

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-V-S-835-WSO-KPL2008-102.003.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST] KPL2008-102.003 Family Correlation File
[TESTLAB] Northern Lights Testing Laboratories
[ISSUEDATE] 8/22/2024
[TESTDATE] 11/27/2024
[MANUFAC] Finelite Inc.
[LUMCAT] HP3-P-ID-4ft-V-S-835-WSO-F
[LUMINAIRE] HP3-P-ID Series
[LAMPCAT] 320 LM561B+ LEDs with 80 CRI
[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 53.5 WATTS
[ABSOLUTELUMENS]7427
[LAMP] Samsung
[BALLAST] Osram
[BALLASTCAT] Oti50 x-2 @ 700mA

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	7429
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	139
Total Luminaire Watts	53.5
Ballast Factor	1.00
CIE Type	Semi-Indirect
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	7621	7273	6919
55	6933	6533	6197
65	6261	5884	5566
75	5587	5206	5023
85	5022	4713	4416

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	879.768	879.768	879.768	879.768	879.768	879.768	879.768	879.768	879.768	879.768
2.5	873.748	886.871	876.107	876.594	877.360	876.077	878.643	876.077	877.360	876.594
5.0	869.534	882.407	871.613	871.766	871.826	870.574	873.018	870.574	871.826	871.766
7.5	863.112	874.946	863.963	863.264	863.082	861.397	863.538	861.397	863.082	863.264
10.0	857.299	869.315	855.499	852.288	850.968	848.159	850.390	848.159	850.968	852.288
12.5	840.849	853.662	841.275	841.184	835.255	832.287	833.388	832.287	835.255	841.184
15.0	825.008	836.325	823.263	823.111	818.252	813.174	814.001	813.174	818.252	823.111
17.5	806.905	817.212	803.694	801.340	799.109	790.759	791.739	790.759	799.109	801.340
20.0	787.032	796.573	782.963	777.430	774.894	767.372	767.274	767.372	774.894	777.430
22.5	765.195	772.200	759.326	751.652	746.605	741.284	740.426	741.284	746.605	751.652
25.0	744.343	749.390	733.549	725.291	717.495	712.022	712.052	712.022	717.495	725.291
27.5	713.645	720.949	706.974	698.230	689.029	682.607	680.187	682.607	689.029	698.230
30.0	686.366	688.415	677.226	668.475	657.803	651.047	649.058	651.047	657.803	668.475
32.5	656.708	662.333	645.695	638.696	626.522	619.151	616.281	619.151	626.522	638.696
35.0	627.774	631.599	616.463	605.486	599.676	585.977	585.029	585.977	599.676	605.486
37.5	597.444	598.698	584.600	573.164	561.422	553.471	551.209	553.471	561.422	573.164
40.0	563.379	565.703	551.790	539.833	528.611	520.967	517.572	520.967	528.611	539.833
42.5	531.333	531.975	518.673	508.001	496.228	488.584	485.159	488.584	496.228	508.001
45.0	498.981	500.021	486.015	476.200	462.898	455.437	453.051	455.437	462.898	476.200
47.5	465.711	465.711	453.725	443.052	430.454	422.870	420.577	422.870	430.454	443.052
50.0	432.258	433.359	420.057	410.058	397.705	391.467	388.714	391.467	397.705	410.058
52.5	399.111	400.304	387.705	378.226	367.401	360.337	358.625	360.337	367.401	378.226
55.0	368.227	367.646	357.004	346.945	337.740	332.603	329.148	332.603	337.740	346.945
57.5	336.976	334.499	324.867	316.733	307.834	301.718	299.609	301.718	307.834	316.733
60.0	305.174	303.064	295.297	285.971	278.265	273.250	270.926	273.250	278.265	285.971
62.5	275.084	273.127	265.605	256.689	247.928	244.717	243.424	244.717	247.928	256.689
65.0	245.020	242.931	237.020	230.256	222.236	219.591	217.811	219.591	222.236	230.256
67.5	215.383	214.160	208.742	201.812	196.094	193.526	192.327	193.526	196.094	201.812
70.0	188.266	186.303	180.257	175.870	171.576	168.323	167.620	168.323	171.576	175.870
72.5	159.700	154.917	154.440	149.740	145.725	143.572	143.150	143.572	145.725	149.740
75.0	133.897	132.637	129.210	124.755	123.124	120.168	120.382	120.168	123.124	124.755
77.5	109.899	108.031	104.805	101.539	99.787	97.649	97.803	97.649	99.787	101.539
80.0	85.693	84.244	81.559	80.107	77.921	76.804	76.159	76.804	77.921	80.107
82.5	62.551	61.854	60.775	59.307	58.396	57.641	59.616	57.641	58.396	59.307
85.0	40.529	39.810	38.391	38.037	37.385	36.633	35.636	36.633	37.385	38.037
87.5	21.179	19.662	18.784	18.121	17.161	17.240	17.436	17.240	17.161	18.121
90.0	3.149	3.067	3.486	3.298	3.971	4.202	3.194	4.202	3.971	3.298
92.5	41.078	49.370	51.336	55.709	59.916	57.911	64.536	57.911	59.916	55.709
95.0	82.123	104.788	98.510	102.744	105.355	104.391	106.362	104.391	105.355	102.744
97.5	121.329	159.142	163.046	144.985	146.983	149.589	150.513	149.589	146.983	144.985
100.0	164.522	214.872	269.915	259.392	188.001	186.454	191.272	186.454	188.001	259.392
102.5	208.650	268.879	345.072	426.381	338.653	266.728	240.753	266.728	338.653	426.381
105.0	253.979	322.628	421.832	577.350	585.524	463.159	407.533	463.159	585.524	577.350
107.5	300.245	378.562	503.377	658.019	823.323	724.214	689.045	724.214	823.323	658.019
110.0	349.328	431.094	579.223	768.480	941.271	982.405	973.429	982.405	941.271	768.480
112.5	398.435	479.060	633.571	926.844	1037.691	1104.919	1130.697	1104.919	1037.691	926.844
115.0	448.478	527.627	687.314	1047.050	1206.245	1210.811	1208.008	1210.811	1206.245	1047.050
117.5	500.866	577.406	738.139	1093.966	1412.673	1414.381	1388.177	1414.381	1412.673	1093.966
120.0	542.054	620.026	785.880	1122.823	1547.255	1663.878	1649.621	1663.878	1547.255	1122.823
122.5	580.379	655.652	826.242	1148.426	1577.654	1836.513	1888.824	1836.513	1577.654	1148.426
125.0	616.282	689.958	863.686	1171.280	1573.131	1879.735	1976.811	1879.735	1573.131	1171.280
127.5	648.548	719.637	895.734	1191.702	1562.235	1859.750	1964.591	1859.750	1562.235	1191.702
130.0	678.283	748.160	922.660	1210.866	1549.785	1827.260	1926.483	1827.260	1549.785	1210.866
132.5	706.587	775.417	946.943	1224.028	1538.166	1792.240	1883.754	1792.240	1538.166	1224.028

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CANDELA TABULATION - (Cont.)

135.0	735.000	801.959	967.868	1232.504	1526.055	1753.202	1838.933	1753.202	1526.055	1232.504
137.5	761.541	826.683	984.001	1235.537	1508.162	1714.875	1792.678	1714.875	1508.162	1235.537
140.0	789.624	852.122	999.254	1233.993	1485.801	1672.310	1745.876	1672.310	1485.801	1233.993
142.5	817.266	875.910	1012.304	1227.773	1459.038	1626.657	1692.678	1626.657	1459.038	1227.773
145.0	845.239	898.982	1022.877	1218.575	1426.449	1579.132	1636.622	1579.132	1426.449	1218.575
147.5	869.468	921.504	1031.963	1205.796	1390.980	1525.124	1577.490	1525.124	1390.980	1205.796
150.0	894.797	941.877	1038.846	1192.140	1352.544	1470.218	1515.148	1470.218	1352.544	1192.140
152.5	918.144	961.370	1044.848	1176.174	1313.012	1413.451	1454.362	1413.451	1313.012	1176.174
155.0	939.399	979.321	1048.923	1160.866	1274.412	1357.450	1393.017	1357.450	1274.412	1160.866
157.5	961.095	996.336	1051.621	1144.013	1237.629	1298.306	1333.665	1298.306	1237.629	1144.013
160.0	979.816	1011.093	1052.281	1128.266	1205.905	1256.683	1278.266	1256.683	1205.905	1128.266
162.5	994.904	1024.199	1053.218	1112.683	1173.262	1212.957	1229.701	1212.957	1173.262	1112.683
165.0	1010.212	1035.707	1053.272	1097.539	1143.301	1173.590	1185.756	1173.590	1143.301	1097.539
167.5	1023.208	1045.398	1053.438	1084.384	1116.319	1136.534	1148.316	1136.534	1116.319	1084.384
170.0	1033.779	1054.098	1053.878	1073.756	1093.744	1105.303	1112.300	1105.303	1093.744	1073.756
172.5	1042.039	1060.431	1054.154	1064.561	1075.629	1081.191	1085.871	1081.191	1075.629	1064.561
175.0	1047.216	1064.561	1054.539	1059.220	1064.671	1064.505	1067.589	1064.505	1064.671	1059.220
177.5	1050.079	1067.204	1054.539	1055.750	1057.623	1055.585	1056.907	1055.585	1057.623	1055.750
180.0	1056.411	1056.411	1056.411	1056.411	1056.411	1056.411	1056.411	1056.411	1056.411	1056.411

**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	879.768	879.768	879.768	879.768	879.768	879.768	879.768	879.768	879.768	879.768
2.5	876.107	886.871	873.748	886.871	876.107	876.594	877.360	876.077	878.643	876.077
5.0	871.613	882.407	869.534	882.407	871.613	871.766	871.826	870.574	873.018	870.574
7.5	863.963	874.946	863.112	874.946	863.963	863.264	863.082	861.397	863.538	861.397
10.0	855.499	869.315	857.299	869.315	855.499	852.288	850.968	848.159	850.390	848.159
12.5	841.275	853.662	840.849	853.662	841.275	841.184	835.255	832.287	833.388	832.287
15.0	823.263	836.325	825.008	836.325	823.263	823.111	818.252	813.174	814.001	813.174
17.5	803.694	817.212	806.905	817.212	803.694	801.340	799.109	790.759	791.739	790.759
20.0	782.963	796.573	787.032	796.573	782.963	777.430	774.894	767.372	767.274	767.372
22.5	759.326	772.200	765.195	772.200	759.326	751.652	746.605	741.284	740.426	741.284
25.0	733.549	749.390	744.343	749.390	733.549	725.291	717.495	712.022	712.052	712.022
27.5	706.974	720.949	713.645	720.949	706.974	698.230	689.029	682.607	680.187	682.607
30.0	677.226	688.415	686.366	688.415	677.226	668.475	657.803	651.047	649.058	651.047
32.5	645.695	662.333	656.708	662.333	645.695	638.696	626.522	619.151	616.281	619.151
35.0	616.463	631.599	627.774	631.599	616.463	605.486	599.676	585.977	585.029	585.977
37.5	584.600	598.698	597.444	598.698	584.600	573.164	561.422	553.471	551.209	553.471
40.0	551.790	565.703	563.379	565.703	551.790	539.833	528.611	520.967	517.572	520.967
42.5	518.673	531.975	531.333	531.975	518.673	508.001	496.228	488.584	485.159	488.584
45.0	486.015	500.021	498.981	500.021	486.015	476.200	462.898	455.437	453.051	455.437
47.5	453.725	465.711	465.711	465.711	453.725	443.052	430.454	422.870	420.577	422.870
50.0	420.057	433.359	432.258	433.359	420.057	410.058	397.705	391.467	388.714	391.467
52.5	387.705	400.304	399.111	400.304	387.705	378.226	367.401	360.337	358.625	360.337
55.0	357.004	367.646	368.227	367.646	357.004	346.945	337.740	332.603	329.148	332.603
57.5	324.867	334.499	336.976	334.499	324.867	316.733	307.834	301.718	299.609	301.718
60.0	295.297	303.064	305.174	303.064	295.297	285.971	278.265	273.250	270.926	273.250
62.5	265.605	273.127	275.084	273.127	265.605	256.689	247.928	244.717	243.424	244.717
65.0	237.020	242.931	245.020	242.931	237.020	230.256	222.236	219.591	217.811	219.591
67.5	208.742	214.160	215.383	214.160	208.742	201.812	196.094	193.526	192.327	193.526
70.0	180.257	186.303	188.266	186.303	180.257	175.870	171.576	168.323	167.620	168.323
72.5	154.440	154.917	159.700	154.917	154.440	149.740	145.725	143.572	143.150	143.572
75.0	129.210	132.637	133.897	132.637	129.210	124.755	123.124	120.168	120.382	120.168
77.5	104.805	108.031	109.899	108.031	104.805	101.539	99.787	97.649	97.803	97.649
80.0	81.559	84.244	85.693	84.244	81.559	80.107	77.921	76.804	76.159	76.804

CANDELA TABULATION - (Cont.)

82.5	60.775	61.854	62.551	61.854	60.775	59.307	58.396	57.641	59.616	57.641
85.0	38.391	39.810	40.529	39.810	38.391	38.037	37.385	36.633	35.636	36.633
87.5	18.784	19.662	21.179	19.662	18.784	18.121	17.161	17.240	17.436	17.240
90.0	3.486	3.067	3.149	3.067	3.486	3.298	3.971	4.202	3.194	4.202
92.5	51.336	49.370	41.078	49.370	51.336	55.709	59.916	57.911	64.536	57.911
95.0	98.510	104.788	82.123	104.788	98.510	102.744	105.355	104.391	106.362	104.391
97.5	163.046	159.142	121.329	159.142	163.046	144.985	146.983	149.589	150.513	149.589
100.0	269.915	214.872	164.522	214.872	269.915	259.392	188.001	186.454	191.272	186.454
102.5	345.072	268.879	208.650	268.879	345.072	426.381	338.653	266.728	240.753	266.728
105.0	421.832	322.628	253.979	322.628	421.832	577.350	585.524	463.159	407.533	463.159
107.5	503.377	378.562	300.245	378.562	503.377	658.019	823.323	724.214	689.045	724.214
110.0	579.223	431.094	349.328	431.094	579.223	768.480	941.271	982.405	973.429	982.405
112.5	633.571	479.060	398.435	479.060	633.571	926.844	1037.691	1104.919	1130.697	1104.919
115.0	687.314	527.627	448.478	527.627	687.314	1047.050	1206.245	1210.811	1208.008	1210.811
117.5	738.139	577.406	500.866	577.406	738.139	1093.966	1412.673	1414.381	1388.177	1414.381
120.0	785.880	620.026	542.054	620.026	785.880	1122.823	1547.255	1663.878	1649.621	1663.878
122.5	826.242	655.652	580.379	655.652	826.242	1148.426	1577.654	1836.513	1888.824	1836.513
125.0	863.686	689.958	616.282	689.958	863.686	1171.280	1573.131	1879.735	1976.811	1879.735
127.5	895.734	719.637	648.548	719.637	895.734	1191.702	1562.235	1859.750	1964.591	1859.750
130.0	922.660	748.160	678.283	748.160	922.660	1210.866	1549.785	1827.260	1926.483	1827.260
132.5	946.943	775.417	706.587	775.417	946.943	1224.028	1538.166	1792.240	1883.754	1792.240
135.0	967.868	801.959	735.000	801.959	967.868	1232.504	1526.055	1753.191	1838.933	1753.202
137.5	984.001	826.683	761.541	826.683	984.001	1235.537	1508.162	1714.875	1792.678	1714.875
140.0	999.254	852.122	789.624	852.122	999.254	1233.993	1485.801	1672.310	1745.876	1672.310
142.5	1012.304	875.910	817.266	875.910	1012.304	1227.773	1459.038	1626.657	1692.678	1626.657
145.0	1022.877	898.982	845.239	898.982	1022.877	1218.575	1426.449	1579.132	1636.622	1579.132
147.5	1031.963	921.504	869.468	921.504	1031.963	1205.796	1390.980	1525.124	1577.490	1525.124
150.0	1038.846	941.877	894.797	941.877	1038.846	1192.140	1352.544	1470.218	1515.148	1470.218
152.5	1044.848	961.370	918.144	961.370	1044.848	1176.174	1313.012	1413.451	1454.362	1413.451
155.0	1048.923	979.321	939.399	979.321	1048.923	1160.866	1274.412	1357.450	1393.017	1357.450
157.5	1051.621	996.336	961.095	996.336	1051.621	1144.013	1237.629	1298.306	1333.665	1298.306
160.0	1052.281	1011.093	979.816	1011.093	1052.281	1128.266	1205.905	1256.683	1278.266	1256.683
162.5	1053.218	1024.199	994.904	1024.199	1053.218	1112.683	1173.262	1212.957	1229.701	1212.957
165.0	1053.272	1035.707	1010.212	1035.707	1053.272	1097.539	1143.301	1173.590	1185.756	1173.590
167.5	1053.438	1045.398	1023.208	1045.398	1053.438	1084.384	1116.319	1136.534	1148.316	1136.534
170.0	1053.878	1054.098	1033.779	1054.098	1053.878	1073.756	1093.744	1105.303	1112.300	1105.303
172.5	1054.154	1060.431	1042.039	1060.431	1054.154	1064.561	1075.629	1081.191	1085.871	1081.191
175.0	1054.539	1064.561	1047.216	1064.561	1054.539	1059.220	1064.671	1064.505	1067.589	1064.505
177.5	1054.539	1067.204	1050.079	1067.204	1054.539	1055.750	1057.623	1055.585	1056.907	1055.585
180.0	1056.411	1056.411	1056.411	1056.411	1056.411	1056.411	1056.411	1056.411	1056.411	1056.411

Vert. Angles	Horizontal Angles				
	<u>300</u>	<u>315</u>	<u>330</u>	<u>345</u>	<u>360</u>
0.0	879.768	879.768	879.768	879.768	879.768
2.5	877.360	876.594	876.107	886.871	873.748
5.0	871.826	871.766	871.613	882.407	869.534
7.5	863.082	863.264	863.963	874.946	863.112
10.0	850.968	852.288	855.499	869.315	857.299
12.5	835.255	841.184	841.275	853.662	840.849
15.0	818.252	823.111	823.263	836.325	825.008
17.5	799.109	801.340	803.694	817.212	806.905
20.0	774.894	777.430	782.963	796.573	787.032
22.5	746.605	751.652	759.326	772.200	765.195
25.0	717.495	725.291	733.549	749.390	744.343
27.5	689.029	698.230	706.974	720.949	713.645

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP3-P-ID-4FT-V-S-835-WSO-KPL2008-102.003.IES****CANDELA TABULATION - (Cont.)**

30.0	657.803	668.475	677.226	688.415	686.366
32.5	626.522	638.696	645.695	662.333	656.708
35.0	599.676	605.486	616.463	631.599	627.774
37.5	561.422	573.164	584.600	598.698	597.444
40.0	528.611	539.833	551.790	565.703	563.379
42.5	496.228	508.001	518.673	531.975	531.333
45.0	462.898	476.200	486.015	500.021	498.981
47.5	430.454	443.052	453.725	465.711	465.711
50.0	397.705	410.058	420.057	433.359	432.258
52.5	367.401	378.226	387.705	400.304	399.111
55.0	337.740	346.945	357.004	367.646	368.227
57.5	307.834	316.733	324.867	334.499	336.976
60.0	278.265	285.971	295.297	303.064	305.174
62.5	247.928	256.689	265.605	273.127	275.084
65.0	222.236	230.256	237.020	242.931	245.020
67.5	196.094	201.812	208.742	214.160	215.383
70.0	171.576	175.870	180.257	186.303	188.266
72.5	145.725	149.740	154.440	154.917	159.700
75.0	123.124	124.755	129.210	132.637	133.897
77.5	99.787	101.539	104.805	108.031	109.899
80.0	77.921	80.107	81.559	84.244	85.693
82.5	58.396	59.307	60.775	61.854	62.551
85.0	37.385	38.037	38.391	39.810	40.529
87.5	17.161	18.121	18.784	19.662	21.179
90.0	3.971	3.298	3.486	3.067	3.149
92.5	59.916	55.709	51.336	49.370	41.078
95.0	105.355	102.744	98.510	104.788	82.123
97.5	146.983	144.985	163.046	159.142	121.329
100.0	188.001	259.392	269.915	214.872	164.522
102.5	338.653	426.381	345.072	268.879	208.650
105.0	585.524	577.350	421.832	322.628	253.979
107.5	823.323	658.019	503.377	378.562	300.245
110.0	941.271	768.480	579.223	431.094	349.328
112.5	1037.691	926.844	633.571	479.060	398.435
115.0	1206.245	1047.050	687.314	527.627	448.478
117.5	1412.673	1093.966	738.139	577.406	500.866
120.0	1547.255	1122.823	785.880	620.026	542.054
122.5	1577.654	1148.426	826.242	655.652	580.379
125.0	1573.131	1171.280	863.686	689.958	616.282
127.5	1562.235	1191.702	895.734	719.637	648.548
130.0	1549.785	1210.866	922.660	748.160	678.283
132.5	1538.166	1224.028	946.943	775.417	706.587
135.0	1526.055	1232.504	967.868	801.959	735.000
137.5	1508.162	1235.537	984.001	826.683	761.541
140.0	1485.801	1233.993	999.254	852.122	789.624
142.5	1459.038	1227.773	1012.304	875.910	817.266
145.0	1426.449	1218.575	1022.877	898.982	845.239
147.5	1390.980	1205.796	1031.963	921.504	869.468
150.0	1352.544	1192.140	1038.846	941.877	894.797
152.5	1313.012	1176.174	1044.848	961.370	918.144
155.0	1274.412	1160.866	1048.923	979.321	939.399
157.5	1237.629	1144.013	1051.621	996.336	961.095
160.0	1205.905	1128.266	1052.281	1011.093	979.816
162.5	1173.262	1112.683	1053.218	1024.199	994.904
165.0	1143.301	1097.539	1053.272	1035.707	1010.212
167.5	1116.319	1084.384	1053.438	1045.398	1023.208

IES INDOOR REPORT

PHOTOMETRIC FILENAME : HP3-P-ID-4FT-V-S-835-WSO-KPL2008-102.003.IES

CANDELA TABULATION - (Cont.)

170.0	1093.744	1073.756	1053.878	1054.098	1033.779
172.5	1075.629	1064.561	1054.154	1060.431	1042.039
175.0	1064.671	1059.220	1054.539	1064.561	1047.216
177.5	1057.623	1055.750	1054.539	1067.204	1050.079
180.0	1056.411	1056.411	1056.411	1056.411	1056.411

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HP3-P-ID-4FT-V-S-835-WSO-KPL2008-102.003.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	314.21	N.A.	4.20
0-30	648.84	N.A.	8.70
0-40	1028.1	N.A.	13.80
0-60	1706.8	N.A.	23.00
0-80	2069.06	N.A.	27.90
0-90	2112.1	N.A.	28.40
10-90	2029.34	N.A.	27.30
20-40	713.89	N.A.	9.60
20-50	1081.09	N.A.	14.60
40-70	907.17	N.A.	12.20
60-80	362.26	N.A.	4.90
70-80	133.78	N.A.	1.80
80-90	43.04	N.A.	0.60
90-110	595.28	N.A.	8.00
90-120	1512.29	N.A.	20.40
90-130	2613.67	N.A.	35.20
90-150	4361.78	N.A.	58.70
90-180	5316.47	N.A.	71.60
110-180	4721.18	N.A.	63.60
0-180	7428.56	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	82.76
10-20	231.45
20-30	334.62
30-40	379.27
40-50	367.21
50-60	311.49
60-70	228.48
70-80	133.78
80-90	43.04
90-100	113.19
100-110	482.10
110-120	917.01
120-130	1101.39
130-140	975.34
140-150	772.76
150-160	540.00
160-170	312.97
170-180	101.72

IES INDOOR REPORT

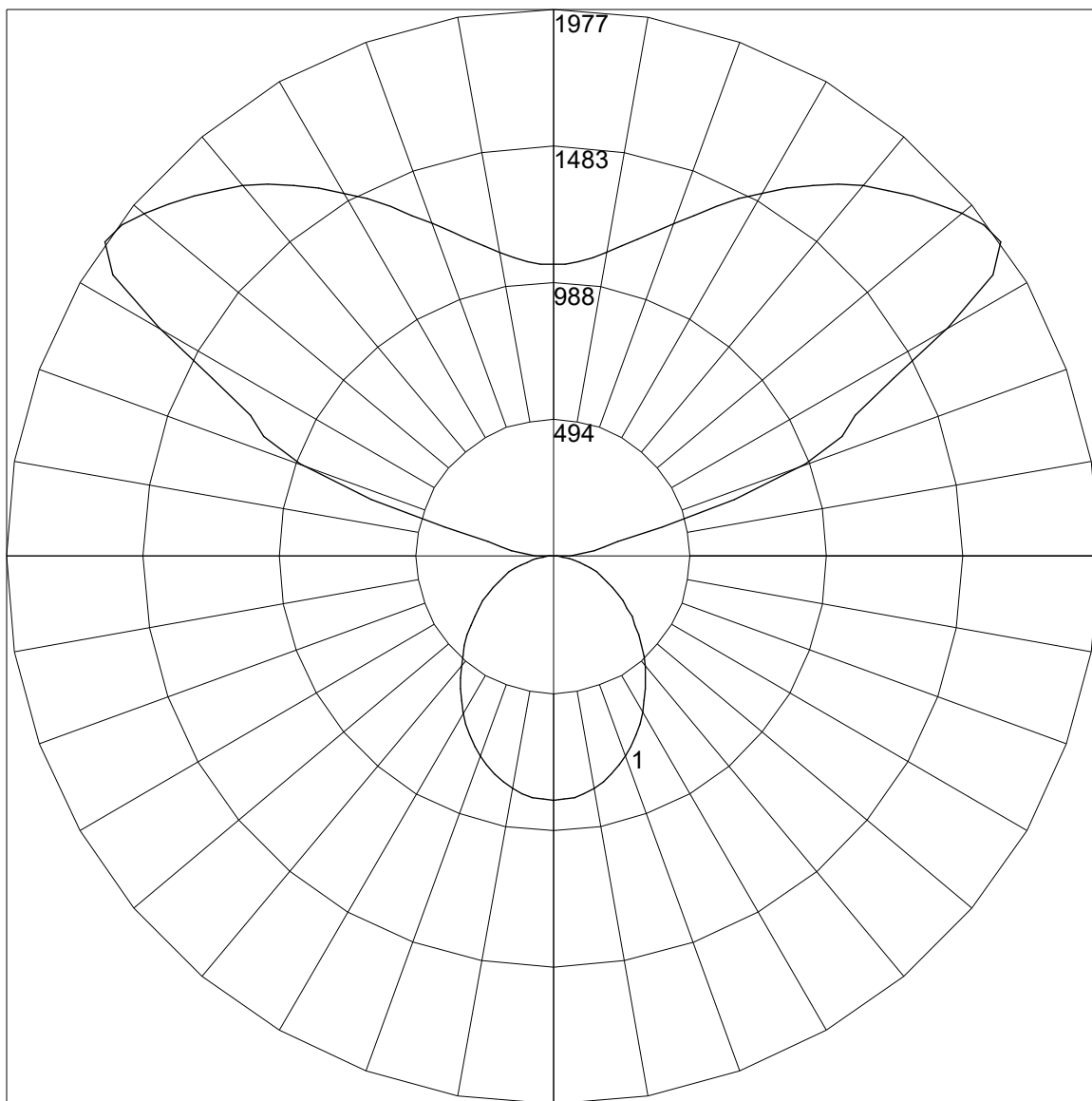
PHOTOMETRIC FILENAME : HP3-P-ID-4FT-V-S-835-WSO-KPL2008-102.003.IES

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	102	102	102	102	91	91	91	91	71	71	71	53	53	53	36	36	36	28
1	93	89	85	82	83	80	76	74	62	60	58	47	45	44	32	31	31	24
2	85	78	72	67	76	70	65	60	55	51	48	41	39	37	28	27	26	20
3	77	68	61	56	69	61	55	50	48	44	41	36	34	31	25	23	22	17
4	71	60	53	47	63	54	48	43	43	38	35	32	29	27	22	21	19	15
5	65	54	46	40	58	48	42	37	38	33	30	29	26	23	20	18	17	13
6	60	48	40	35	53	43	37	32	34	30	26	26	23	20	18	16	15	11
7	55	43	36	30	49	39	32	28	31	26	23	24	20	18	17	15	13	10
8	51	39	32	27	45	35	29	24	28	24	20	22	18	16	15	13	12	9
9	47	36	28	24	42	32	26	22	26	21	18	20	17	14	14	12	11	8
10	44	33	26	21	40	30	23	19	24	19	16	18	15	13	13	11	10	7

POLAR GRAPH



Maximum Candela = 1976.811 Located At Horizontal Angle = 90, Vertical Angle = 125
1 - Vertical Plane Through Horizontal Angles (90 - 270)