

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 : HP3-P-ID-4FT-B-V-835-F-F-KPL2008-50.008.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST] KPL2008-50.008 Family Correlation File
[TESTLAB] Northern Lights Testing Laboratories
[ISSUEDATE] 1/18/2024
[TESTDATE] 11/27/2024
[MANUFAC] Finelite, Inc.
[LUMCAT] HP3-P-ID-4ft-B-V-835-F-F
[LUMINAIRE] HP3 Series
[LAMPCAT] 320 LM561B+ LEDs with 80 CRI
[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 58.24 WATTS
[ABSOLUTELUMENS]7556
[LAMP] Samsung
[BALLAST] Osram
[BALLASTCAT] x2 @ 700mA

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	7559
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	130
Total Luminaire Watts	58.2
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)	4.00 ft
Luminous Width (90-270)	0.25 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	15072	14384	13685
55	13712	12920	12257
65	12383	11637	11008
75	11050	10295	9935
85	9932	9322	8733

CANDELA TABULATION

	<u>0</u>	<u>15</u>	<u>30</u>	<u>45</u>	<u>60</u>	<u>75</u>	<u>90</u>	<u>105</u>	<u>120</u>	<u>135</u>
0.0	1739.962	1739.962	1739.962	1739.962	1739.962	1739.962	1739.962	1739.962	1739.962	1739.962
2.5	1728.055	1754.009	1732.722	1733.684	1735.199	1732.662	1737.737	1732.662	1735.199	1733.684
5.0	1719.721	1745.181	1723.834	1724.134	1724.255	1721.777	1726.612	1721.777	1724.255	1724.134
7.5	1707.020	1730.425	1708.704	1707.321	1706.960	1703.629	1707.862	1703.629	1706.960	1707.321
10.0	1695.523	1719.288	1691.963	1685.613	1683.003	1677.446	1681.860	1677.446	1683.003	1685.613
12.5	1662.990	1688.331	1663.832	1663.651	1651.925	1646.056	1648.233	1646.056	1651.925	1663.651
15.0	1631.660	1654.042	1628.208	1627.908	1618.298	1608.256	1609.891	1608.256	1618.298	1627.908
17.5	1595.856	1616.242	1589.506	1584.851	1580.438	1563.925	1565.861	1563.925	1580.438	1584.851
20.0	1556.552	1575.422	1548.506	1537.562	1532.547	1517.669	1517.477	1517.669	1532.547	1537.562
22.5	1513.364	1527.219	1501.758	1486.580	1476.598	1466.074	1464.378	1466.074	1476.598	1486.580
25.0	1472.124	1482.106	1450.776	1434.443	1419.025	1408.201	1408.261	1408.201	1419.025	1434.443
27.5	1411.412	1425.856	1398.219	1380.924	1362.727	1350.027	1345.240	1350.027	1362.727	1380.924
30.0	1357.460	1361.513	1339.383	1322.077	1300.969	1287.608	1283.675	1287.608	1300.969	1322.077
32.5	1298.805	1309.930	1277.024	1263.181	1239.103	1224.527	1218.850	1224.527	1239.103	1263.181
35.0	1241.581	1249.146	1219.211	1197.500	1186.009	1158.915	1157.040	1158.915	1186.009	1197.500
37.5	1181.594	1184.074	1156.194	1133.576	1110.352	1094.628	1090.153	1094.628	1110.352	1133.576
40.0	1114.224	1118.819	1091.303	1067.656	1045.461	1030.342	1023.629	1030.342	1045.461	1067.656
42.5	1050.843	1052.113	1025.806	1004.700	981.416	966.297	959.523	966.297	981.416	1004.700
45.0	986.859	988.916	961.217	941.804	915.497	900.741	896.023	900.741	915.497	941.804
47.5	921.060	921.060	897.354	876.247	851.331	836.332	831.797	836.332	851.331	876.247
50.0	854.899	857.076	830.769	810.993	786.560	774.223	768.780	774.223	786.560	810.993
52.5	789.342	791.700	766.784	748.037	726.628	712.658	709.271	712.658	726.628	748.037
55.0	728.261	727.111	706.066	686.170	667.966	657.805	650.972	657.805	667.966	686.170
57.5	666.454	661.555	642.505	626.418	608.819	596.723	592.551	596.723	608.819	626.418
60.0	603.558	599.385	584.024	565.579	550.338	540.420	535.824	540.420	550.338	565.579
62.5	544.048	540.178	525.301	507.666	490.339	483.990	481.432	483.990	490.339	507.666
65.0	484.587	480.457	468.767	455.390	439.526	434.296	430.776	434.296	439.526	455.390
67.5	425.975	423.555	412.839	399.134	387.825	382.745	380.375	382.745	387.825	399.134
70.0	372.343	368.461	356.504	347.826	339.335	332.900	331.510	332.900	339.335	347.826
72.5	315.846	306.387	305.444	296.148	288.208	283.951	283.116	283.951	288.208	296.148
75.0	264.816	262.324	255.544	246.733	243.509	237.662	238.085	237.662	243.509	246.733
77.5	217.353	213.658	207.278	200.818	197.354	193.126	193.429	193.126	197.354	200.818
80.0	169.480	166.613	161.303	158.431	154.107	151.899	150.623	151.899	154.107	158.431
82.5	123.711	122.332	120.198	117.294	115.493	113.999	117.905	113.999	115.493	117.294
85.0	80.155	78.735	75.928	75.227	73.939	72.451	70.480	72.451	73.939	75.227
87.5	41.886	38.886	37.151	35.839	33.940	34.097	34.483	34.097	33.940	35.839
90.0	2.403	2.341	2.660	2.517	3.030	3.206	2.438	3.206	3.030	2.517
92.5	33.674	35.053	35.095	34.107	34.825	33.069	35.010	33.069	34.825	34.107
95.0	70.407	70.609	71.697	70.966	71.773	67.996	67.197	67.996	71.773	70.966
97.5	101.846	102.065	100.241	99.207	98.900	98.581	99.896	98.581	98.900	99.207
100.0	139.377	138.272	135.277	134.688	134.403	132.894	132.822	132.894	134.403	134.688
102.5	175.859	175.544	173.043	171.812	169.493	168.303	168.261	168.303	169.493	171.812
105.0	214.222	214.562	212.180	210.037	208.197	206.751	207.650	206.751	208.197	210.037
107.5	257.224	255.014	251.812	249.682	248.064	246.842	245.131	246.842	248.064	249.682
110.0	299.193	298.151	295.445	291.919	288.592	288.655	288.125	288.655	288.592	291.919
112.5	339.809	343.809	339.565	335.002	332.573	329.346	329.984	329.346	332.573	335.002
115.0	383.634	389.517	383.760	389.139	376.113	372.121	373.886	372.121	376.113	389.139
117.5	432.713	435.948	428.847	427.460	422.292	418.216	419.939	418.216	422.292	427.460
120.0	479.018	483.304	477.253	474.858	469.185	465.152	464.563	465.152	469.185	474.858
122.5	529.441	531.080	526.542	522.633	514.902	514.860	510.028	514.860	514.902	522.633
125.0	577.427	581.755	577.259	573.098	562.341	563.687	559.358	563.687	562.341	573.098
127.5	628.017	631.716	625.749	620.160	613.815	613.101	609.781	613.101	613.815	620.160
130.0	676.423	682.223	676.970	671.760	664.196	663.103	662.473	663.103	664.196	671.760
132.5	725.334	733.108	724.955	721.804	713.989	713.148	717.098	713.148	713.989	721.804

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CANDELA TABULATION - (Cont.)

135.0	773.824	783.783	774.202	771.975	767.185	765.294	768.698	765.294	767.185	771.975
137.5	825.087	831.853	820.969	819.288	820.255	814.708	819.709	814.708	820.255	819.288
140.0	872.232	883.497	870.386	868.957	869.584	865.974	870.135	865.974	869.584	868.957
142.5	918.451	928.913	918.793	917.197	917.448	913.663	915.092	913.663	917.448	917.197
145.0	966.441	973.794	964.293	962.405	963.165	961.861	963.583	961.861	963.165	962.405
147.5	1009.551	1018.500	1010.311	1010.269	1010.227	1006.400	1008.715	1006.400	1010.227	1010.269
150.0	1053.839	1062.287	1051.148	1051.532	1051.783	1049.092	1052.744	1049.092	1051.783	1051.532
152.5	1090.564	1103.341	1092.921	1094.266	1092.921	1089.553	1094.174	1089.553	1092.921	1094.266
155.0	1127.958	1142.665	1130.691	1130.440	1130.942	1125.101	1131.410	1125.101	1130.942	1130.440
157.5	1163.172	1179.684	1166.489	1163.380	1164.099	1164.768	1164.099	1164.768	1164.099	1163.380
160.0	1196.956	1211.579	1195.778	1192.836	1194.474	1189.185	1192.168	1189.185	1194.474	1192.836
162.5	1222.927	1238.637	1222.969	1220.863	1222.584	1215.991	1219.735	1215.991	1222.584	1220.863
165.0	1247.043	1261.332	1247.252	1244.779	1246.116	1240.575	1244.862	1240.575	1246.116	1244.779
167.5	1266.873	1281.922	1268.093	1265.828	1266.998	1262.552	1267.215	1262.552	1266.998	1265.828
170.0	1283.268	1299.696	1285.240	1282.883	1285.365	1280.284	1285.615	1280.284	1285.365	1282.883
172.5	1296.203	1313.517	1299.228	1296.671	1299.353	1294.022	1299.654	1294.022	1299.353	1296.671
175.0	1305.704	1323.394	1309.272	1306.414	1309.230	1304.693	1310.241	1304.693	1309.230	1306.414
177.5	1311.587	1329.110	1314.904	1312.130	1315.280	1310.409	1316.542	1310.409	1315.280	1312.130
180.0	1317.862	1317.862	1317.862	1317.862	1317.862	1317.862	1317.862	1317.862	1317.862	1317.862

**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>
0.0	1739.962	1739.962	1739.962	1739.962	1739.962	1739.962	1739.962	1739.962	1739.962	1739.962
2.5	1732.722	1754.009	1728.055	1754.009	1732.722	1733.684	1735.199	1732.662	1737.737	1732.662
5.0	1723.834	1745.181	1719.721	1745.181	1723.834	1724.134	1724.255	1721.777	1726.612	1721.777
7.5	1708.704	1730.425	1707.020	1730.425	1708.704	1707.321	1706.960	1703.629	1707.862	1703.629
10.0	1691.963	1719.288	1695.523	1719.288	1691.963	1685.613	1683.003	1677.446	1681.860	1677.446
12.5	1663.832	1688.331	1662.990	1688.331	1663.832	1663.651	1651.925	1646.056	1648.233	1646.056
15.0	1628.208	1654.042	1631.660	1654.042	1628.208	1627.908	1618.298	1608.256	1609.891	1608.256
17.5	1589.506	1616.242	1595.856	1616.242	1589.506	1584.851	1580.438	1563.925	1565.861	1563.925
20.0	1548.506	1575.422	1556.552	1575.422	1548.506	1537.562	1532.547	1517.669	1517.477	1517.669
22.5	1501.758	1527.219	1513.364	1527.219	1501.758	1486.580	1476.598	1466.074	1464.378	1466.074
25.0	1450.776	1482.106	1472.124	1482.106	1450.776	1434.443	1419.025	1408.201	1408.261	1408.201
27.5	1398.219	1425.856	1411.412	1425.856	1398.219	1380.924	1362.727	1350.027	1345.240	1350.027
30.0	1339.383	1361.513	1357.460	1361.513	1339.383	1322.077	1300.969	1287.608	1283.675	1287.608
32.5	1277.024	1309.930	1298.805	1309.930	1277.024	1263.181	1239.103	1224.527	1218.850	1224.527
35.0	1219.211	1249.146	1241.581	1249.146	1219.211	1197.500	1186.009	1158.915	1157.040	1158.915
37.5	1156.194	1184.074	1181.594	1184.074	1156.194	1133.576	1110.352	1094.628	1090.153	1094.628
40.0	1091.303	1118.819	1114.224	1118.819	1091.303	1067.656	1045.461	1030.342	1023.629	1030.342
42.5	1025.806	1052.113	1050.843	1052.113	1025.806	1004.700	981.416	966.297	959.523	966.297
45.0	961.217	988.916	986.859	988.916	961.217	941.804	915.497	900.741	896.023	900.741
47.5	897.354	921.060	921.060	921.060	897.354	876.247	851.331	836.332	831.797	836.332
50.0	830.769	857.076	854.899	857.076	830.769	810.993	786.560	774.223	768.780	774.223
52.5	766.784	791.700	789.342	791.700	766.784	748.037	726.628	712.658	709.271	712.658
55.0	706.066	727.111	728.261	727.111	706.066	686.170	667.966	657.805	650.972	657.805
57.5	642.505	661.555	666.454	661.555	642.505	626.418	608.819	596.723	592.551	596.723
60.0	584.024	599.385	603.558	599.385	584.024	565.579	550.338	540.420	535.824	540.420
62.5	525.301	540.178	544.048	540.178	525.301	507.666	490.339	483.990	481.432	483.990
65.0	468.767	480.457	484.587	480.457	468.767	455.390	439.526	434.296	430.776	434.296
67.5	412.839	423.555	425.975	423.555	412.839	399.134	387.825	382.745	380.375	382.745
70.0	356.504	368.461	372.343	368.461	356.504	347.826	339.335	332.900	331.510	332.900
72.5	305.444	306.387	315.846	306.387	305.444	296.148	288.208	283.951	283.116	283.951
75.0	255.544	262.324	264.816	262.324	255.544	246.733	243.509	237.662	238.085	237.662
77.5	207.278	213.658	217.353	213.658	207.278	200.818	197.354	193.126	193.429	193.126
80.0	161.303	166.613	169.480	166.613	161.303	158.431	154.107	151.899	150.623	151.899

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CANDELA TABULATION - (Cont.)

82.5	120.198	122.332	123.711	122.332	120.198	117.294	115.493	113.999	117.905	113.999
85.0	75.928	78.735	80.155	78.735	75.928	75.227	73.939	72.451	70.480	72.451
87.5	37.151	38.886	41.886	38.886	37.151	35.839	33.940	34.097	34.483	34.097
90.0	2.660	2.341	2.403	2.341	2.660	2.517	3.030	3.206	2.438	3.206
92.5	35.095	35.053	33.674	35.053	35.095	34.107	34.825	33.069	35.010	33.069
95.0	71.697	70.609	70.407	70.609	71.697	70.966	71.773	67.996	67.197	67.996
97.5	100.241	102.065	101.846	102.065	100.241	99.207	98.900	98.581	99.896	98.581
100.0	135.277	138.272	139.377	138.272	135.277	134.688	134.403	132.894	132.822	132.894
102.5	173.043	175.544	175.859	175.544	173.043	171.812	169.493	168.303	168.261	168.303
105.0	212.180	214.562	214.222	214.562	212.180	210.037	208.197	206.751	207.650	206.751
107.5	251.812	255.014	257.224	255.014	251.812	249.682	248.064	246.842	245.131	246.842
110.0	295.445	298.151	299.193	298.151	295.445	291.919	288.592	288.655	288.125	288.655
112.5	339.565	343.809	339.809	343.809	339.565	335.002	332.573	329.346	329.984	329.346
115.0	383.760	389.517	383.634	389.517	383.760	389.139	376.113	372.121	373.886	372.121
117.5	428.847	435.948	432.713	435.948	428.847	427.460	422.292	418.216	419.939	418.216
120.0	477.253	483.304	479.018	483.304	477.253	474.858	469.185	465.152	464.563	465.152
122.5	526.542	531.080	529.441	531.080	526.542	522.633	514.902	514.860	510.028	514.860
125.0	577.259	581.755	577.427	581.755	577.259	573.098	562.341	563.687	559.358	563.687
127.5	625.749	631.716	628.017	631.716	625.749	620.160	613.815	613.101	609.781	613.101
130.0	676.970	682.223	676.423	682.223	676.970	671.760	664.196	663.103	662.473	663.103
132.5	724.955	733.108	725.334	733.108	724.955	721.804	713.989	713.148	717.098	713.148
135.0	774.202	783.783	773.824	783.783	774.202	771.975	767.185	765.294	768.698	765.294
137.5	820.969	831.853	825.087	831.853	820.969	819.288	820.255	814.708	819.709	814.708
140.0	870.386	883.497	872.232	883.497	870.386	868.957	869.584	865.974	870.135	865.974
142.5	918.793	928.913	918.451	928.913	918.793	917.197	917.448	913.663	915.092	913.663
145.0	964.293	973.794	966.441	973.794	964.293	962.405	963.165	961.861	963.583	961.861
147.5	1010.311	1018.500	1009.551	1018.500	1010.311	1010.269	1010.227	1006.400	1008.715	1006.400
150.0	1051.148	1062.287	1053.839	1062.287	1051.148	1051.532	1051.783	1049.092	1052.744	1049.092
152.5	1092.921	1103.341	1090.564	1103.341	1092.921	1094.266	1092.921	1089.553	1094.174	1089.553
155.0	1130.691	1142.665	1127.958	1142.665	1130.691	1130.440	1130.942	1125.101	1131.410	1125.101
157.5	1166.489	1179.684	1163.172	1179.684	1166.489	1163.380	1164.099	1164.768	1164.099	1164.768
160.0	1195.778	1211.579	1196.956	1211.579	1195.778	1192.836	1194.474	1189.185	1192.168	1189.185
162.5	1222.969	1238.637	1222.927	1238.637	1222.969	1220.863	1222.584	1215.991	1219.735	1215.991
165.0	1247.252	1261.332	1247.043	1261.332	1247.252	1244.779	1246.116	1240.575	1244.862	1240.575
167.5	1268.093	1281.922	1266.873	1281.922	1268.093	1265.828	1266.998	1262.552	1267.215	1262.552
170.0	1285.240	1299.696	1283.268	1299.696	1285.240	1282.883	1285.365	1280.284	1285.615	1280.284
172.5	1299.228	1313.517	1296.203	1313.517	1299.228	1296.671	1299.353	1294.022	1299.654	1294.022
175.0	1309.272	1323.394	1305.704	1323.394	1309.272	1306.414	1309.230	1304.693	1310.241	1304.693
177.5	1314.904	1329.110	1311.587	1329.110	1314.904	1312.130	1315.280	1310.409	1316.542	1310.409
180.0	1317.862	1317.862	1317.862	1317.862	1317.862	1317.862	1317.862	1317.862	1317.862	1317.862

**Vert.
Angles**

Horizontal Angles

	<u>300</u>	<u>315</u>	<u>330</u>	<u>345</u>	<u>360</u>
0.0	1739.962	1739.962	1739.962	1739.962	1739.962
2.5	1735.199	1733.684	1732.722	1754.009	1728.055
5.0	1724.255	1724.134	1723.834	1745.181	1719.721
7.5	1706.960	1707.321	1708.704	1730.425	1707.020
10.0	1683.003	1685.613	1691.963	1719.288	1695.523
12.5	1651.925	1663.651	1663.832	1688.331	1662.990
15.0	1618.298	1627.908	1628.208	1654.042	1631.660
17.5	1580.438	1584.851	1589.506	1616.242	1595.856
20.0	1532.547	1537.562	1548.506	1575.422	1556.552
22.5	1476.598	1486.580	1501.758	1527.219	1513.364
25.0	1419.025	1434.443	1450.776	1482.106	1472.124
27.5	1362.727	1380.924	1398.219	1425.856	1411.412

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

30.0	1300.969	1322.077	1339.383	1361.513	1357.460
32.5	1239.103	1263.181	1277.024	1309.930	1298.805
35.0	1186.009	1197.500	1219.211	1249.146	1241.581
37.5	1110.352	1133.576	1156.194	1184.074	1181.594
40.0	1045.461	1067.656	1091.303	1118.819	1114.224
42.5	981.416	1004.700	1025.806	1052.113	1050.843
45.0	915.497	941.804	961.217	988.916	986.859
47.5	851.331	876.247	897.354	921.060	921.060
50.0	786.560	810.993	830.769	857.076	854.899
52.5	726.628	748.037	766.784	791.700	789.342
55.0	667.966	686.170	706.066	727.111	728.261
57.5	608.819	626.418	642.505	661.555	666.454
60.0	550.338	565.579	584.024	599.385	603.558
62.5	490.339	507.666	525.301	540.178	544.048
65.0	439.526	455.390	468.767	480.457	484.587
67.5	387.825	399.134	412.839	423.555	425.975
70.0	339.335	347.826	356.504	368.461	372.343
72.5	288.208	296.148	305.444	306.387	315.846
75.0	243.509	246.733	255.544	262.324	264.816
77.5	197.354	200.818	207.278	213.658	217.353
80.0	154.107	158.431	161.303	166.613	169.480
82.5	115.493	117.294	120.198	122.332	123.711
85.0	73.939	75.227	75.928	78.735	80.155
87.5	33.940	35.839	37.151	38.886	41.886
90.0	3.030	2.517	2.660	2.341	2.403
92.5	34.825	34.107	35.095	35.053	33.674
95.0	71.773	70.966	71.697	70.609	70.407
97.5	98.900	99.207	100.241	102.065	101.846
100.0	134.403	134.688	135.277	138.272	139.377
102.5	169.493	171.812	173.043	175.544	175.859
105.0	208.197	210.037	212.180	214.562	214.222
107.5	248.064	249.682	251.812	255.014	257.224
110.0	288.592	291.919	295.445	298.151	299.193
112.5	332.573	335.002	339.565	343.809	339.809
115.0	376.113	389.139	383.760	389.517	383.634
117.5	422.292	427.460	428.847	435.948	432.713
120.0	469.185	474.858	477.253	483.304	479.018
122.5	514.902	522.633	526.542	531.080	529.441
125.0	562.341	573.098	577.259	581.755	577.427
127.5	613.815	620.160	625.749	631.716	628.017
130.0	664.196	671.760	676.970	682.223	676.423
132.5	713.989	721.804	724.955	733.108	725.334
135.0	767.185	771.975	774.202	783.783	773.824
137.5	820.255	819.288	820.969	831.853	825.087
140.0	869.584	868.957	870.386	883.497	872.232
142.5	917.448	917.197	918.793	928.913	918.451
145.0	963.165	962.405	964.293	973.794	966.441
147.5	1010.227	1010.269	1010.311	1018.500	1009.551
150.0	1051.783	1051.532	1051.148	1062.287	1053.839
152.5	1092.921	1094.266	1092.921	1103.341	1090.564
155.0	1130.942	1130.440	1130.691	1142.665	1127.958
157.5	1164.099	1163.380	1166.489	1179.684	1163.172
160.0	1194.474	1192.836	1195.778	1211.579	1196.956
162.5	1222.584	1220.863	1222.969	1238.637	1222.927
165.0	1246.116	1244.779	1247.252	1261.332	1247.043
167.5	1266.998	1265.828	1268.093	1281.922	1266.873

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP3-P-ID-4FT-B-V-835-F-F-KPL2008-50.008.IES****CANDELA TABULATION - (Cont.)**

170.0	1285.365	1282.883	1285.240	1299.696	1283.268
172.5	1299.353	1296.671	1299.228	1313.517	1296.203
175.0	1309.230	1306.414	1309.272	1323.394	1305.704
177.5	1315.280	1312.130	1314.904	1329.110	1311.587
180.0	1317.862	1317.862	1317.862	1317.862	1317.862

IES INDOOR REPORT
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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	621.44	N.A.	8.20
0-30	1283.24	N.A.	17.00
0-40	2033.33	N.A.	26.90
0-60	3375.62	N.A.	44.70
0-80	4092.08	N.A.	54.10
0-90	4176.61	N.A.	55.30
10-90	4012.93	N.A.	53.10
20-40	1411.89	N.A.	18.70
20-50	2138.13	N.A.	28.30
40-70	1794.16	N.A.	23.70
60-80	716.46	N.A.	9.50
70-80	264.59	N.A.	3.50
80-90	84.54	N.A.	1.10
90-110	297.77	N.A.	3.90
90-120	675.59	N.A.	8.90
90-130	1186.56	N.A.	15.70
90-150	2385.58	N.A.	31.60
90-180	3382.41	N.A.	44.70
110-180	3084.64	N.A.	40.80
0-180	7559.02	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	163.68
10-20	457.76
20-30	661.80
30-40	750.09
40-50	726.24
50-60	616.05
60-70	451.87
70-80	264.59
80-90	84.54
90-100	74.48
100-110	223.29
110-120	377.82
120-130	510.97
130-140	595.50
140-150	603.52
150-160	520.81
160-170	351.72
170-180	124.30

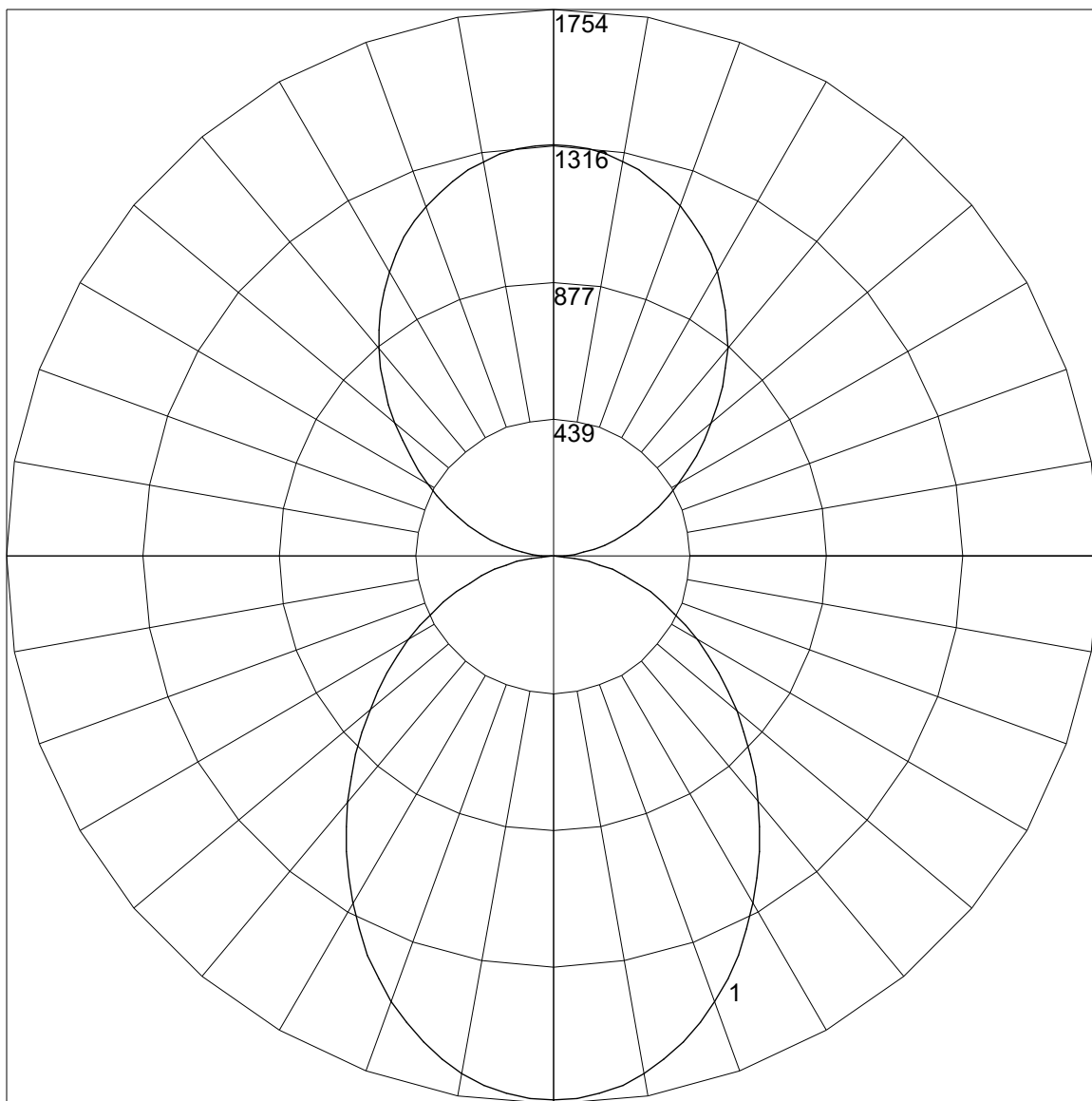
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	10	0
0	108	108	108	108	101	101	101	101	86	86	86	73	73	73	61	61	61	55
1	99	95	91	87	92	88	85	82	76	73	71	64	63	61	54	53	52	47
2	90	83	77	71	84	77	72	67	66	62	59	57	54	51	48	45	44	39
3	82	73	66	60	76	68	61	56	59	54	50	50	46	43	42	40	37	33
4	75	65	57	51	70	60	53	48	52	47	43	45	41	37	38	35	32	29
5	69	58	50	44	64	54	47	41	47	41	37	40	36	32	34	31	28	25
6	64	52	44	38	59	49	41	36	42	37	32	37	32	29	31	28	25	22
7	59	47	39	33	55	44	37	32	39	33	28	33	29	25	28	25	22	20
8	55	43	35	30	51	40	33	28	35	29	25	31	26	23	26	23	20	18
9	51	39	32	26	48	37	30	25	32	27	23	28	24	20	24	21	18	16
10	48	36	29	24	45	34	27	23	30	24	21	26	22	19	23	19	16	15

POLAR GRAPH



Maximum Candela = 1754.009 Located At Horizontal Angle = 15, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (90 - 270)