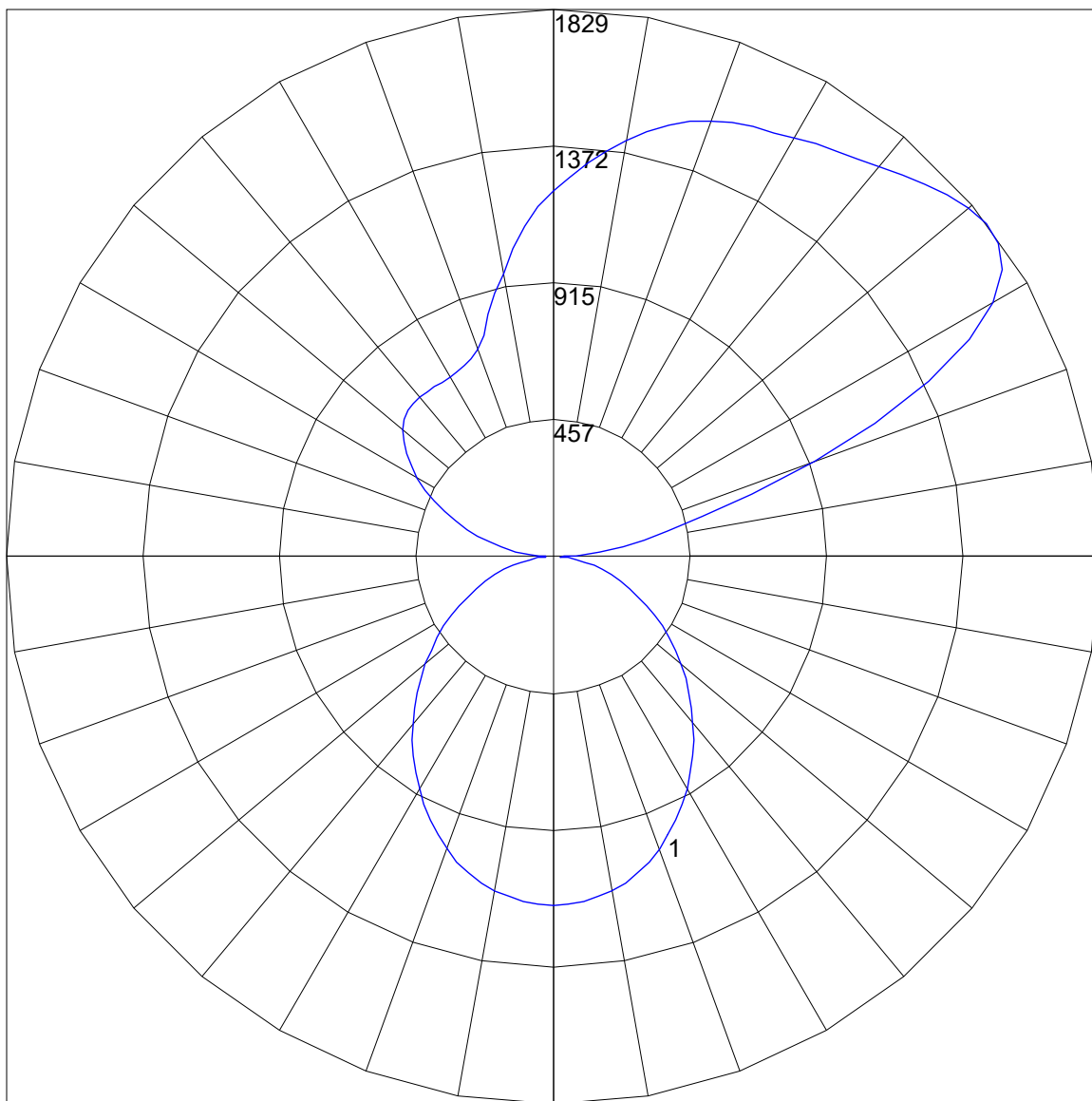
PHOTOMETRIC FILENAME : HP-2-ID-4FT-V-V-835-ASY-DSO-ITL89599-ITL94139.IES

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	106	106	106	106	96	96	96	96	80	80	80	64	64	64	50	50	50	43
1	96	92	88	85	88	84	81	78	70	67	65	56	55	53	44	43	42	36
2	88	80	74	69	80	74	68	64	61	57	54	49	47	44	39	37	35	30
3	80	71	63	57	73	65	58	53	54	49	45	44	40	38	34	32	30	26
4	73	62	55	49	66	57	50	45	48	43	39	39	35	32	31	28	26	22
5	67	55	47	42	61	51	44	39	43	37	33	35	31	28	28	25	23	19
6	62	50	42	36	56	46	39	34	38	33	29	31	27	24	25	22	20	17
7	57	45	37	31	52	41	34	29	35	29	25	29	24	21	23	20	18	15
8	53	41	33	28	48	38	31	26	32	26	22	26	22	19	21	18	16	13
9	49	37	30	25	45	34	28	23	29	24	20	24	20	17	19	16	14	12
10	46	34	27	22	42	31	25	21	27	22	18	22	18	15	18	15	13	11

POLAR GRAPH



Maximum Candela = 1829 Located At Horizontal Angle = 0, Vertical Angle = 127.5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)