

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-B-835-F-F-KPL2008-50.006.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST] KPL2008-50.006 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-B-835-F-F
[LUMINAIRE] HP3 Series
[LAMPCAT] 320 LM561B+ LEDs with 80 CRI
[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 50.8 WATTS
[ABSOLUTELUMENS]6707
[LAMP] Samsung
[BALLAST] Osram
[BALLASTCAT] x2 @ 700mA

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6709
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	132
Total Luminaire Watts	50.8
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	10472	9994	9508
55	9527	8977	8516
65	8604	8085	7648
75	7677	7153	6903
85	6901	6477	6068

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	1208.922	1208.922	1208.922	1208.922	1208.922	1208.922	1208.922	1208.922	1208.922	1208.922
2.5	1200.649	1218.682	1203.892	1204.560	1205.613	1203.850	1207.376	1203.850	1205.613	1204.560
5.0	1194.858	1212.549	1197.716	1197.925	1198.009	1196.287	1199.647	1196.287	1198.009	1197.925
7.5	1186.034	1202.296	1187.204	1186.243	1185.993	1183.678	1186.619	1183.678	1185.993	1186.243
10.0	1178.046	1194.558	1175.572	1171.160	1169.347	1165.486	1168.553	1165.486	1169.347	1171.160
12.5	1155.442	1173.049	1156.027	1155.902	1147.754	1143.677	1145.189	1143.677	1147.754	1155.902
15.0	1133.674	1149.225	1131.276	1131.067	1124.390	1117.413	1118.549	1117.413	1124.390	1131.067
17.5	1108.798	1122.961	1104.385	1101.152	1098.085	1086.612	1087.957	1086.612	1098.085	1101.152
20.0	1081.489	1094.600	1075.899	1068.295	1064.810	1054.474	1054.340	1054.474	1064.810	1068.295
22.5	1051.482	1061.109	1043.418	1032.873	1025.937	1018.625	1017.447	1018.625	1025.937	1032.873
25.0	1022.829	1029.764	1007.996	996.648	985.936	978.415	978.457	978.415	985.936	996.648
27.5	980.646	990.682	971.479	959.463	946.820	937.996	934.670	937.996	946.820	959.463
30.0	943.160	945.976	930.601	918.576	903.911	894.627	891.895	894.627	903.911	918.576
32.5	902.407	910.136	887.274	877.656	860.926	850.799	846.855	850.799	860.926	877.656
35.0	862.648	867.904	847.105	832.021	824.037	805.212	803.909	805.212	824.037	832.021
37.5	820.969	822.693	803.321	787.606	771.470	760.546	757.436	760.546	771.470	787.606
40.0	774.160	777.353	758.235	741.805	726.384	715.880	711.215	715.880	726.384	741.805
42.5	730.124	731.006	712.728	698.063	681.886	671.381	666.675	671.381	681.886	698.063
45.0	685.668	687.097	667.851	654.364	636.085	625.833	622.555	625.833	636.085	654.364
47.5	639.951	639.951	623.480	608.815	591.503	581.082	577.931	581.082	591.503	608.815
50.0	593.982	595.495	577.216	563.476	546.500	537.929	534.147	537.929	546.500	563.476
52.5	548.433	550.072	532.760	519.735	504.860	495.153	492.800	495.153	504.860	519.735
55.0	505.994	505.196	490.573	476.749	464.101	457.042	452.294	457.042	464.101	476.749
57.5	463.051	459.647	446.411	435.234	423.006	414.602	411.704	414.602	423.006	435.234
60.0	419.351	416.452	405.779	392.963	382.374	375.483	372.290	375.483	382.374	392.963
62.5	378.004	375.315	364.978	352.725	340.686	336.275	334.498	336.275	340.686	352.725
65.0	336.690	333.821	325.699	316.404	305.382	301.748	299.302	301.748	305.382	316.404
67.5	295.966	294.285	286.840	277.318	269.460	265.931	264.284	265.931	269.460	277.318
70.0	258.703	256.006	247.698	241.669	235.770	231.298	230.332	231.298	235.770	241.669
72.5	219.449	212.877	212.222	205.763	200.246	197.288	196.708	197.288	200.246	205.763
75.0	183.993	182.262	177.552	171.430	169.190	165.127	165.421	165.127	169.190	171.430
77.5	151.016	148.449	144.016	139.528	137.121	134.184	134.394	134.184	137.121	139.528
80.0	117.754	115.762	112.073	110.078	107.073	105.539	104.653	105.539	107.073	110.078
82.5	85.954	84.996	83.513	81.496	80.244	79.206	81.920	79.206	80.244	81.496
85.0	55.692	54.705	52.755	52.267	51.372	50.339	48.969	50.339	51.372	52.267
87.5	29.102	27.018	25.812	24.901	23.581	23.691	23.959	23.691	23.581	24.901
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

	<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	1208.922	1208.922	1208.922	1208.922	1208.922	1208.922	1208.922	1208.922	1208.922	1208.922
2.5	1203.892	1218.682	1200.649	1218.682	1203.892	1204.560	1205.613	1203.850	1207.376	1203.850
5.0	1197.716	1212.549	1194.858	1212.549	1197.716	1197.925	1198.009	1196.287	1199.647	1196.287
7.5	1187.204	1202.296	1186.034	1202.296	1187.204	1186.243	1185.993	1183.678	1186.619	1183.678
10.0	1175.572	1194.558	1178.046	1194.558	1175.572	1171.160	1169.347	1165.486	1168.553	1165.486
12.5	1156.027	1173.049	1155.442	1173.049	1156.027	1155.902	1147.754	1143.677	1145.189	1143.677
15.0	1131.276	1149.225	1133.674	1149.225	1131.276	1131.067	1124.390	1117.413	1118.549	1117.413
17.5	1104.385	1122.961	1108.798	1122.961	1104.385	1101.152	1098.085	1086.612	1087.957	1086.612
20.0	1075.899	1094.600	1081.489	1094.600	1075.899	1068.295	1064.810	1054.474	1054.340	1054.474
22.5	1043.418	1061.109	1051.482	1061.109	1043.418	1032.873	1025.937	1018.625	1017.447	1018.625
25.0	1007.996	1029.764	1022.829	1029.764	1007.996	996.648	985.936	978.415	978.457	978.415
27.5	971.479	990.682	980.646	990.682	971.479	959.463	946.820	937.996	934.670	937.996
30.0	930.601	945.976	943.160	945.976	930.601	918.576	903.911	894.627	891.895	894.627
32.5	887.274	910.136	902.407	910.136	887.274	877.656	860.926	850.799	846.855	850.799
35.0	847.105	867.904	862.648	867.904	847.105	832.021	824.037	805.212	803.909	805.212
37.5	803.321	822.693	820.969	822.693	803.321	787.606	771.470	760.546	757.436	760.546
40.0	758.235	777.353	774.160	777.353	758.235	741.805	726.384	715.880	711.215	715.880
42.5	712.728	731.006	730.124	731.006	712.728	698.063	681.886	671.381	666.675	671.381
45.0	667.851	687.097	685.668	687.097	667.851	654.364	636.085	625.833	622.555	625.833
47.5	623.480	639.951	639.951	639.951	623.480	608.815	591.503	581.082	577.931	581.082
50.0	577.216	595.495	593.982	595.495	577.216	563.476	546.500	537.929	534.147	537.929
52.5	532.760	550.072	548.433	550.072	532.760	519.735	504.860	495.153	492.800	495.153
55.0	490.573	505.196	505.994	505.196	490.573	476.749	464.101	457.042	452.294	457.042
57.5	446.411	459.647	463.051	459.647	446.411	435.234	423.006	414.602	411.704	414.602
60.0	405.779	416.452	419.351	416.452	405.779	392.963	382.374	375.483	372.290	375.483
62.5	364.978	375.315	378.004	375.315	364.978	352.725	340.686	336.275	334.498	336.275
65.0	325.699	333.821	336.690	333.821	325.699	316.404	305.382	301.748	299.302	301.748
67.5	286.840	294.285	295.966	294.285	286.840	277.318	269.460	265.931	264.284	265.931
70.0	247.698	256.006	258.703	256.006	247.698	241.669	235.770	231.298	230.332	231.298
72.5	212.222	212.877	219.449	212.877	212.222	205.763	200.246	197.288	196.708	197.288
75.0	177.552	182.262	183.993	182.262	177.552	171.430	169.190	165.127	165.421	165.127
77.5	144.016	148.449	151.016	148.449	144.016	139.528	137.121	134.184	134.394	134.184
80.0	112.073	115.762	117.754	115.762	112.073	110.078	107.073	105.539	104.653	105.539

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CANDELA TABULATION - (Cont.)

82.5	83.513	84.996	85.954	84.996	83.513	81.496	80.244	79.206	81.920	79.206
85.0	52.755	54.705	55.692	54.705	52.755	52.267	51.372	50.339	48.969	50.339
87.5	25.812	27.018	29.102	27.018	25.812	24.901	23.581	23.691	23.959	23.691
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	1208.922	1208.922	1208.922	1208.922	1208.922
2.5	1205.613	1204.560	1203.892	1218.682	1200.649
5.0	1198.009	1197.925	1197.716	1212.549	1194.858
7.5	1185.993	1186.243	1187.204	1202.296	1186.034
10.0	1169.347	1171.160	1175.572	1194.558	1178.046
12.5	1147.754	1155.902	1156.027	1173.049	1155.442
15.0	1124.390	1131.067	1131.276	1149.225	1133.674
17.5	1098.085	1101.152	1104.385	1122.961	1108.798
20.0	1064.810	1068.295	1075.899	1094.600	1081.489
22.5	1025.937	1032.873	1043.418	1061.109	1051.482
25.0	985.936	996.648	1007.996	1029.764	1022.829
27.5	946.820	959.463	971.479	990.682	980.646

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CANDELA TABULATION - (Cont.)

30.0	903.911	918.576	930.601	945.976	943.160
32.5	860.926	877.656	887.274	910.136	902.407
35.0	824.037	832.021	847.105	867.904	862.648
37.5	771.470	787.606	803.321	822.693	820.969
40.0	726.384	741.805	758.235	777.353	774.160
42.5	681.886	698.063	712.728	731.006	730.124
45.0	636.085	654.364	667.851	687.097	685.668
47.5	591.503	608.815	623.480	639.951	639.951
50.0	546.500	563.476	577.216	595.495	593.982
52.5	504.860	519.735	532.760	550.072	548.433
55.0	464.101	476.749	490.573	505.196	505.994
57.5	423.006	435.234	446.411	459.647	463.051
60.0	382.374	392.963	405.779	416.452	419.351
62.5	340.686	352.725	364.978	375.315	378.004
65.0	305.382	316.404	325.699	333.821	336.690
67.5	269.460	277.318	286.840	294.285	295.966
70.0	235.770	241.669	247.698	256.006	258.703
72.5	200.246	205.763	212.222	212.877	219.449
75.0	169.190	171.430	177.552	182.262	183.993
77.5	137.121	139.528	144.016	148.449	151.016
80.0	107.073	110.078	112.073	115.762	117.754
82.5	80.244	81.496	83.513	84.996	85.954
85.0	51.372	52.267	52.755	54.705	55.692
87.5	23.581	24.901	25.812	27.018	29.102
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

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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

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	431.77	N.A.	6.40
0-30	891.59	N.A.	13.30
0-40	1412.75	N.A.	21.10
0-60	2345.37	N.A.	35.00
0-80	2843.17	N.A.	42.40
0-90	2902.06	N.A.	43.30
10-90	2788.34	N.A.	41.60
20-40	980.98	N.A.	14.60
20-50	1485.57	N.A.	22.10
40-70	1246.58	N.A.	18.60
60-80	497.79	N.A.	7.40
70-80	183.84	N.A.	2.70
80-90	58.89	N.A.	0.90
90-110	335.19	N.A.	5.00
90-120	760.47	N.A.	11.30
90-130	1335.64	N.A.	19.90
90-150	2685.3	N.A.	40.00
90-180	3807.37	N.A.	56.70
110-180	3472.19	N.A.	51.80
0-180	6709.43	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	113.72
10-20	318.05
20-30	459.82
30-40	521.16
40-50	504.59
50-60	428.03
60-70	313.96
70-80	183.84
80-90	58.89
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

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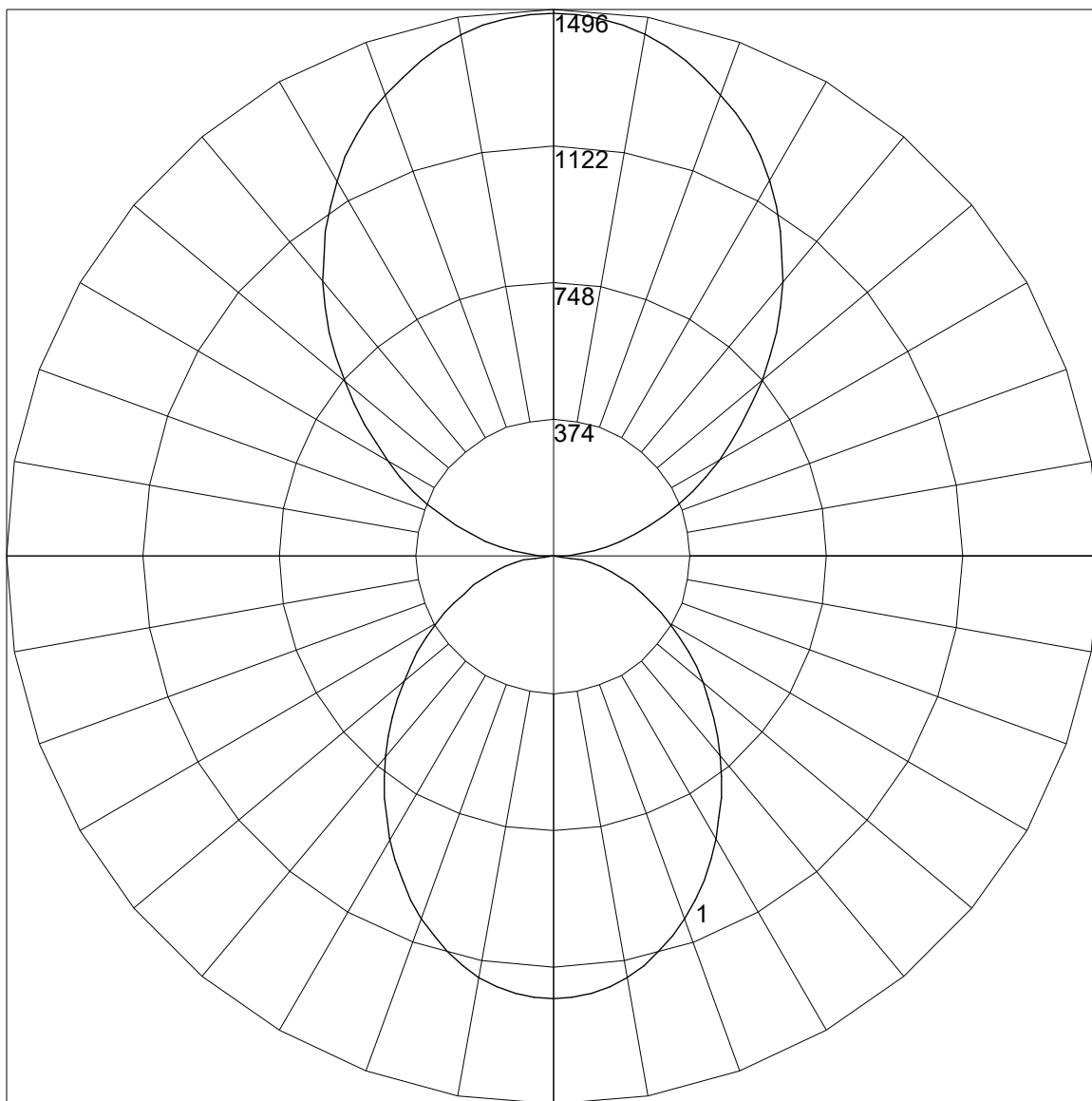
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	106	106	106	106	96	96	96	96	80	80	80	64	64	64	50	50	50	43
1	96	92	88	85	88	84	81	78	70	67	65	56	55	53	44	43	42	36
2	88	80	74	69	80	74	69	64	61	57	54	50	47	45	39	37	36	31
3	80	71	64	58	73	65	59	54	54	49	46	44	41	38	35	32	30	26
4	73	63	55	49	67	58	51	46	48	43	39	39	36	33	31	28	26	23
5	67	56	48	42	61	51	44	39	43	38	34	35	31	28	28	25	23	20
6	62	50	42	36	57	46	39	34	39	33	29	32	28	25	25	23	20	17
7	57	45	37	32	52	42	35	30	35	30	26	29	25	22	23	20	18	15
8	53	41	33	28	49	38	31	26	32	27	23	27	23	20	21	18	16	14
9	50	37	30	25	45	35	28	24	29	24	21	24	20	18	20	17	15	13
10	46	34	27	23	42	32	26	21	27	22	19	23	19	16	18	15	13	11

POLAR GRAPH



Maximum Candela = 1496.096 Located At Horizontal Angle = 15, Vertical Angle = 177.5
1 - Vertical Plane Through Horizontal Angles (90 - 270)