

# 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-S-835-WSO-KPL2008-102.007.IES

### DESCRIPTION INFORMATION (From Photometric File)

[TEST] KPL2008-102.007 Family Correlation File  
[TESTLAB] Northern Lights Testing Laboratories  
[ISSUEDATE] 8/22/2024  
[TESTDATE] 11/27/2024  
[MANUFAC] Finelite Inc.  
[LUMCAT] HP3-P-ID-4ft-H-S-835-WSO-F  
[LUMINAIRE] HP3-P-ID Series  
[LAMPCAT] 320 LM561B+ LEDs with 80 CRI  
[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 46.0 WATTS  
[ABSOLUTELUMENS]6268  
[LAMP] Samsung  
[BALLAST] Osram  
[BALLASTCAT] Oti50 x-2 @ 700mA

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6270
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	136
Total Luminaire Watts	46
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	2.463	2.399	2.726	2.580	3.105	3.286	2.498	3.286	3.105	2.580
92.5	32.126	38.612	40.149	43.569	46.860	45.291	50.473	45.291	46.860	43.569
95.0	64.228	81.954	77.044	80.356	82.397	81.644	83.185	81.644	82.397	80.356
97.5	94.890	124.463	127.517	113.391	114.954	116.992	117.715	116.992	114.954	113.391
100.0	128.671	168.050	211.098	202.868	147.034	145.824	149.592	145.824	147.034	202.868
102.5	163.184	210.288	269.878	333.469	264.857	208.605	188.291	208.605	264.857	333.469
105.0	198.635	252.324	329.911	451.540	457.933	362.233	318.728	362.233	457.933	451.540
107.5	234.819	296.070	393.687	514.631	643.914	566.402	538.896	566.402	643.914	514.631
110.0	273.207	337.155	453.005	601.021	736.160	768.330	761.310	768.330	736.160	601.021
112.5	311.612	374.669	495.510	724.876	811.569	864.148	884.308	864.148	811.569	724.876
115.0	350.750	412.652	537.542	818.889	943.393	946.964	944.772	946.964	943.393	818.889
117.5	391.723	451.584	577.292	855.581	1104.839	1106.175	1085.681	1106.175	1104.839	855.581
120.0	423.936	484.916	614.630	878.150	1210.094	1301.304	1290.154	1301.304	1210.094	878.150
122.5	453.909	512.780	646.196	898.174	1233.869	1436.320	1477.232	1436.320	1233.869	898.174
125.0	481.988	539.610	675.481	916.047	1230.332	1470.124	1546.046	1470.124	1230.332	916.047
127.5	507.224	562.822	700.545	932.020	1221.810	1454.494	1536.489	1454.494	1221.810	932.020
130.0	530.479	585.129	721.604	947.007	1212.073	1429.084	1506.685	1429.084	1212.073	947.007
132.5	552.616	606.447	740.595	957.302	1202.986	1401.695	1473.267	1401.695	1202.986	957.302

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**CANDELA TABULATION - (Cont.)**

135.0	574.837	627.205	756.961	963.930	1193.514	1371.163	1438.213	1371.163	1193.514	963.930
137.5	595.595	646.541	769.579	966.303	1179.520	1341.188	1402.038	1341.188	1179.520	966.303
140.0	617.558	666.437	781.508	965.095	1162.031	1307.899	1365.434	1307.899	1162.031	965.095
142.5	639.177	685.041	791.714	960.231	1141.100	1272.194	1323.828	1272.194	1141.100	960.231
145.0	661.053	703.085	799.983	953.036	1115.613	1235.025	1279.988	1235.025	1115.613	953.036
147.5	680.003	720.700	807.089	943.042	1087.873	1192.786	1233.740	1192.786	1087.873	943.042
150.0	699.813	736.634	812.472	932.362	1057.812	1149.844	1184.984	1149.844	1057.812	932.362
152.5	718.072	751.879	817.166	919.875	1026.895	1105.447	1137.443	1105.447	1026.895	919.875
155.0	734.695	765.918	820.353	907.903	996.706	1061.649	1089.466	1061.649	996.706	907.903
157.5	751.664	779.225	822.463	894.722	967.938	1015.393	1043.047	1015.393	967.938	894.722
160.0	766.305	790.767	822.980	882.407	943.128	982.840	999.721	982.840	943.128	882.407
162.5	778.105	801.017	823.712	870.220	917.597	948.643	961.738	948.643	917.597	870.220
165.0	790.077	810.017	823.755	858.375	894.165	917.854	927.369	917.854	894.165	858.375
167.5	800.241	817.596	823.884	848.087	873.063	888.873	898.088	888.873	873.063	848.087
170.0	808.509	824.401	824.228	839.775	855.408	864.447	869.920	864.447	855.408	839.775
172.5	814.970	829.353	824.444	832.584	841.240	845.589	849.250	845.589	841.240	832.584
175.0	819.018	832.584	824.746	828.406	832.669	832.540	834.952	832.540	832.669	828.406
177.5	821.257	834.650	824.746	825.693	827.157	825.564	826.597	825.564	827.157	825.693
180.0	826.209	826.209	826.209	826.209	826.209	826.209	826.209	826.209	826.209	826.209

**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

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**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	2.726	2.399	2.463	2.399	2.726	2.580	3.105	3.286	2.498	3.286
92.5	40.149	38.612	32.126	38.612	40.149	43.569	46.860	45.291	50.473	45.291
95.0	77.044	81.954	64.228	81.954	77.044	80.356	82.397	81.644	83.185	81.644
97.5	127.517	124.463	94.890	124.463	127.517	113.391	114.954	116.992	117.715	116.992
100.0	211.098	168.050	128.671	168.050	211.098	202.868	147.034	145.824	149.592	145.824
102.5	269.878	210.288	163.184	210.288	269.878	333.469	264.857	208.605	188.291	208.605
105.0	329.911	252.324	198.635	252.324	329.911	451.540	457.933	362.233	318.728	362.233
107.5	393.687	296.070	234.819	296.070	393.687	514.631	643.914	566.402	538.896	566.402
110.0	453.005	337.155	273.207	337.155	453.005	601.021	736.160	768.330	761.310	768.330
112.5	495.510	374.669	311.612	374.669	495.510	724.876	811.569	864.148	884.308	864.148
115.0	537.542	412.652	350.750	412.652	537.542	818.889	943.393	946.964	944.772	946.964
117.5	577.292	451.584	391.723	451.584	577.292	855.581	1104.839	1106.175	1085.681	1106.175
120.0	614.630	484.916	423.936	484.916	614.630	878.150	1210.094	1301.304	1290.154	1301.304
122.5	646.196	512.780	453.909	512.780	646.196	898.174	1233.869	1436.320	1477.232	1436.320
125.0	675.481	539.610	481.988	539.610	675.481	916.047	1230.332	1470.124	1546.046	1470.124
127.5	700.545	562.822	507.224	562.822	700.545	932.020	1221.810	1454.494	1536.489	1454.494
130.0	721.604	585.129	530.479	585.129	721.604	947.007	1212.073	1429.084	1506.685	1429.084
132.5	740.595	606.447	552.616	606.447	740.595	957.302	1202.986	1401.695	1473.267	1401.695
135.0	756.961	627.205	574.837	627.205	756.961	963.930	1193.514	1371.155	1438.213	1371.163
137.5	769.579	646.541	595.595	646.541	769.579	966.303	1179.520	1341.188	1402.038	1341.188
140.0	781.508	666.437	617.558	666.437	781.508	965.095	1162.031	1307.899	1365.434	1307.899
142.5	791.714	685.041	639.177	685.041	791.714	960.231	1141.100	1272.194	1323.828	1272.194
145.0	799.983	703.085	661.053	703.085	799.983	953.036	1115.613	1235.025	1279.988	1235.025
147.5	807.089	720.700	680.003	720.700	807.089	943.042	1087.873	1192.786	1233.740	1192.786
150.0	812.472	736.634	699.813	736.634	812.472	932.362	1057.812	1149.844	1184.984	1149.844
152.5	817.166	751.879	718.072	751.879	817.166	919.875	1026.895	1105.447	1137.443	1105.447
155.0	820.353	765.918	734.695	765.918	820.353	907.903	996.706	1061.649	1089.466	1061.649
157.5	822.463	779.225	751.664	779.225	822.463	894.722	967.938	1015.393	1043.047	1015.393
160.0	822.980	790.767	766.305	790.767	822.980	882.407	943.128	982.840	999.721	982.840
162.5	823.712	801.017	778.105	801.017	823.712	870.220	917.597	948.643	961.738	948.643
165.0	823.755	810.017	790.077	810.017	823.755	858.375	894.165	917.854	927.369	917.854
167.5	823.884	817.596	800.241	817.596	823.884	848.087	873.063	888.873	898.088	888.873
170.0	824.228	824.401	808.509	824.401	824.228	839.775	855.408	864.447	869.920	864.447
172.5	824.444	829.353	814.970	829.353	824.444	832.584	841.240	845.589	849.250	845.589
175.0	824.746	832.584	819.018	832.584	824.746	828.406	832.669	832.540	834.952	832.540
177.5	824.746	834.650	821.257	834.650	824.746	825.693	827.157	825.564	826.597	825.564
180.0	826.209	826.209	826.209	826.209	826.209	826.209	826.209	826.209	826.209	826.209

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-H-S-835-WSO-KPL2008-102.007.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	3.105	2.580	2.726	2.399	2.463
92.5	46.860	43.569	40.149	38.612	32.126
95.0	82.397	80.356	77.044	81.954	64.228
97.5	114.954	113.391	127.517	124.463	94.890
100.0	147.034	202.868	211.098	168.050	128.671
102.5	264.857	333.469	269.878	210.288	163.184
105.0	457.933	451.540	329.911	252.324	198.635
107.5	643.914	514.631	393.687	296.070	234.819
110.0	736.160	601.021	453.005	337.155	273.207
112.5	811.569	724.876	495.510	374.669	311.612
115.0	943.393	818.889	537.542	412.652	350.750
117.5	1104.839	855.581	577.292	451.584	391.723
120.0	1210.094	878.150	614.630	484.916	423.936
122.5	1233.869	898.174	646.196	512.780	453.909
125.0	1230.332	916.047	675.481	539.610	481.988
127.5	1221.810	932.020	700.545	562.822	507.224
130.0	1212.073	947.007	721.604	585.129	530.479
132.5	1202.986	957.302	740.595	606.447	552.616
135.0	1193.514	963.930	756.961	627.205	574.837
137.5	1179.520	966.303	769.579	646.541	595.595
140.0	1162.031	965.095	781.508	666.437	617.558
142.5	1141.100	960.231	791.714	685.041	639.177
145.0	1115.613	953.036	799.983	703.085	661.053
147.5	1087.873	943.042	807.089	720.700	680.003
150.0	1057.812	932.362	812.472	736.634	699.813
152.5	1026.895	919.875	817.166	751.879	718.072
155.0	996.706	907.903	820.353	765.918	734.695
157.5	967.938	894.722	822.463	779.225	751.664
160.0	943.128	882.407	822.980	790.767	766.305
162.5	917.597	870.220	823.712	801.017	778.105
165.0	894.165	858.375	823.755	810.017	790.077
167.5	873.063	848.087	823.884	817.596	800.241

**IES INDOOR REPORT**

**PHOTOMETRIC FILENAME : HP3-P-ID-4FT-H-S-835-WSO-KPL2008-102.007.IES**

**CANDELA TABULATION - (Cont.)**

<b>170.0</b>	855.408	839.775	824.228	824.401	808.509
<b>172.5</b>	841.240	832.584	824.444	829.353	814.970
<b>175.0</b>	832.669	828.406	824.746	832.584	819.018
<b>177.5</b>	827.157	825.693	824.746	834.650	821.257
<b>180.0</b>	826.209	826.209	826.209	826.209	826.209

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : HP3-P-ID-4FT-H-S-835-WSO-KPL2008-102.007.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	314.21	N.A.	5.00
0-30	648.84	N.A.	10.30
0-40	1028.1	N.A.	16.40
0-60	1706.8	N.A.	27.20
0-80	2069.06	N.A.	33.00
0-90	2111.99	N.A.	33.70
10-90	2029.23	N.A.	32.40
20-40	713.89	N.A.	11.40
20-50	1081.09	N.A.	17.20
40-70	907.17	N.A.	14.50
60-80	362.26	N.A.	5.80
70-80	133.78	N.A.	2.10
80-90	42.94	N.A.	0.70
90-110	465.56	N.A.	7.40
90-120	1182.75	N.A.	18.90
90-130	2044.13	N.A.	32.60
90-150	3411.31	N.A.	54.40
90-180	4157.96	N.A.	66.30
110-180	3692.4	N.A.	58.90
0-180	6269.95	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	42.94
90-100	88.52
100-110	377.04
110-120	717.18
120-130	861.38
130-140	762.81
140-150	604.37
150-160	422.33
160-170	244.77
170-180	79.56



# IES INDOOR REPORT

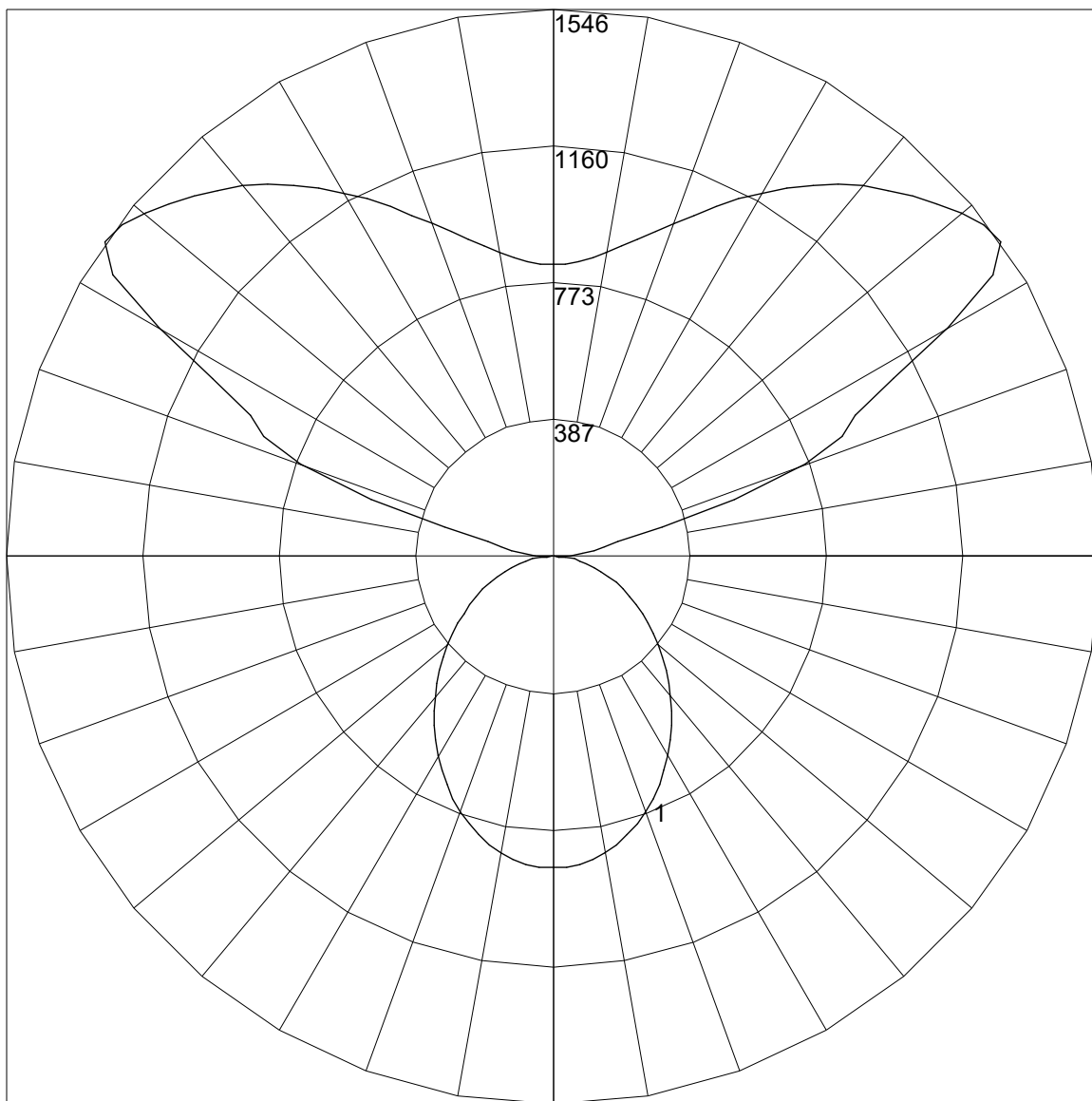
PHOTOMETRIC FILENAME : HP3-P-ID-4FT-H-S-835-WSO-KPL2008-102.007.IES

## 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	103	103	103	103	93	93	93	93	74	74	74	57	57	57	41	41	41	34
1	94	90	86	83	85	81	78	75	65	63	61	50	49	47	36	36	35	28
2	86	79	73	68	77	71	66	62	57	54	50	44	42	40	32	31	29	24
3	78	69	62	56	70	63	57	52	50	46	42	39	36	34	28	27	25	20
4	72	61	53	48	64	55	49	44	45	40	36	35	31	29	25	23	22	18
5	66	54	47	41	59	49	43	38	40	35	31	31	28	25	23	21	19	15
6	60	49	41	35	54	44	38	33	36	31	27	28	25	22	21	19	17	13
7	56	44	36	31	50	40	33	28	33	28	24	26	22	19	19	17	15	12
8	52	40	32	27	47	36	30	25	30	25	21	23	20	17	18	15	13	11
9	48	36	29	24	43	33	27	22	27	22	19	22	18	15	16	14	12	10
10	45	33	26	22	41	30	24	20	25	20	17	20	16	14	15	13	11	9

POLAR GRAPH



Maximum Candela = 1546.046 Located At Horizontal Angle = 90, Vertical Angle = 125  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270)