

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-F-F-KPL2008-50.007.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST] KPL2008-50.007 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-S-835-F-F
[LUMINAIRE] HP3 Series
[LAMPCAT] 320 LM561B+ LEDs with 80 CRI
[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 46.0 WATTS
[ABSOLUTELUMENS]6124
[LAMP] Samsung
[BALLAST] Osram
[BALLASTCAT] x2 @ 700mA

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6127
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	133
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	8370	7988	7600
55	7615	7175	6807
65	6877	6462	6113
75	6136	5717	5517
85	5516	5176	4850

CANDELA TABULATION

	0	15	30	45	60	75	90	105	120	135
0.0	966.241	966.241	966.241	966.241	966.241	966.241	966.241	966.241	966.241	966.241
2.5	959.629	974.042	962.220	962.755	963.596	962.187	965.005	962.187	963.596	962.755
5.0	955.000	969.139	957.285	957.452	957.518	956.143	958.827	956.143	957.518	957.452
7.5	947.948	960.945	948.883	948.115	947.914	946.064	948.415	946.064	947.914	948.115
10.0	941.563	954.760	939.586	936.059	934.610	931.524	933.976	931.524	934.610	936.059
12.5	923.497	937.569	923.964	923.864	917.352	914.093	915.302	914.093	917.352	923.864
15.0	906.098	918.528	904.181	904.015	898.678	893.101	894.010	893.101	898.678	904.015
17.5	886.216	897.536	882.689	880.104	877.653	868.483	869.559	868.483	877.653	880.104
20.0	864.389	874.868	859.921	853.843	851.058	842.797	842.690	842.797	851.058	853.843
22.5	840.406	848.100	833.961	825.532	819.989	814.145	813.203	814.145	819.989	825.532
25.0	817.504	823.048	805.649	796.579	788.017	782.006	782.040	782.006	788.017	796.579
27.5	783.790	791.811	776.463	766.859	756.754	749.701	747.043	749.701	756.754	766.859
30.0	753.829	756.079	743.790	734.180	722.458	715.038	712.854	715.038	722.458	734.180
32.5	721.256	727.434	709.161	701.473	688.103	680.008	676.855	680.008	688.103	701.473
35.0	689.478	693.679	677.056	664.999	658.618	643.572	642.531	643.572	658.618	664.999
37.5	656.167	657.544	642.061	629.501	616.604	607.872	605.387	607.872	616.604	629.501
40.0	618.754	621.306	606.026	592.894	580.569	572.173	568.445	572.173	580.569	592.894
42.5	583.557	584.263	569.654	557.933	545.003	536.607	532.845	536.607	545.003	557.933
45.0	548.026	549.168	533.786	523.006	508.396	500.202	497.582	500.202	508.396	523.006
47.5	511.486	511.486	498.321	486.600	472.764	464.434	461.916	464.434	472.764	486.600
50.0	474.745	475.954	461.345	450.363	436.795	429.944	426.921	429.944	436.795	450.363
52.5	438.340	439.650	425.813	415.402	403.513	395.755	393.874	395.755	403.513	415.402
55.0	404.420	403.782	392.094	381.046	370.937	365.294	361.500	365.294	370.937	381.046
57.5	370.097	367.377	356.798	347.864	338.091	331.374	329.057	331.374	338.091	347.864
60.0	335.170	332.852	324.322	314.079	305.616	300.107	297.556	300.107	305.616	314.079
62.5	302.122	299.973	291.712	281.918	272.296	268.771	267.350	268.771	272.296	281.918
65.0	269.103	266.809	260.317	252.888	244.079	241.175	239.220	241.175	244.079	252.888
67.5	236.553	235.210	229.259	221.648	215.368	212.547	211.231	212.547	215.368	221.648
70.0	206.771	204.615	197.975	193.156	188.441	184.867	184.095	184.867	188.441	193.156
72.5	175.396	170.144	169.620	164.458	160.049	157.684	157.221	157.684	160.049	164.458
75.0	147.058	145.674	141.910	137.017	135.226	131.979	132.214	131.979	135.226	137.017
77.5	120.701	118.649	115.106	111.519	109.595	107.247	107.416	107.247	109.595	111.519
80.0	94.116	92.524	89.575	87.980	85.579	84.353	83.645	84.353	85.579	87.980
82.5	68.699	67.934	66.749	65.136	64.136	63.306	65.476	63.306	64.136	65.136
85.0	44.512	43.723	42.165	41.775	41.060	40.234	39.139	40.234	41.060	41.775
87.5	23.260	21.595	20.631	19.902	18.848	18.935	19.149	18.935	18.848	19.902
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

	150	165	180	195	210	225	240	255	270	285
0.0	966.241	966.241	966.241	966.241	966.241	966.241	966.241	966.241	966.241	966.241
2.5	962.220	974.042	959.629	974.042	962.220	962.755	963.596	962.187	965.005	962.187
5.0	957.285	969.139	955.000	969.139	957.285	957.452	957.518	956.143	958.827	956.143
7.5	948.883	960.945	947.948	960.945	948.883	948.115	947.914	946.064	948.415	946.064
10.0	939.586	954.760	941.563	954.760	939.586	936.059	934.610	931.524	933.976	931.524
12.5	923.964	937.569	923.497	937.569	923.964	923.864	917.352	914.093	915.302	914.093
15.0	904.181	918.528	906.098	918.528	904.181	904.015	898.678	893.101	894.010	893.101
17.5	882.689	897.536	886.216	897.536	882.689	880.104	877.653	868.483	869.559	868.483
20.0	859.921	874.868	864.389	874.868	859.921	853.843	851.058	842.797	842.690	842.797
22.5	833.961	848.100	840.406	848.100	833.961	825.532	819.989	814.145	813.203	814.145
25.0	805.649	823.048	817.504	823.048	805.649	796.579	788.017	782.006	782.040	782.006
27.5	776.463	791.811	783.790	791.811	776.463	766.859	756.754	749.701	747.043	749.701
30.0	743.790	756.079	753.829	756.079	743.790	734.180	722.458	715.038	712.854	715.038
32.5	709.161	727.434	721.256	727.434	709.161	701.473	688.103	680.008	676.855	680.008
35.0	677.056	693.679	689.478	693.679	677.056	664.999	658.618	643.572	642.531	643.572
37.5	642.061	657.544	656.167	657.544	642.061	629.501	616.604	607.872	605.387	607.872
40.0	606.026	621.306	618.754	621.306	606.026	592.894	580.569	572.173	568.445	572.173
42.5	569.654	584.263	583.557	584.263	569.654	557.933	545.003	536.607	532.845	536.607
45.0	533.786	549.168	548.026	549.168	533.786	523.006	508.396	500.202	497.582	500.202
47.5	498.321	511.486	511.486	511.486	498.321	486.600	472.764	464.434	461.916	464.434
50.0	461.345	475.954	474.745	475.954	461.345	450.363	436.795	429.944	426.921	429.944
52.5	425.813	439.650	438.340	439.650	425.813	415.402	403.513	395.755	393.874	395.755
55.0	392.094	403.782	404.420	403.782	392.094	381.046	370.937	365.294	361.500	365.294
57.5	356.798	367.377	370.097	367.377	356.798	347.864	338.091	331.374	329.057	331.374
60.0	324.322	332.852	335.170	332.852	324.322	314.079	305.616	300.107	297.556	300.107
62.5	291.712	299.973	302.122	299.973	291.712	281.918	272.296	268.771	267.350	268.771
65.0	260.317	266.809	269.103	266.809	260.317	252.888	244.079	241.175	239.220	241.175
67.5	229.259	235.210	236.553	235.210	229.259	221.648	215.368	212.547	211.231	212.547
70.0	197.975	204.615	206.771	204.615	197.975	193.156	188.441	184.867	184.095	184.867
72.5	169.620	170.144	175.396	170.144	169.620	164.458	160.049	157.684	157.221	157.684
75.0	141.910	145.674	147.058	145.674	141.910	137.017	135.226	131.979	132.214	131.979
77.5	115.106	118.649	120.701	118.649	115.106	111.519	109.595	107.247	107.416	107.247
80.0	89.575	92.524	94.116	92.524	89.575	87.980	85.579	84.353	83.645	84.353

CANDELA TABULATION - (Cont.)

82.5	66.749	67.934	68.699	67.934	66.749	65.136	64.136	63.306	65.476	63.306
85.0	42.165	43.723	44.512	43.723	42.165	41.775	41.060	40.234	39.139	40.234
87.5	20.631	21.595	23.260	21.595	20.631	19.902	18.848	18.935	19.149	18.935
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	966.241	966.241	966.241	966.241	966.241
2.5	963.596	962.755	962.220	974.042	959.629
5.0	957.518	957.452	957.285	969.139	955.000
7.5	947.914	948.115	948.883	960.945	947.948
10.0	934.610	936.059	939.586	954.760	941.563
12.5	917.352	923.864	923.964	937.569	923.497
15.0	898.678	904.015	904.181	918.528	906.098
17.5	877.653	880.104	882.689	897.536	886.216
20.0	851.058	853.843	859.921	874.868	864.389
22.5	819.989	825.532	833.961	848.100	840.406
25.0	788.017	796.579	805.649	823.048	817.504
27.5	756.754	766.859	776.463	791.811	783.790

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP3-P-ID-4FT-H-S-835-F-F-KPL2008-50.007.IES****CANDELA TABULATION - (Cont.)**

30.0	722.458	734.180	743.790	756.079	753.829
32.5	688.103	701.473	709.161	727.434	721.256
35.0	658.618	664.999	677.056	693.679	689.478
37.5	616.604	629.501	642.061	657.544	656.167
40.0	580.569	592.894	606.026	621.306	618.754
42.5	545.003	557.933	569.654	584.263	583.557
45.0	508.396	523.006	533.786	549.168	548.026
47.5	472.764	486.600	498.321	511.486	511.486
50.0	436.795	450.363	461.345	475.954	474.745
52.5	403.513	415.402	425.813	439.650	438.340
55.0	370.937	381.046	392.094	403.782	404.420
57.5	338.091	347.864	356.798	367.377	370.097
60.0	305.616	314.079	324.322	332.852	335.170
62.5	272.296	281.918	291.712	299.973	302.122
65.0	244.079	252.888	260.317	266.809	269.103
67.5	215.368	221.648	229.259	235.210	236.553
70.0	188.441	193.156	197.975	204.615	206.771
72.5	160.049	164.458	169.620	170.144	175.396
75.0	135.226	137.017	141.910	145.674	147.058
77.5	109.595	111.519	115.106	118.649	120.701
80.0	85.579	87.980	89.575	92.524	94.116
82.5	64.136	65.136	66.749	67.934	68.699
85.0	41.060	41.775	42.165	43.723	44.512
87.5	18.848	19.902	20.631	21.595	23.260
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

IES INDOOR REPORT

PHOTOMETRIC FILENAME : HP3-P-ID-4FT-H-S-835-F-F-KPL2008-50.007.IES

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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HP3-P-ID-4FT-H-S-835-F-F-KPL2008-50.007.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	345.10	N.A.	5.60
0-30	712.61	N.A.	11.60
0-40	1129.15	N.A.	18.40
0-60	1874.56	N.A.	30.60
0-80	2272.42	N.A.	37.10
0-90	2319.58	N.A.	37.90
10-90	2228.69	N.A.	36.40
20-40	784.06	N.A.	12.80
20-50	1187.36	N.A.	19.40
40-70	996.34	N.A.	16.30
60-80	397.86	N.A.	6.50
70-80	146.93	N.A.	2.40
80-90	47.16	N.A.	0.80
90-110	335.19	N.A.	5.50
90-120	760.47	N.A.	12.40
90-130	1335.64	N.A.	21.80
90-150	2685.3	N.A.	43.80
90-180	3807.37	N.A.	62.10
110-180	3472.19	N.A.	56.70
0-180	6126.95	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

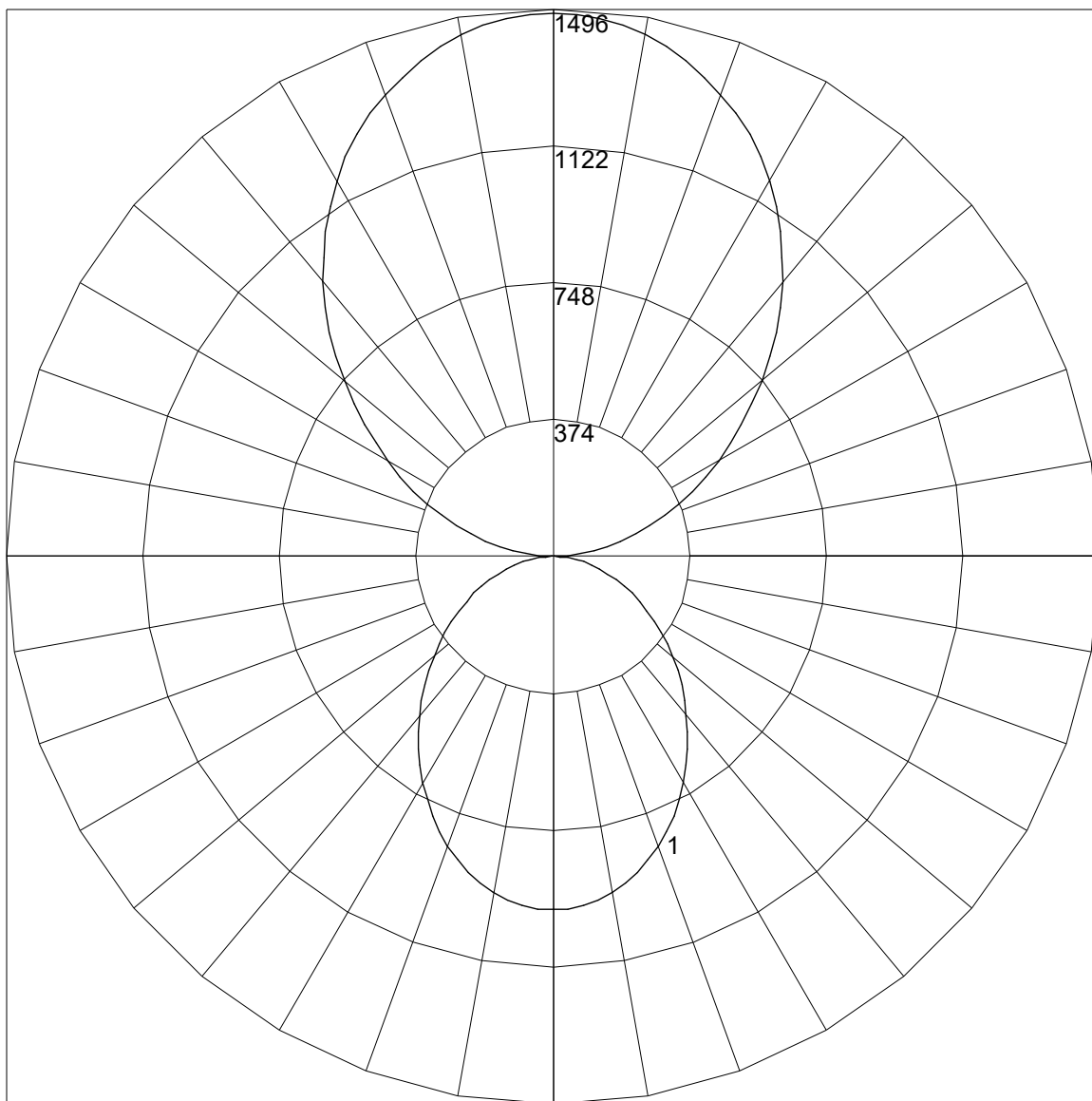
Zone	Lumens
0-10	90.89
10-20	254.20
20-30	367.51
30-40	416.54
40-50	403.30
50-60	342.11
60-70	250.93
70-80	146.93
80-90	47.16
90-100	83.84
100-110	251.35
110-120	425.28
120-130	575.17
130-140	670.32
140-150	679.35
150-160	586.24
160-170	395.91
170-180	139.92

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	95	95	95	95	77	77	77	60	60	60	45	45	45	38
1	95	91	87	84	86	83	79	76	67	65	63	53	51	50	40	39	38	32
2	87	79	73	68	78	72	67	63	59	55	52	46	44	42	35	33	32	27
3	79	70	63	57	71	64	57	53	52	48	44	41	38	35	31	29	27	23
4	72	62	54	48	65	56	50	45	46	41	37	37	33	30	28	26	24	20
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	23	21	17
6	61	49	41	36	55	45	38	33	37	32	28	30	26	23	23	20	18	15
7	56	44	37	31	51	41	34	29	34	29	25	27	23	20	21	18	16	13
8	52	40	33	28	47	37	30	26	31	26	22	25	21	18	19	17	15	12
9	49	37	29	25	44	34	27	23	28	23	20	23	19	16	18	15	13	11
10	45	34	27	22	41	31	25	21	26	21	18	21	17	15	16	14	12	10

POLAR GRAPH



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