

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : HP3-P-D-4FT-H-835-DSO-120.603.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TESTLAB] Northern Lights Testing Laboratories  
[TESTDATE] 1/23/2025  
[ISSUEDATE] 1/23/2025  
[MANUFAC] Finelite, Inc.  
[LUMCAT] HP3-P-ID-4ft-H-835-DSO  
[LUMINAIRE] HP3 Series  
[LAMPCAT] 160 757HT-V2H6 LEDs with 80CRI  
[LAMP] Nichia

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3406
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	111
Total Luminaire Watts	30.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.42
Spacing Criterion (90-270)	1.16
Spacing Criterion (Diagonal)	1.44
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	1.22 m
Luminous Width (90-270)	0.10 m
Luminous Height	0.00 m

**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	10050	9603	7459
55	8986	8889	6773
65	7754	7907	6106
75	6496	6743	5460
85	4906	5272	4859

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**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>
<b>0.0</b>	1181.116	1181.116	1181.116	1181.116	1181.116	1181.116	1181.116	1181.116	1181.116	1181.116
<b>2.5</b>	1181.414	1185.801	1186.693	1188.083	1180.629	1169.393	1169.928	1169.393	1180.629	1188.083
<b>5.0</b>	1186.479	1190.081	1189.225	1187.656	1177.526	1164.186	1163.722	1164.186	1177.526	1187.656
<b>7.5</b>	1192.828	1195.574	1191.793	1186.193	1172.032	1155.304	1153.877	1155.304	1172.032	1186.193
<b>10.0</b>	1204.098	1204.990	1195.360	1183.518	1165.185	1145.924	1143.105	1145.924	1165.185	1183.518
<b>12.5</b>	1214.870	1214.443	1201.174	1181.378	1155.483	1127.697	1122.347	1127.697	1155.483	1181.378
<b>15.0</b>	1222.647	1220.863	1203.493	1180.023	1140.074	1108.721	1100.803	1108.721	1140.074	1180.023
<b>17.5</b>	1227.141	1223.824	1203.706	1170.071	1124.986	1086.714	1076.049	1086.714	1124.986	1170.071
<b>20.0</b>	1227.640	1222.754	1201.459	1159.478	1108.186	1061.781	1048.156	1061.781	1108.186	1159.478
<b>22.5</b>	1222.218	1216.904	1190.366	1145.210	1088.069	1033.674	1017.623	1033.674	1088.069	1145.210
<b>25.0</b>	1210.519	1204.777	1176.777	1127.412	1064.064	1003.178	984.380	1003.178	1064.064	1127.412
<b>27.5</b>	1191.686	1186.443	1158.300	1106.082	1036.920	969.899	948.498	969.899	1036.920	1106.082
<b>30.0</b>	1165.791	1161.189	1134.224	1080.187	1006.673	934.552	910.546	934.552	1006.673	1080.187
<b>32.5</b>	1132.833	1129.623	1104.512	1050.510	973.252	898.063	871.168	898.063	973.252	1050.510
<b>35.0</b>	1093.384	1091.886	1069.557	1016.625	937.547	859.326	829.508	859.326	937.547	1016.625
<b>37.5</b>	1047.371	1047.656	1029.465	978.816	898.883	818.450	787.347	818.450	898.883	978.816
<b>40.0</b>	996.080	998.006	984.416	937.619	858.256	776.255	744.189	776.255	858.256	937.619
<b>42.5</b>	941.436	944.753	935.693	892.748	814.955	732.204	700.388	732.204	814.955	892.748
<b>45.0</b>	884.009	888.147	882.796	844.667	769.941	688.082	656.088	688.082	769.941	844.667
<b>47.5</b>	824.443	828.830	827.796	794.517	722.752	642.890	611.858	642.890	722.752	794.517
<b>50.0</b>	763.735	769.014	771.047	742.049	674.635	597.805	568.343	597.805	674.635	742.049
<b>52.5</b>	702.528	708.663	713.157	688.546	625.341	552.862	525.612	552.862	625.341	688.546
<b>55.0</b>	641.107	648.062	654.660	634.222	575.547	508.348	483.237	508.348	575.547	634.222
<b>57.5</b>	580.684	587.818	595.629	579.079	525.076	464.083	441.363	464.083	525.076	579.079
<b>60.0</b>	521.617	527.788	536.526	524.113	475.319	419.993	400.158	419.993	475.319	524.113
<b>62.5</b>	464.262	469.684	479.493	469.755	425.326	377.483	360.067	377.483	425.326	469.755
<b>65.0</b>	407.627	413.812	423.450	415.649	377.687	336.069	320.974	336.069	377.687	415.649
<b>67.5</b>	354.602	359.582	368.513	362.738	330.586	295.742	283.194	295.742	330.586	362.738
<b>70.0</b>	303.289	307.966	316.519	312.343	285.459	256.275	245.942	256.275	285.459	312.343
<b>72.5</b>	254.559	258.990	266.480	263.459	241.765	218.042	209.909	218.042	241.765	263.459
<b>75.0</b>	209.146	212.552	217.988	217.093	199.826	181.407	175.767	181.407	199.826	217.093
<b>77.5</b>	166.487	169.015	173.567	173.164	160.198	146.459	142.710	146.459	160.198	173.164
<b>80.0</b>	125.489	128.100	131.578	131.521	122.646	112.916	111.172	112.916	122.646	131.521
<b>82.5</b>	88.166	89.197	92.371	92.952	87.606	81.913	81.574	81.913	87.606	92.952
<b>85.0</b>	53.189	54.013	56.506	57.155	54.922	52.122	52.682	52.122	54.922	57.155
<b>87.5</b>	22.207	22.471	23.798	25.050	24.918	24.529	25.603	24.529	24.918	25.050
<b>90.0</b>	1.784	1.862	1.983	2.147	2.269	2.308	3.017	2.308	2.269	2.147
<b>92.5</b>	1.312	1.348	1.413	1.491	1.505	1.430	1.398	1.430	1.505	1.491
<b>95.0</b>	1.156	1.184	1.238	1.284	1.288	1.220	1.205	1.220	1.288	1.284
<b>97.5</b>	1.098	1.124	1.163	1.202	1.199	1.134	1.134	1.134	1.199	1.202
<b>100.0</b>	1.085	1.106	1.145	1.181	1.166	1.117	1.106	1.117	1.166	1.181
<b>102.5</b>	1.085	1.106	1.141	1.159	1.149	1.098	1.091	1.098	1.149	1.159
<b>105.0</b>	1.085	1.113	1.141	1.159	1.138	1.098	1.098	1.098	1.138	1.159
<b>107.5</b>	1.098	1.117	1.149	1.163	1.134	1.102	1.098	1.102	1.134	1.163
<b>110.0</b>	1.098	1.120	1.152	1.159	1.134	1.102	1.098	1.102	1.134	1.159
<b>112.5</b>	1.120	1.138	1.170	1.181	1.152	1.120	1.120	1.120	1.152	1.181
<b>115.0</b>	1.127	1.149	1.166	1.170	1.141	1.102	1.098	1.102	1.141	1.170
<b>117.5</b>	1.149	1.166	1.188	1.177	1.152	1.113	1.106	1.113	1.152	1.177
<b>120.0</b>	1.213	1.234	1.245	1.234	1.199	1.152	1.141	1.152	1.199	1.234
<b>122.5</b>	1.327	1.341	1.355	1.338	1.291	1.234	1.220	1.234	1.291	1.338
<b>125.0</b>	1.477	1.498	1.505	1.473	1.413	1.345	1.334	1.345	1.413	1.473
<b>127.5</b>	1.683	1.691	1.666	1.623	1.566	1.498	1.477	1.498	1.566	1.623
<b>130.0</b>	1.869	1.872	1.859	1.808	1.730	1.659	1.648	1.659	1.730	1.808
<b>132.5</b>	2.054	2.058	2.044	1.990	1.915	1.859	1.840	1.859	1.915	1.990

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**CANDELA TABULATION - (Cont.)**

135.0	2.269	2.269	2.251	2.194	2.125	2.080	2.076	2.080	2.125	2.194
137.5	2.490	2.496	2.464	2.415	2.361	2.315	2.311	2.315	2.361	2.415
140.0	2.718	2.718	2.689	2.633	2.575	2.561	2.561	2.561	2.575	2.633
142.5	2.932	2.939	2.903	2.854	2.804	2.789	2.811	2.789	2.804	2.854
145.0	3.124	3.124	3.085	3.049	3.017	3.014	3.032	3.014	3.017	3.049
147.5	3.310	3.300	3.278	3.242	3.217	3.217	3.253	3.217	3.217	3.242
150.0	3.467	3.467	3.442	3.417	3.403	3.413	3.446	3.413	3.403	3.417
152.5	3.609	3.613	3.602	3.585	3.585	3.599	3.638	3.599	3.585	3.585
155.0	3.759	3.752	3.748	3.742	3.748	3.763	3.802	3.763	3.748	3.742
157.5	3.888	3.888	3.888	3.892	3.898	3.913	3.973	3.913	3.898	3.892
160.0	4.038	4.023	4.027	4.034	4.038	4.059	4.116	4.059	4.038	4.034
162.5	4.138	4.127	4.155	4.155	4.159	4.177	4.223	4.177	4.159	4.155
165.0	4.245	4.252	4.269	4.269	4.273	4.291	4.323	4.291	4.273	4.269
167.5	4.373	4.383	4.394	4.391	4.383	4.405	4.437	4.405	4.383	4.391
170.0	4.458	4.509	4.509	4.494	4.498	4.512	4.537	4.512	4.498	4.494
172.5	4.552	4.601	4.591	4.576	4.584	4.594	4.616	4.594	4.584	4.576
175.0	4.659	4.691	4.672	4.651	4.655	4.662	4.680	4.662	4.655	4.651
177.5	4.779	4.740	4.715	4.701	4.708	4.708	4.723	4.708	4.708	4.701
180.0	4.752	4.752	4.752	4.752	4.752	4.752	4.752	4.752	4.752	4.752

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	1181.116	1181.116	1181.116	1181.116	1181.116	1181.116	1181.116	1181.116	1181.116	1181.116
2.5	1186.693	1185.801	1181.414	1185.801	1186.693	1188.083	1180.629	1169.393	1169.928	1169.393
5.0	1189.225	1190.081	1186.479	1190.081	1189.225	1187.656	1177.526	1164.186	1163.722	1164.186
7.5	1191.793	1195.574	1192.828	1195.574	1191.793	1186.193	1172.032	1155.304	1153.877	1155.304
10.0	1195.360	1204.990	1204.098	1204.990	1195.360	1183.518	1165.185	1145.924	1143.105	1145.924
12.5	1201.174	1214.443	1214.870	1214.443	1201.174	1181.378	1155.483	1127.697	1122.347	1127.697
15.0	1203.493	1220.863	1222.647	1220.863	1203.493	1180.023	1140.074	1108.721	1100.803	1108.721
17.5	1203.706	1223.824	1227.141	1223.824	1203.706	1170.071	1124.986	1086.714	1076.049	1086.714
20.0	1201.459	1222.754	1227.640	1222.754	1201.459	1159.478	1108.186	1061.781	1048.156	1061.781
22.5	1190.366	1216.904	1222.218	1216.904	1190.366	1145.210	1088.069	1033.674	1017.623	1033.674
25.0	1176.777	1204.777	1210.519	1204.777	1176.777	1127.412	1064.064	1003.178	984.380	1003.178
27.5	1158.300	1186.443	1191.686	1186.443	1158.300	1106.082	1036.920	969.899	948.498	969.899
30.0	1134.224	1161.189	1165.791	1161.189	1134.224	1080.187	1006.673	934.552	910.546	934.552
32.5	1104.512	1129.623	1132.833	1129.623	1104.512	1050.510	973.252	898.063	871.168	898.063
35.0	1069.557	1091.886	1093.384	1091.886	1069.557	1016.625	937.547	859.326	829.508	859.326
37.5	1029.465	1047.656	1047.371	1047.656	1029.465	978.816	898.883	818.450	787.347	818.450
40.0	984.416	998.006	996.080	998.006	984.416	937.619	858.256	776.255	744.189	776.255
42.5	935.693	944.753	941.436	944.753	935.693	892.748	814.955	732.204	700.388	732.204
45.0	882.796	888.147	884.009	888.147	882.796	844.667	769.941	688.082	656.088	688.082
47.5	827.796	828.830	824.443	828.830	827.796	794.517	722.752	642.890	611.858	642.890
50.0	771.047	769.014	763.735	769.014	771.047	742.049	674.635	597.805	568.343	597.805
52.5	713.157	708.663	702.528	708.663	713.157	688.546	625.341	552.862	525.612	552.862
55.0	654.660	648.062	641.107	648.062	654.660	634.222	575.547	508.348	483.237	508.348
57.5	595.629	587.818	580.684	587.818	595.629	579.079	525.076	464.083	441.363	464.083
60.0	536.526	527.788	521.617	527.788	536.526	524.113	475.319	419.993	400.158	419.993
62.5	479.493	469.684	464.262	469.684	479.493	469.755	425.326	377.483	360.067	377.483
65.0	423.450	413.812	407.627	413.812	423.450	415.649	377.687	336.069	320.974	336.069
67.5	368.513	359.582	354.602	359.582	368.513	362.738	330.586	295.742	283.194	295.742
70.0	316.519	307.966	303.289	307.966	316.519	312.343	285.459	256.275	245.942	256.275
72.5	266.480	258.990	254.559	258.990	266.480	263.459	241.765	218.042	209.909	218.042
75.0	217.988	212.552	209.146	212.552	217.988	217.093	199.826	181.407	175.767	181.407
77.5	173.567	169.015	166.487	169.015	173.567	173.164	160.198	146.459	142.710	146.459
80.0	131.578	128.100	125.489	128.100	131.578	131.521	122.646	112.916	111.172	112.916

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**CANDELA TABULATION - (Cont.)**

82.5	92.371	89.197	88.166	89.197	92.371	92.952	87.606	81.913	81.574	81.913
85.0	56.506	54.013	53.189	54.013	56.506	57.155	54.922	52.122	52.682	52.122
87.5	23.798	22.471	22.207	22.471	23.798	25.050	24.918	24.529	25.603	24.529
90.0	1.983	1.862	1.784	1.862	1.983	2.147	2.269	2.308	3.017	2.308
92.5	1.413	1.348	1.312	1.348	1.413	1.491	1.505	1.430	1.398	1.430
95.0	1.238	1.184	1.156	1.184	1.238	1.284	1.288	1.220	1.205	1.220
97.5	1.163	1.124	1.098	1.124	1.163	1.202	1.199	1.134	1.134	1.134
100.0	1.145	1.106	1.085	1.106	1.145	1.181	1.166	1.117	1.106	1.117
102.5	1.141	1.106	1.085	1.106	1.141	1.159	1.149	1.098	1.091	1.098
105.0	1.141	1.113	1.085	1.113	1.141	1.159	1.138	1.098	1.098	1.098
107.5	1.149	1.117	1.098	1.117	1.149	1.163	1.134	1.102	1.098	1.102
110.0	1.152	1.120	1.098	1.120	1.152	1.159	1.134	1.102	1.098	1.102
112.5	1.170	1.138	1.120	1.138	1.170	1.181	1.152	1.120	1.120	1.120
115.0	1.166	1.149	1.127	1.149	1.166	1.170	1.141	1.102	1.098	1.102
117.5	1.188	1.166	1.149	1.166	1.188	1.177	1.152	1.113	1.106	1.113
120.0	1.245	1.234	1.213	1.234	1.245	1.234	1.199	1.152	1.141	1.152
122.5	1.355	1.341	1.327	1.341	1.355	1.338	1.291	1.234	1.220	1.234
125.0	1.505	1.498	1.477	1.498	1.505	1.473	1.413	1.345	1.334	1.345
127.5	1.666	1.691	1.683	1.691	1.666	1.623	1.566	1.498	1.477	1.498
130.0	1.859	1.872	1.869	1.872	1.859	1.808	1.730	1.659	1.648	1.659
132.5	2.044	2.058	2.054	2.058	2.044	1.990	1.915	1.859	1.840	1.859
135.0	2.251	2.269	2.269	2.269	2.251	2.194	2.125	2.080	2.076	2.080
137.5	2.464	2.496	2.490	2.496	2.464	2.415	2.361	2.315	2.311	2.315
140.0	2.689	2.718	2.718	2.718	2.689	2.633	2.575	2.561	2.561	2.561
142.5	2.903	2.939	2.932	2.939	2.903	2.854	2.804	2.789	2.811	2.789
145.0	3.085	3.124	3.124	3.124	3.085	3.049	3.017	3.014	3.032	3.014
147.5	3.278	3.300	3.310	3.300	3.278	3.242	3.217	3.217	3.253	3.217
150.0	3.442	3.467	3.467	3.467	3.442	3.417	3.403	3.413	3.446	3.413
152.5	3.602	3.613	3.609	3.613	3.602	3.585	3.585	3.599	3.638	3.599
155.0	3.748	3.752	3.759	3.752	3.748	3.742	3.748	3.763	3.802	3.763
157.5	3.888	3.888	3.888	3.888	3.888	3.892	3.898	3.913	3.973	3.913
160.0	4.027	4.023	4.038	4.023	4.027	4.034	4.038	4.059	4.116	4.059
162.5	4.155	4.127	4.138	4.127	4.155	4.155	4.159	4.177	4.223	4.177
165.0	4.269	4.252	4.245	4.252	4.269	4.269	4.273	4.291	4.323	4.291
167.5	4.394	4.383	4.373	4.383	4.394	4.391	4.383	4.405	4.437	4.405
170.0	4.509	4.509	4.458	4.509	4.509	4.494	4.498	4.512	4.537	4.512
172.5	4.591	4.601	4.552	4.601	4.591	4.576	4.584	4.594	4.616	4.594
175.0	4.672	4.691	4.659	4.691	4.672	4.651	4.655	4.662	4.680	4.662
177.5	4.715	4.740	4.779	4.740	4.715	4.701	4.708	4.708	4.723	4.708
180.0	4.752	4.752	4.752	4.752	4.752	4.752	4.752	4.752	4.752	4.752

**Vert. Horizontal Angles**

	<u>300</u>	<u>315</u>	<u>330</u>	<u>345</u>	<u>360</u>
0.0	1181.116	1181.116	1181.116	1181.116	1181.116
2.5	1180.629	1188.083	1186.693	1185.801	1181.414
5.0	1177.526	1187.656	1189.225	1190.081	1186.479
7.5	1172.032	1186.193	1191.793	1195.574	1192.828
10.0	1165.185	1183.518	1195.360	1204.990	1204.098
12.5	1155.483	1181.378	1201.174	1214.443	1214.870
15.0	1140.074	1180.023	1203.493	1220.863	1222.647
17.5	1124.986	1170.071	1203.706	1223.824	1227.141
20.0	1108.186	1159.478	1201.459	1222.754	1227.640
22.5	1088.069	1145.210	1190.366	1216.904	1222.218
25.0	1064.064	1127.412	1176.777	1204.777	1210.519
27.5	1036.920	1106.082	1158.300	1186.443	1191.686

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : HP3-P-D-4FT-H-835-DSO-120.603.IES**

**CANDELA TABULATION - (Cont.)**

30.0	1006.673	1080.187	1134.224	1161.189	1165.791
32.5	973.252	1050.510	1104.512	1129.623	1132.833
35.0	937.547	1016.625	1069.557	1091.886	1093.384
37.5	898.883	978.816	1029.465	1047.656	1047.371
40.0	858.256	937.619	984.416	998.006	996.080
42.5	814.955	892.748	935.693	944.753	941.436
45.0	769.941	844.667	882.796	888.147	884.009
47.5	722.752	794.517	827.796	828.830	824.443
50.0	674.635	742.049	771.047	769.014	763.735
52.5	625.341	688.546	713.157	708.663	702.528
55.0	575.547	634.222	654.660	648.062	641.107
57.5	525.076	579.079	595.629	587.818	580.684
60.0	475.319	524.113	536.526	527.788	521.617
62.5	425.326	469.755	479.493	469.684	464.262
65.0	377.687	415.649	423.450	413.812	407.627
67.5	330.586	362.738	368.513	359.582	354.602
70.0	285.459	312.343	316.519	307.966	303.289
72.5	241.765	263.459	266.480	258.990	254.559
75.0	199.826	217.093	217.988	212.552	209.146
77.5	160.198	173.164	173.567	169.015	166.487
80.0	122.646	131.521	131.578	128.100	125.489
82.5	87.606	92.952	92.371	89.197	88.166
85.0	54.922	57.155	56.506	54.013	53.189
87.5	24.918	25.050	23.798	22.471	22.207
90.0	2.269	2.147	1.983	1.862	1.784
92.5	1.505	1.491	1.413	1.348	1.312
95.0	1.288	1.284	1.238	1.184	1.156
97.5	1.199	1.202	1.163	1.124	1.098
100.0	1.166	1.181	1.145	1.106	1.085
102.5	1.149	1.159	1.141	1.106	1.085
105.0	1.138	1.159	1.141	1.113	1.085
107.5	1.134	1.163	1.149	1.117	1.098
110.0	1.134	1.159	1.152	1.120	1.098
112.5	1.152	1.181	1.170	1.138	1.120
115.0	1.141	1.170	1.166	1.149	1.127
117.5	1.152	1.177	1.188	1.166	1.149
120.0	1.199	1.234	1.245	1.234	1.213
122.5	1.291	1.338	1.355	1.341	1.327
125.0	1.413	1.473	1.505	1.498	1.477
127.5	1.566	1.623	1.666	1.691	1.683
130.0	1.730	1.808	1.859	1.872	1.869
132.5	1.915	1.990	2.044	2.058	2.054
135.0	2.125	2.194	2.251	2.269	2.269
137.5	2.361	2.415	2.464	2.496	2.490
140.0	2.575	2.633	2.689	2.718	2.718
142.5	2.804	2.854	2.903	2.939	2.932
145.0	3.017	3.049	3.085	3.124	3.124
147.5	3.217	3.242	3.278	3.300	3.310
150.0	3.403	3.417	3.442	3.467	3.467
152.5	3.585	3.585	3.602	3.613	3.609
155.0	3.748	3.742	3.748	3.752	3.759
157.5	3.898	3.892	3.888	3.888	3.888
160.0	4.038	4.034	4.027	4.023	4.038
162.5	4.159	4.155	4.155	4.127	4.138
165.0	4.273	4.269	4.269	4.252	4.245
167.5	4.383	4.391	4.394	4.383	4.373

**IES INDOOR REPORT**  
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**CANDELA TABULATION - (Cont.)**

<b>170.0</b>	4.498	4.494	4.509	4.509	4.458
<b>172.5</b>	4.584	4.576	4.591	4.601	4.552
<b>175.0</b>	4.655	4.651	4.672	4.691	4.659
<b>177.5</b>	4.708	4.701	4.715	4.740	4.779
<b>180.0</b>	4.752	4.752	4.752	4.752	4.752

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	442.94	N.A.	13.00
0-30	955.10	N.A.	28.00
0-40	1572.89	N.A.	46.20
0-60	2728.81	N.A.	80.10
0-80	3330.85	N.A.	97.80
0-90	3393.43	N.A.	99.60
10-90	3280.83	N.A.	96.30
20-40	1129.95	N.A.	33.20
20-50	1751.98	N.A.	51.40
40-70	1541.36	N.A.	45.30
60-80	602.04	N.A.	17.70
70-80	216.59	N.A.	6.40
80-90	62.58	N.A.	1.80
90-110	2.68	N.A.	0.10
90-120	3.83	N.A.	0.10
90-130	5.13	N.A.	0.20
90-150	8.73	N.A.	0.30
90-180	12.10	N.A.	0.40
110-180	9.42	N.A.	0.30
0-180	3405.53	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	112.59
10-20	330.34
20-30	512.16
30-40	617.79
40-50	622.03
50-60	533.89
60-70	385.44
70-80	216.59
80-90	62.58
90-100	1.49
100-110	1.19
110-120	1.14
120-130	1.31
130-140	1.69
140-150	1.91
150-160	1.73
160-170	1.21
170-180	0.44

**IES INDOOR REPORT**  
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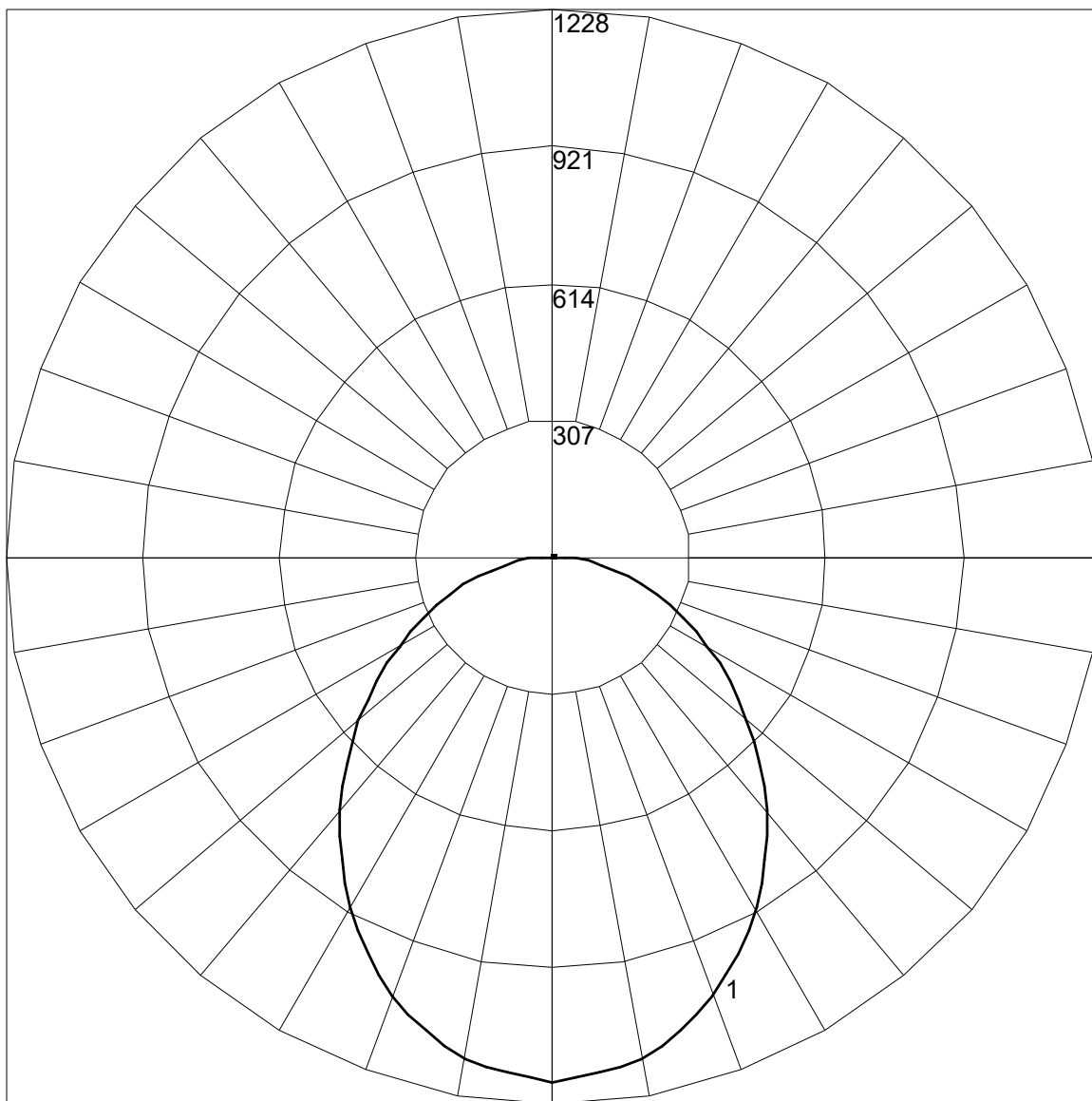
**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	95	98	94	91	94	91	89	90	88	86	84
2	99	91	84	79	96	89	83	78	85	80	76	82	78	74	79	75	72	70
3	90	80	72	66	88	78	71	65	75	69	64	73	67	63	70	65	61	59
4	83	71	62	56	81	70	62	55	67	60	54	65	59	54	63	57	53	51
5	76	63	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	41	38
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25



POLAR GRAPH



Maximum Candela = 1227.64 Located At Horizontal Angle = 0, Vertical Angle = 20  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270)