

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-S-835-WSO-KPL2008-102.011.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST] KPL2008-102.011 Family Correlation File
[TESTLAB] Northern Lights Testing Laboratories
[ISSUEDATE] 8/22/2024
[TESTDATE] 11/27/2024
[MANUFAC] Finelite Inc.
[LUMCAT] HP3-P-ID-4ft-B-S-835-WSO-F
[LUMINAIRE] HP3-P-ID Series
[LAMPCAT] 320 LM561B+ LEDs with 80 CRI
[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 43.0 WATTS
[ABSOLUTELUMENS]5804
[LAMP] Samsung
[BALLAST] Osram
[BALLASTCAT] Oti50 x-2 @ 700mA

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5806
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	135
Total Luminaire Watts	43
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	2.188	2.131	2.422	2.292	2.759	2.919	2.219	2.919	2.759	2.292
92.5	28.541	34.302	35.668	38.706	41.629	40.236	44.839	40.236	41.629	38.706
95.0	57.059	72.806	68.444	71.387	73.200	72.531	73.900	72.531	73.200	71.387
97.5	84.299	110.571	113.284	100.735	102.124	103.934	104.576	103.934	102.124	100.735
100.0	114.309	149.293	187.537	180.225	130.623	129.548	132.895	129.548	130.623	180.225
102.5	144.970	186.817	239.755	296.249	235.295	185.322	167.275	185.322	235.295	296.249
105.0	176.464	224.161	293.088	401.142	406.821	321.802	283.153	321.802	406.821	401.142
107.5	208.610	263.024	349.746	457.191	572.043	503.183	478.747	503.183	572.043	457.191
110.0	242.713	299.523	402.443	533.938	653.993	682.573	676.336	682.573	653.993	533.938
112.5	276.832	332.850	440.204	643.969	720.986	767.696	785.606	767.696	720.986	643.969
115.0	311.602	366.594	477.545	727.488	838.096	841.269	839.321	841.269	838.096	727.488
117.5	348.001	401.181	512.858	760.085	981.522	982.709	964.502	982.709	981.522	760.085
120.0	376.618	430.793	546.028	780.136	1075.030	1156.059	1146.153	1156.059	1075.030	780.136
122.5	403.246	455.546	574.071	797.924	1096.151	1276.006	1312.351	1276.006	1096.151	797.924
125.0	428.191	479.381	600.087	813.803	1093.008	1306.036	1373.485	1306.036	1093.008	813.803
127.5	450.610	500.002	622.354	827.992	1085.438	1292.151	1364.994	1292.151	1085.438	827.992
130.0	471.270	519.820	641.062	841.307	1076.787	1269.577	1338.516	1269.577	1076.787	841.307
132.5	490.935	538.758	657.934	850.452	1068.715	1245.245	1308.828	1245.245	1068.715	850.452

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CANDELA TABULATION - (Cont.)

135.0	510.676	557.199	672.473	856.341	1060.300	1218.121	1277.687	1218.121	1060.300	856.341
137.5	529.117	574.378	683.682	858.449	1047.868	1191.492	1245.549	1191.492	1047.868	858.449
140.0	548.629	592.053	694.280	857.376	1032.331	1161.918	1213.031	1161.918	1032.331	857.376
142.5	567.835	608.580	703.347	853.054	1013.736	1130.198	1176.069	1130.198	1013.736	853.054
145.0	587.270	624.611	710.693	846.663	991.094	1097.178	1137.122	1097.178	991.094	846.663
147.5	604.104	640.259	717.006	837.784	966.450	1059.653	1096.037	1059.653	966.450	837.784
150.0	621.703	654.414	721.788	828.297	939.745	1021.505	1052.722	1021.505	939.745	828.297
152.5	637.924	667.958	725.958	817.204	912.278	982.063	1010.488	982.063	912.278	817.204
155.0	652.692	680.430	728.789	806.567	885.459	943.153	967.865	943.153	885.459	806.567
157.5	667.767	692.252	730.664	794.858	859.902	902.060	926.628	902.060	859.902	794.858
160.0	680.774	702.505	731.123	783.917	837.860	873.141	888.137	873.141	837.860	783.917
162.5	691.257	711.611	731.773	773.090	815.180	842.760	854.394	842.760	815.180	773.090
165.0	701.893	719.607	731.812	762.568	794.363	815.408	823.861	815.408	794.363	762.568
167.5	710.923	726.340	731.926	753.428	775.616	789.661	797.848	789.661	775.616	753.428
170.0	718.268	732.385	732.232	746.044	759.931	767.962	772.824	767.962	759.931	746.044
172.5	724.007	736.785	732.424	739.655	747.345	751.209	754.461	751.209	747.345	739.655
175.0	727.603	739.655	732.692	735.944	739.731	739.616	741.759	739.616	739.731	735.944
177.5	729.593	741.491	732.692	733.533	734.834	733.418	734.337	733.418	734.834	733.533
180.0	733.992	733.992	733.992	733.992	733.992	733.992	733.992	733.992	733.992	733.992

**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	2.422	2.131	2.188	2.131	2.422	2.292	2.759	2.919	2.219	2.919
92.5	35.668	34.302	28.541	34.302	35.668	38.706	41.629	40.236	44.839	40.236
95.0	68.444	72.806	57.059	72.806	68.444	71.387	73.200	72.531	73.900	72.531
97.5	113.284	110.571	84.299	110.571	113.284	100.735	102.124	103.934	104.576	103.934
100.0	187.537	149.293	114.309	149.293	187.537	180.225	130.623	129.548	132.895	129.548
102.5	239.755	186.817	144.970	186.817	239.755	296.249	235.295	185.322	167.275	185.322
105.0	293.088	224.161	176.464	224.161	293.088	401.142	406.821	321.802	283.153	321.802
107.5	349.746	263.024	208.610	263.024	349.746	457.191	572.043	503.183	478.747	503.183
110.0	402.443	299.523	242.713	299.523	402.443	533.938	653.993	682.573	676.336	682.573
112.5	440.204	332.850	276.832	332.850	440.204	643.969	720.986	767.696	785.606	767.696
115.0	477.545	366.594	311.602	366.594	477.545	727.488	838.096	841.269	839.321	841.269
117.5	512.858	401.181	348.001	401.181	512.858	760.085	981.522	982.709	964.502	982.709
120.0	546.028	430.793	376.618	430.793	546.028	780.136	1075.030	1156.059	1146.153	1156.059
122.5	574.071	455.546	403.246	455.546	574.071	797.924	1096.151	1276.006	1312.351	1276.006
125.0	600.087	479.381	428.191	479.381	600.087	813.803	1093.008	1306.036	1373.485	1306.036
127.5	622.354	500.002	450.610	500.002	622.354	827.992	1085.438	1292.151	1364.994	1292.151
130.0	641.062	519.820	471.270	519.820	641.062	841.307	1076.787	1269.577	1338.516	1269.577
132.5	657.934	538.758	490.935	538.758	657.934	850.452	1068.715	1245.245	1308.828	1245.245
135.0	672.473	557.199	510.676	557.199	672.473	856.341	1060.300	1218.113	1277.687	1218.121
137.5	683.682	574.378	529.117	574.378	683.682	858.449	1047.868	1191.492	1245.549	1191.492
140.0	694.280	592.053	548.629	592.053	694.280	857.376	1032.331	1161.918	1213.031	1161.918
142.5	703.347	608.580	567.835	608.580	703.347	853.054	1013.736	1130.198	1176.069	1130.198
145.0	710.693	624.611	587.270	624.611	710.693	846.663	991.094	1097.178	1137.122	1097.178
147.5	717.006	640.259	604.104	640.259	717.006	837.784	966.450	1059.653	1096.037	1059.653
150.0	721.788	654.414	621.703	654.414	721.788	828.297	939.745	1021.505	1052.722	1021.505
152.5	725.958	667.958	637.924	667.958	725.958	817.204	912.278	982.063	1010.488	982.063
155.0	728.789	680.430	652.692	680.430	728.789	806.567	885.459	943.153	967.865	943.153
157.5	730.664	692.252	667.767	692.252	730.664	794.858	859.902	902.060	926.628	902.060
160.0	731.123	702.505	680.774	702.505	731.123	783.917	837.860	873.141	888.137	873.141
162.5	731.773	711.611	691.257	711.611	731.773	773.090	815.180	842.760	854.394	842.760
165.0	731.812	719.607	701.893	719.607	731.812	762.568	794.363	815.408	823.861	815.408
167.5	731.926	726.340	710.923	726.340	731.926	753.428	775.616	789.661	797.848	789.661
170.0	732.232	732.385	718.268	732.385	732.232	746.044	759.931	767.962	772.824	767.962
172.5	732.424	736.785	724.007	736.785	732.424	739.655	747.345	751.209	754.461	751.209
175.0	732.692	739.655	727.603	739.655	732.692	735.944	739.731	739.616	741.759	739.616
177.5	732.692	741.491	729.593	741.491	732.692	733.533	734.834	733.418	734.337	733.418
180.0	733.992	733.992	733.992	733.992	733.992	733.992	733.992	733.992	733.992	733.992

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-B-S-835-WSO-KPL2008-102.011.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	2.759	2.292	2.422	2.131	2.188
92.5	41.629	38.706	35.668	34.302	28.541
95.0	73.200	71.387	68.444	72.806	57.059
97.5	102.124	100.735	113.284	110.571	84.299
100.0	130.623	180.225	187.537	149.293	114.309
102.5	235.295	296.249	239.755	186.817	144.970
105.0	406.821	401.142	293.088	224.161	176.464
107.5	572.043	457.191	349.746	263.024	208.610
110.0	653.993	533.938	402.443	299.523	242.713
112.5	720.986	643.969	440.204	332.850	276.832
115.0	838.096	727.488	477.545	366.594	311.602
117.5	981.522	760.085	512.858	401.181	348.001
120.0	1075.030	780.136	546.028	430.793	376.618
122.5	1096.151	797.924	574.071	455.546	403.246
125.0	1093.008	813.803	600.087	479.381	428.191
127.5	1085.438	827.992	622.354	500.002	450.610
130.0	1076.787	841.307	641.062	519.820	471.270
132.5	1068.715	850.452	657.934	538.758	490.935
135.0	1060.300	856.341	672.473	557.199	510.676
137.5	1047.868	858.449	683.682	574.378	529.117
140.0	1032.331	857.376	694.280	592.053	548.629
142.5	1013.736	853.054	703.347	608.580	567.835
145.0	991.094	846.663	710.693	624.611	587.270
147.5	966.450	837.784	717.006	640.259	604.104
150.0	939.745	828.297	721.788	654.414	621.703
152.5	912.278	817.204	725.958	667.958	637.924
155.0	885.459	806.567	728.789	680.430	652.692
157.5	859.902	794.858	730.664	692.252	667.767
160.0	837.860	783.917	731.123	702.505	680.774
162.5	815.180	773.090	731.773	711.611	691.257
165.0	794.363	762.568	731.812	719.607	701.893
167.5	775.616	753.428	731.926	726.340	710.923

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP3-P-ID-4FT-B-S-835-WSO-KPL2008-102.011.IES****CANDELA TABULATION - (Cont.)**

170.0	759.931	746.044	732.232	732.385	718.268
172.5	747.345	739.655	732.424	736.785	724.007
175.0	739.731	735.944	732.692	739.655	727.603
177.5	734.834	733.533	732.692	741.491	729.593
180.0	733.992	733.992	733.992	733.992	733.992

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP3-P-ID-4FT-B-S-835-WSO-KPL2008-102.011.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	314.21	N.A.	5.40
0-30	648.84	N.A.	11.20
0-40	1028.1	N.A.	17.70
0-60	1706.8	N.A.	29.40
0-80	2069.06	N.A.	35.60
0-90	2111.95	N.A.	36.40
10-90	2029.19	N.A.	35.00
20-40	713.89	N.A.	12.30
20-50	1081.09	N.A.	18.60
40-70	907.17	N.A.	15.60
60-80	362.26	N.A.	6.20
70-80	133.78	N.A.	2.30
80-90	42.89	N.A.	0.70
90-110	413.60	N.A.	7.10
90-120	1050.73	N.A.	18.10
90-130	1815.98	N.A.	31.30
90-150	3030.55	N.A.	52.20
90-180	3693.87	N.A.	63.60
110-180	3280.27	N.A.	56.50
0-180	5805.82	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	42.89
90-100	78.64
100-110	334.96
110-120	637.13
120-130	765.24
130-140	677.67
140-150	536.91
150-160	375.19
160-170	217.45
170-180	70.68

IES INDOOR REPORT

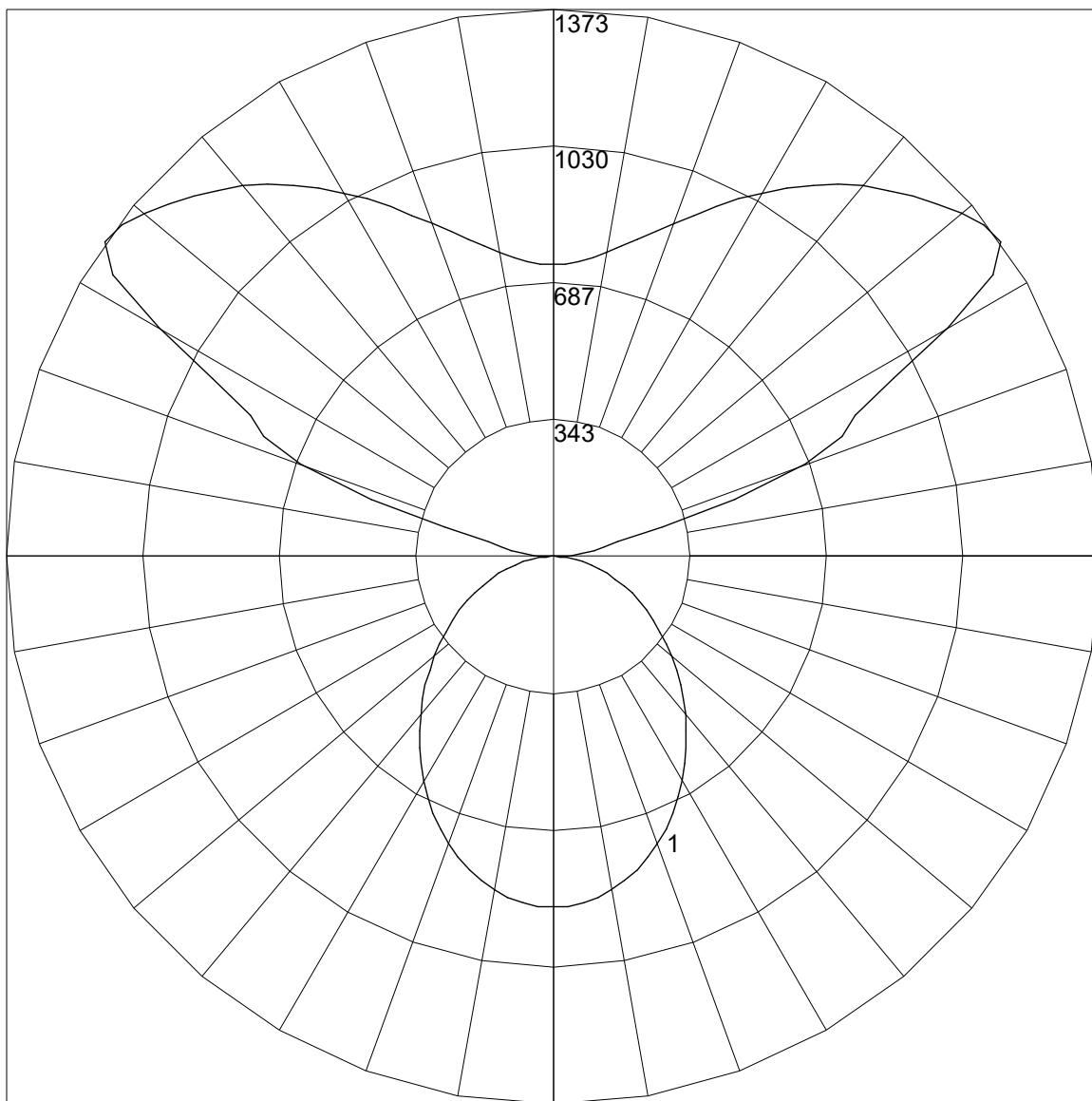
PHOTOMETRIC FILENAME : HP3-P-ID-4FT-B-S-835-WSO-KPL2008-102.011.IES

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	104	104	104	104	94	94	94	94	76	76	76	59	59	59	44	44	44	36
1	95	91	87	83	86	82	79	76	66	64	62	52	50	49	39	38	37	31
2	86	79	73	68	78	72	67	62	58	55	52	46	43	41	34	32	31	26
3	79	70	62	57	71	63	57	52	51	47	43	40	37	35	30	28	27	22
4	72	62	54	48	65	56	49	44	46	41	37	36	33	30	27	25	23	19
5	66	55	47	41	60	50	43	38	41	36	32	32	29	26	24	22	20	17
6	61	49	41	36	55	45	38	33	37	32	28	29	26	23	22	20	18	15
7	56	44	37	31	51	41	34	29	33	28	24	27	23	20	20	18	16	13
8	52	40	33	27	47	37	30	26	30	25	22	24	21	18	19	16	14	12
9	48	37	29	24	44	34	27	23	28	23	19	22	19	16	17	15	13	11
10	45	34	27	22	41	31	25	20	26	21	17	21	17	14	16	13	12	10

POLAR GRAPH



Maximum Candela = 1373.485 Located At Horizontal Angle = 90, Vertical Angle = 125
1 - Vertical Plane Through Horizontal Angles (90 - 270)