

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-H-V-835-F-F-KPL2008-50.004.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST] KPL2008-50.004 Family Correlation File
[TESTLAB] Northern Lights Testing Laboratories
[ISSUEDATE] 1/18/2024
[TESTDATE] 11/27/2024
[MANUFAC] Finelite, Inc.
[LUMCAT] HP3-P-ID-4ft-H-V-835-F-F
[LUMINAIRE] HP3 Series
[LAMPCAT] 320 LM561B+ LEDs with 80 CRI
[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 61.24 WATTS
[ABSOLUTELUMENS]7981
[LAMP] Samsung
[BALLAST] Osram
[BALLASTCAT] x2 @ 700mA

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	7984
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	130
Total Luminaire Watts	61.2
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	2.705	2.635	2.994	2.833	3.411	3.609	2.744	3.609	3.411	2.833
92.5	37.905	39.457	39.504	38.392	39.201	37.224	39.409	37.224	39.201	38.392
95.0	79.253	79.480	80.705	79.882	80.790	76.538	75.639	76.538	80.790	79.882
97.5	114.642	114.888	112.835	111.671	111.326	110.967	112.447	110.967	111.326	111.671
100.0	156.888	155.645	152.273	151.610	151.289	149.591	149.510	149.591	151.289	151.610
102.5	197.953	197.599	194.784	193.398	190.788	189.448	189.401	189.448	190.788	193.398
105.0	241.137	241.519	238.838	236.425	234.354	232.727	233.739	232.727	234.354	236.425
107.5	289.541	287.053	283.449	281.051	279.230	277.854	275.929	277.854	279.230	281.051
110.0	336.783	335.610	332.564	328.595	324.850	324.921	324.324	324.921	324.850	328.595
112.5	382.502	387.005	382.227	377.090	374.357	370.724	371.443	370.724	374.357	377.090
115.0	431.833	438.455	431.975	438.030	423.368	418.873	420.860	418.873	423.368	438.030
117.5	487.078	490.720	482.727	481.165	475.348	470.760	472.699	470.760	475.348	481.165
120.0	539.201	544.025	537.214	534.518	528.133	523.592	522.930	523.592	528.133	534.518
122.5	595.959	597.804	592.695	588.296	579.593	579.546	574.107	579.546	579.593	588.296
125.0	649.974	654.845	649.785	645.101	632.993	634.507	629.635	634.507	632.993	645.101
127.5	706.920	711.083	704.366	698.076	690.933	690.129	686.393	690.129	690.933	698.076
130.0	761.408	767.936	762.023	756.158	747.645	746.414	745.705	746.414	747.645	756.158
132.5	816.463	825.214	816.037	812.490	803.693	802.747	807.193	802.747	803.693	812.490

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CANDELA TABULATION - (Cont.)

135.0	871.045	882.255	871.471	868.965	863.572	861.444	865.276	861.444	863.572	868.965
137.5	928.750	936.365	924.114	922.222	923.310	917.066	922.695	917.066	923.310	922.222
140.0	981.818	994.497	979.739	978.131	978.836	974.773	979.457	974.773	978.836	978.131
142.5	1033.843	1045.620	1034.229	1032.432	1032.714	1028.453	1030.062	1028.453	1032.714	1032.432
145.0	1087.862	1096.140	1085.445	1083.319	1084.175	1082.708	1084.645	1082.708	1084.175	1083.319
147.5	1136.388	1146.462	1137.244	1137.197	1137.150	1132.842	1135.448	1132.842	1137.150	1137.197
150.0	1186.241	1195.750	1183.212	1183.645	1183.927	1180.898	1185.009	1180.898	1183.927	1183.645
152.5	1227.581	1241.962	1230.233	1231.747	1230.233	1226.442	1231.644	1226.442	1230.233	1231.747
155.0	1269.673	1286.228	1272.749	1272.466	1273.031	1266.456	1273.558	1266.456	1273.031	1272.466
157.5	1309.310	1327.897	1313.044	1309.545	1310.354	1311.107	1310.354	1311.107	1310.354	1309.545
160.0	1347.339	1363.800	1346.013	1342.702	1344.545	1338.591	1341.949	1338.591	1344.545	1342.702
162.5	1376.573	1394.257	1376.620	1374.250	1376.187	1368.766	1372.980	1368.766	1376.187	1374.250
165.0	1403.719	1419.804	1403.954	1401.170	1402.675	1396.439	1401.264	1396.439	1402.675	1401.170
167.5	1426.040	1442.980	1427.413	1424.864	1426.181	1421.177	1426.425	1421.177	1426.181	1424.864
170.0	1444.495	1462.987	1446.714	1444.062	1446.855	1441.137	1447.138	1441.137	1446.855	1444.062
172.5	1459.055	1478.545	1462.460	1459.582	1462.601	1456.600	1462.940	1456.600	1462.601	1459.582
175.0	1469.750	1489.663	1473.766	1470.549	1473.719	1468.612	1474.858	1468.612	1473.719	1470.549
177.5	1476.372	1496.096	1480.106	1476.983	1480.529	1475.046	1481.950	1475.046	1480.529	1476.983
180.0	1483.436	1483.436	1483.436	1483.436	1483.436	1483.436	1483.436	1483.436	1483.436	1483.436

**Vert.
Angles**

Horizontal Angles

	150	165	180	195	210	225	240	255	270	285
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	2.994	2.635	2.705	2.635	2.994	2.833	3.411	3.609	2.744	3.609
92.5	39.504	39.457	37.905	39.457	39.504	38.392	39.201	37.224	39.409	37.224
95.0	80.705	79.480	79.253	79.480	80.705	79.882	80.790	76.538	75.639	76.538
97.5	112.835	114.888	114.642	114.888	112.835	111.671	111.326	110.967	112.447	110.967
100.0	152.273	155.645	156.888	155.645	152.273	151.610	151.289	149.591	149.510	149.591
102.5	194.784	197.599	197.953	197.599	194.784	193.398	190.788	189.448	189.401	189.448
105.0	238.838	241.519	241.137	241.519	238.838	236.425	234.354	232.727	233.739	232.727
107.5	283.449	287.053	289.541	287.053	283.449	281.051	279.230	277.854	275.929	277.854
110.0	332.564	335.610	336.783	335.610	332.564	328.595	324.850	324.921	324.324	324.921
112.5	382.227	387.005	382.502	387.005	382.227	377.090	374.357	370.724	371.443	370.724
115.0	431.975	438.455	431.833	438.455	431.975	438.030	423.368	418.873	420.860	418.873
117.5	482.727	490.720	487.078	490.720	482.727	481.165	475.348	470.760	472.699	470.760
120.0	537.214	544.025	539.201	544.025	537.214	534.518	528.133	523.592	522.930	523.592
122.5	592.695	597.804	595.959	597.804	592.695	588.296	579.593	579.546	574.107	579.546
125.0	649.785	654.845	649.974	654.845	649.785	645.101	632.993	634.507	629.635	634.507
127.5	704.366	711.083	706.920	711.083	704.366	698.076	690.933	690.129	686.393	690.129
130.0	762.023	767.936	761.408	767.936	762.023	756.158	747.645	746.414	745.705	746.414
132.5	816.037	825.214	816.463	825.214	816.037	812.490	803.693	802.747	807.193	802.747
135.0	871.471	882.255	871.045	882.255	871.471	868.965	863.572	861.444	865.276	861.444
137.5	924.114	936.365	928.750	936.365	924.114	922.222	923.310	917.066	922.695	917.066
140.0	979.739	994.497	981.818	994.497	979.739	978.131	978.836	974.773	979.457	974.773
142.5	1034.229	1045.620	1033.843	1045.620	1034.229	1032.432	1032.714	1028.453	1030.062	1028.453
145.0	1085.445	1096.140	1087.862	1096.140	1085.445	1083.319	1084.175	1082.708	1084.645	1082.708
147.5	1137.244	1146.462	1136.388	1146.462	1137.244	1137.197	1137.150	1132.842	1135.448	1132.842
150.0	1183.212	1195.750	1186.241	1195.750	1183.212	1183.645	1183.927	1180.898	1185.009	1180.898
152.5	1230.233	1241.962	1227.581	1241.962	1230.233	1231.747	1230.233	1226.442	1231.644	1226.442
155.0	1272.749	1286.228	1269.673	1286.228	1272.749	1272.466	1273.031	1266.456	1273.558	1266.456
157.5	1313.044	1327.897	1309.310	1327.897	1313.044	1309.545	1310.354	1311.107	1310.354	1311.107
160.0	1346.013	1363.800	1347.339	1363.800	1346.013	1342.702	1344.545	1338.591	1341.949	1338.591
162.5	1376.620	1394.257	1376.573	1394.257	1376.620	1374.250	1376.187	1368.766	1372.980	1368.766
165.0	1403.954	1419.804	1403.719	1419.804	1403.954	1401.170	1402.675	1396.439	1401.264	1396.439
167.5	1427.413	1442.980	1426.040	1442.980	1427.413	1424.864	1426.181	1421.177	1426.425	1421.177
170.0	1446.714	1462.987	1444.495	1462.987	1446.714	1444.062	1446.855	1441.137	1447.138	1441.137
172.5	1462.460	1478.545	1459.055	1478.545	1462.460	1459.582	1462.601	1456.600	1462.940	1456.600
175.0	1473.766	1489.663	1469.750	1489.663	1473.766	1470.549	1473.719	1468.612	1474.858	1468.612
177.5	1480.106	1496.096	1476.372	1496.096	1480.106	1476.983	1480.529	1475.046	1481.950	1475.046
180.0	1483.436	1483.436	1483.436	1483.436	1483.436	1483.436	1483.436	1483.436	1483.436	1483.436

**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

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	3.411	2.833	2.994	2.635	2.705
92.5	39.201	38.392	39.504	39.457	37.905
95.0	80.790	79.882	80.705	79.480	79.253
97.5	111.326	111.671	112.835	114.888	114.642
100.0	151.289	151.610	152.273	155.645	156.888
102.5	190.788	193.398	194.784	197.599	197.953
105.0	234.354	236.425	238.838	241.519	241.137
107.5	279.230	281.051	283.449	287.053	289.541
110.0	324.850	328.595	332.564	335.610	336.783
112.5	374.357	377.090	382.227	387.005	382.502
115.0	423.368	438.030	431.975	438.455	431.833
117.5	475.348	481.165	482.727	490.720	487.078
120.0	528.133	534.518	537.214	544.025	539.201
122.5	579.593	588.296	592.695	597.804	595.959
125.0	632.993	645.101	649.785	654.845	649.974
127.5	690.933	698.076	704.366	711.083	706.920
130.0	747.645	756.158	762.023	767.936	761.408
132.5	803.693	812.490	816.037	825.214	816.463
135.0	863.572	868.965	871.471	882.255	871.045
137.5	923.310	922.222	924.114	936.365	928.750
140.0	978.836	978.131	979.739	994.497	981.818
142.5	1032.714	1032.432	1034.229	1045.620	1033.843
145.0	1084.175	1083.319	1085.445	1096.140	1087.862
147.5	1137.150	1137.197	1137.244	1146.462	1136.388
150.0	1183.927	1183.645	1183.212	1195.750	1186.241
152.5	1230.233	1231.747	1230.233	1241.962	1227.581
155.0	1273.031	1272.466	1272.749	1286.228	1269.673
157.5	1310.354	1309.545	1313.044	1327.897	1309.310
160.0	1344.545	1342.702	1346.013	1363.800	1347.339
162.5	1376.187	1374.250	1376.620	1394.257	1376.573
165.0	1402.675	1401.170	1403.954	1419.804	1403.719
167.5	1426.181	1424.864	1427.413	1442.980	1426.040

IES INDOOR REPORT

PHOTOMETRIC FILENAME : HP3-P-ID-4FT-H-V-835-F-F-KPL2008-50.004.IES

CANDELA TABULATION - (Cont.)

170.0	1446.855	1444.062	1446.714	1462.987	1444.495
172.5	1462.601	1459.582	1462.460	1478.545	1459.055
175.0	1473.719	1470.549	1473.766	1489.663	1469.750
177.5	1480.529	1476.983	1480.106	1496.096	1476.372
180.0	1483.436	1483.436	1483.436	1483.436	1483.436

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HP3-P-ID-4FT-H-V-835-F-F-KPL2008-50.004.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	621.44	N.A.	7.80
0-30	1283.24	N.A.	16.10
0-40	2033.33	N.A.	25.50
0-60	3375.62	N.A.	42.30
0-80	4092.08	N.A.	51.30
0-90	4176.66	N.A.	52.30
10-90	4012.98	N.A.	50.30
20-40	1411.89	N.A.	17.70
20-50	2138.13	N.A.	26.80
40-70	1794.16	N.A.	22.50
60-80	716.46	N.A.	9.00
70-80	264.59	N.A.	3.30
80-90	84.58	N.A.	1.10
90-110	335.19	N.A.	4.20
90-120	760.47	N.A.	9.50
90-130	1335.64	N.A.	16.70
90-150	2685.3	N.A.	33.60
90-180	3807.37	N.A.	47.70
110-180	3472.19	N.A.	43.50
0-180	7984.03	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	84.58
90-100	83.84
100-110	251.35
110-120	425.28
120-130	575.17
130-140	670.32
140-150	679.35
150-160	586.24
160-170	395.91
170-180	139.92

IES INDOOR REPORT

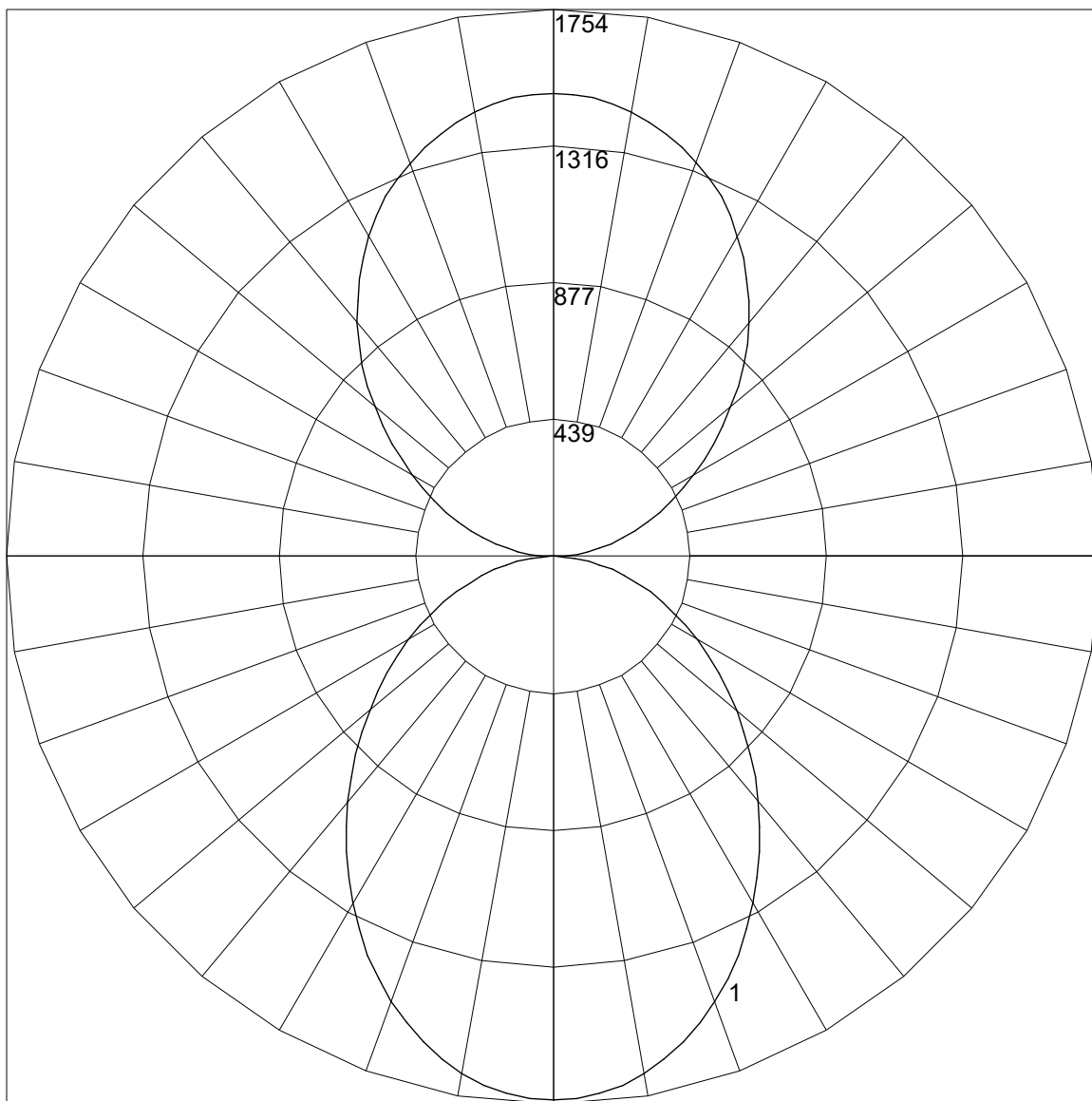
PHOTOMETRIC FILENAME : HP3-P-ID-4FT-H-V-835-F-F-KPL2008-50.004.IES

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	108	108	108	108	100	100	100	100	85	85	85	71	71	71	58	58	58	52
1	98	94	90	87	91	87	84	81	74	72	70	62	61	59	52	50	49	44
2	90	82	76	71	83	76	71	66	65	61	58	55	52	50	45	43	42	37
3	82	72	65	59	75	67	61	56	58	53	49	49	45	42	40	38	36	32
4	75	64	56	50	69	60	53	47	51	46	42	43	39	36	36	33	31	27
5	69	57	49	43	63	53	46	41	46	40	36	39	35	31	33	29	27	24
6	64	51	43	38	59	48	41	36	42	36	32	35	31	28	30	26	24	21
7	59	47	39	33	54	43	36	31	38	32	28	32	28	25	27	24	21	19
8	55	42	35	29	50	40	33	28	34	29	25	30	25	22	25	22	19	17
9	51	39	31	26	47	36	29	25	32	26	22	27	23	20	23	20	17	15
10	48	36	28	23	44	33	27	22	29	24	20	25	21	18	22	18	16	14

POLAR GRAPH



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