

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HP3-P-D-4FT-S-835-DSO-120.601.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-S-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	2418
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	91
Total Luminaire Watts	26.7
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	7136	6819	5296
55	6380	6312	4809
65	5506	5614	4335
75	4613	4788	3876
85	3484	3743	3450

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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>
0.0	838.643	838.643	838.643	838.643	838.643	838.643	838.643	838.643	838.643	838.643
2.5	838.855	841.970	842.603	843.590	838.298	830.319	830.699	830.319	838.298	843.590
5.0	842.451	845.009	844.401	843.287	836.094	826.622	826.292	826.622	836.094	843.287
7.5	846.959	848.909	846.224	842.248	832.193	820.315	819.303	820.315	832.193	842.248
10.0	854.962	855.595	848.757	840.349	827.331	813.655	811.654	813.655	827.331	840.349
12.5	862.610	862.307	852.885	838.829	820.442	800.713	796.915	800.713	820.442	838.829
15.0	868.132	866.865	854.532	837.867	809.501	787.240	781.617	787.240	809.501	837.867
17.5	871.323	868.967	854.683	830.801	798.789	771.613	764.041	771.613	798.789	830.801
20.0	871.677	868.208	853.088	823.279	786.860	753.910	744.236	753.910	786.860	823.279
22.5	867.828	864.054	845.211	813.149	772.576	733.953	722.556	733.953	772.576	813.149
25.0	859.521	855.443	835.562	800.511	755.532	712.299	698.952	712.299	755.532	800.511
27.5	846.148	842.425	822.443	785.366	736.258	688.670	673.474	688.670	736.258	785.366
30.0	827.761	824.494	805.348	766.979	714.781	663.572	646.527	663.572	714.781	766.979
32.5	804.360	802.081	784.251	745.907	691.051	637.663	618.567	637.663	691.051	745.907
35.0	776.350	775.286	759.431	721.848	665.699	610.159	588.986	610.159	665.699	721.848
37.5	743.678	743.881	730.965	695.001	638.246	581.135	559.050	581.135	638.246	695.001
40.0	707.260	708.627	698.978	665.750	609.399	551.174	528.406	551.174	609.399	665.750
42.5	668.460	670.815	664.382	633.890	578.653	519.896	497.306	519.896	578.653	633.890
45.0	627.685	630.623	626.823	599.750	546.691	488.568	465.850	488.568	546.691	599.750
47.5	585.390	588.505	587.771	564.141	513.185	456.480	434.446	456.480	513.185	564.141
50.0	542.285	546.033	547.476	526.887	479.020	424.467	403.548	424.467	479.020	526.887
52.5	498.825	503.181	506.372	488.897	444.019	392.556	373.207	392.556	444.019	488.897
55.0	455.213	460.152	464.837	450.325	408.663	360.949	343.119	360.949	408.663	450.325
57.5	412.311	417.376	422.922	411.171	372.827	329.519	313.387	329.519	372.827	411.171
60.0	370.370	374.752	380.957	372.143	337.497	298.213	284.129	298.213	337.497	372.143
62.5	329.646	333.495	340.460	333.546	302.000	268.029	255.663	268.029	302.000	333.546
65.0	289.433	293.824	300.667	295.129	268.174	238.623	227.905	238.623	268.174	295.129
67.5	251.783	255.318	261.660	257.560	234.731	209.989	201.080	209.989	234.731	257.560
70.0	215.348	218.669	224.742	221.777	202.688	181.966	174.629	181.966	202.688	221.777
72.5	180.748	183.894	189.212	187.067	171.663	154.819	149.044	154.819	171.663	187.067
75.0	148.502	150.921	154.781	154.146	141.885	128.806	124.802	128.806	141.885	154.146
77.5	118.213	120.008	123.240	122.954	113.748	103.992	101.330	103.992	113.748	122.954
80.0	89.103	90.957	93.426	93.385	87.084	80.175	78.937	80.175	87.084	93.385
82.5	62.601	63.333	65.587	66.000	62.204	58.162	57.921	58.162	62.204	66.000
85.0	37.766	38.352	40.122	40.583	38.997	37.009	37.407	37.009	38.997	40.583
87.5	15.768	15.955	16.898	17.787	17.693	17.417	18.179	17.417	17.693	17.787
90.0	1.266	1.322	1.408	1.524	1.611	1.638	2.142	1.638	1.611	1.524
92.5	0.932	0.957	1.003	1.058	1.069	1.016	0.993	1.016	1.069	1.058
95.0	0.821	0.841	0.879	0.912	0.915	0.866	0.856	0.866	0.915	0.912
97.5	0.780	0.798	0.825	0.854	0.851	0.805	0.805	0.805	0.851	0.854
100.0	0.770	0.785	0.813	0.839	0.828	0.793	0.785	0.793	0.828	0.839
102.5	0.770	0.785	0.810	0.823	0.816	0.780	0.775	0.780	0.816	0.823
105.0	0.770	0.790	0.810	0.823	0.808	0.780	0.780	0.780	0.808	0.823
107.5	0.780	0.793	0.816	0.825	0.805	0.783	0.780	0.783	0.805	0.825
110.0	0.780	0.795	0.818	0.823	0.805	0.783	0.780	0.783	0.805	0.823
112.5	0.795	0.808	0.831	0.839	0.818	0.795	0.795	0.795	0.818	0.839
115.0	0.800	0.816	0.828	0.831	0.810	0.783	0.780	0.783	0.810	0.831
117.5	0.816	0.828	0.843	0.836	0.818	0.790	0.785	0.790	0.818	0.836
120.0	0.861	0.877	0.884	0.877	0.851	0.818	0.810	0.818	0.851	0.877
122.5	0.942	0.952	0.962	0.950	0.917	0.877	0.866	0.877	0.917	0.950
125.0	1.049	1.064	1.069	1.046	1.003	0.955	0.947	0.955	1.003	1.046
127.5	1.195	1.201	1.183	1.152	1.112	1.064	1.049	1.064	1.112	1.152
130.0	1.327	1.329	1.320	1.284	1.228	1.178	1.170	1.178	1.228	1.284
132.5	1.459	1.461	1.451	1.413	1.360	1.320	1.307	1.320	1.360	1.413

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CANDELA TABULATION - (Cont.)

135.0	1.611	1.611	1.598	1.558	1.509	1.477	1.474	1.477	1.509	1.558
137.5	1.768	1.773	1.750	1.714	1.676	1.644	1.641	1.644	1.676	1.714
140.0	1.930	1.930	1.909	1.869	1.829	1.818	1.818	1.818	1.829	1.869
142.5	2.082	2.087	2.061	2.026	1.991	1.981	1.996	1.981	1.991	2.026
145.0	2.218	2.218	2.191	2.165	2.142	2.140	2.153	2.140	2.142	2.165
147.5	2.350	2.343	2.328	2.302	2.284	2.284	2.310	2.284	2.284	2.302
150.0	2.462	2.462	2.444	2.426	2.416	2.424	2.447	2.424	2.416	2.426
152.5	2.563	2.565	2.558	2.545	2.545	2.555	2.583	2.555	2.545	2.545
155.0	2.669	2.664	2.662	2.657	2.662	2.672	2.700	2.672	2.662	2.657
157.5	2.760	2.760	2.760	2.763	2.768	2.778	2.821	2.778	2.768	2.763
160.0	2.867	2.857	2.859	2.864	2.867	2.882	2.923	2.882	2.867	2.864
162.5	2.938	2.930	2.950	2.950	2.953	2.966	2.999	2.966	2.953	2.950
165.0	3.014	3.019	3.031	3.031	3.034	3.047	3.069	3.047	3.034	3.031
167.5	3.105	3.112	3.120	3.118	3.112	3.128	3.150	3.128	3.112	3.118
170.0	3.166	3.201	3.201	3.191	3.194	3.204	3.221	3.204	3.194	3.191
172.5	3.232	3.267	3.260	3.249	3.255	3.262	3.277	3.262	3.255	3.249
175.0	3.308	3.331	3.318	3.302	3.305	3.310	3.323	3.310	3.305	3.302
177.5	3.394	3.366	3.348	3.338	3.343	3.343	3.353	3.343	3.343	3.338
180.0	3.374	3.374	3.374	3.374	3.374	3.374	3.374	3.374	3.374	3.374

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	838.643	838.643	838.643	838.643	838.643	838.643	838.643	838.643	838.643	838.643
2.5	842.603	841.970	838.855	841.970	842.603	843.590	838.298	830.319	830.699	830.319
5.0	844.401	845.009	842.451	845.009	844.401	843.287	836.094	826.622	826.292	826.622
7.5	846.224	848.909	846.959	848.909	846.224	842.248	832.193	820.315	819.303	820.315
10.0	848.757	855.595	854.962	855.595	848.757	840.349	827.331	813.655	811.654	813.655
12.5	852.885	862.307	862.610	862.307	852.885	838.829	820.442	800.713	796.915	800.713
15.0	854.532	866.865	868.132	866.865	854.532	837.867	809.501	787.240	781.617	787.240
17.5	854.683	868.967	871.323	868.967	854.683	830.801	798.789	771.613	764.041	771.613
20.0	853.088	868.208	871.677	868.208	853.088	823.279	786.860	753.910	744.236	753.910
22.5	845.211	864.054	867.828	864.054	845.211	813.149	772.576	733.953	722.556	733.953
25.0	835.562	855.443	859.521	855.443	835.562	800.511	755.532	712.299	698.952	712.299
27.5	822.443	842.425	846.148	842.425	822.443	785.366	736.258	688.670	673.474	688.670
30.0	805.348	824.494	827.761	824.494	805.348	766.979	714.781	663.572	646.527	663.572
32.5	784.251	802.081	804.360	802.081	784.251	745.907	691.051	637.663	618.567	637.663
35.0	759.431	775.286	776.350	775.286	759.431	721.848	665.699	610.159	588.986	610.159
37.5	730.965	743.881	743.678	743.881	730.965	695.001	638.246	581.135	559.050	581.135
40.0	698.978	708.627	707.260	708.627	698.978	665.750	609.399	551.174	528.406	551.174
42.5	664.382	670.815	668.460	670.815	664.382	633.890	578.653	519.896	497.306	519.896
45.0	626.823	630.623	627.685	630.623	626.823	599.750	546.691	488.568	465.850	488.568
47.5	587.771	588.505	585.390	588.505	587.771	564.141	513.185	456.480	434.446	456.480
50.0	547.476	546.033	542.285	546.033	547.476	526.887	479.020	424.467	403.548	424.467
52.5	506.372	503.181	498.825	503.181	506.372	488.897	444.019	392.556	373.207	392.556
55.0	464.837	460.152	455.213	460.152	464.837	450.325	408.663	360.949	343.119	360.949
57.5	422.922	417.376	412.311	417.376	422.922	411.171	372.827	329.519	313.387	329.519
60.0	380.957	374.752	370.370	374.752	380.957	372.143	337.497	298.213	284.129	298.213
62.5	340.460	333.495	329.646	333.495	340.460	333.546	302.000	268.029	255.663	268.029
65.0	300.667	293.824	289.433	293.824	300.667	295.129	268.174	238.623	227.905	238.623
67.5	261.660	255.318	251.783	255.318	261.660	257.560	234.731	209.989	201.080	209.989
70.0	224.742	218.669	215.348	218.669	224.742	221.777	202.688	181.966	174.629	181.966
72.5	189.212	183.894	180.748	183.894	189.212	187.067	171.663	154.819	149.044	154.819
75.0	154.781	150.921	148.502	150.921	154.781	154.146	141.885	128.806	124.802	128.806
77.5	123.240	120.008	118.213	120.008	123.240	122.954	113.748	103.992	101.330	103.992
80.0	93.426	90.957	89.103	90.957	93.426	93.385	87.084	80.175	78.937	80.175

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CANDELA TABULATION - (Cont.)

82.5	65.587	63.333	62.601	63.333	65.587	66.000	62.204	58.162	57.921	58.162
85.0	40.122	38.352	37.766	38.352	40.122	40.583	38.997	37.009	37.407	37.009
87.5	16.898	15.955	15.768	15.955	16.898	17.787	17.693	17.417	18.179	17.417
90.0	1.408	1.322	1.266	1.322	1.408	1.524	1.611	1.638	2.142	1.638
92.5	1.003	0.957	0.932	0.957	1.003	1.058	1.069	1.016	0.993	1.016
95.0	0.879	0.841	0.821	0.841	0.879	0.912	0.915	0.866	0.856	0.866
97.5	0.825	0.798	0.780	0.798	0.825	0.854	0.851	0.805	0.805	0.805
100.0	0.813	0.785	0.770	0.785	0.813	0.839	0.828	0.793	0.785	0.793
102.5	0.810	0.785	0.770	0.785	0.810	0.823	0.816	0.780	0.775	0.780
105.0	0.810	0.790	0.770	0.790	0.810	0.823	0.808	0.780	0.780	0.780
107.5	0.816	0.793	0.780	0.793	0.816	0.825	0.805	0.783	0.780	0.783
110.0	0.818	0.795	0.780	0.795	0.818	0.823	0.805	0.783	0.780	0.783
112.5	0.831	0.808	0.795	0.808	0.831	0.839	0.818	0.795	0.795	0.795
115.0	0.828	0.816	0.800	0.816	0.828	0.831	0.810	0.783	0.780	0.783
117.5	0.843	0.828	0.816	0.828	0.843	0.836	0.818	0.790	0.785	0.790
120.0	0.884	0.877	0.861	0.877	0.884	0.877	0.851	0.818	0.810	0.818
122.5	0.962	0.952	0.942	0.952	0.962	0.950	0.917	0.877	0.866	0.877
125.0	1.069	1.064	1.049	1.064	1.069	1.046	1.003	0.955	0.947	0.955
127.5	1.183	1.201	1.195	1.201	1.183	1.152	1.112	1.064	1.049	1.064
130.0	1.320	1.329	1.327	1.329	1.320	1.284	1.228	1.178	1.170	1.178
132.5	1.451	1.461	1.459	1.461	1.451	1.413	1.360	1.320	1.307	1.320
135.0	1.598	1.611	1.611	1.611	1.598	1.558	1.509	1.477	1.474	1.477
137.5	1.750	1.773	1.768	1.773	1.750	1.714	1.676	1.644	1.641	1.644
140.0	1.909	1.930	1.930	1.930	1.909	1.869	1.829	1.818	1.818	1.818
142.5	2.061	2.087	2.082	2.087	2.061	2.026	1.991	1.981	1.996	1.981
145.0	2.191	2.218	2.218	2.218	2.191	2.165	2.142	2.140	2.153	2.140
147.5	2.328	2.343	2.350	2.343	2.328	2.302	2.284	2.284	2.310	2.284
150.0	2.444	2.462	2.462	2.462	2.444	2.426	2.416	2.424	2.447	2.424
152.5	2.558	2.565	2.563	2.565	2.558	2.545	2.545	2.555	2.583	2.555
155.0	2.662	2.664	2.669	2.664	2.662	2.657	2.662	2.672	2.700	2.672
157.5	2.760	2.760	2.760	2.760	2.760	2.763	2.768	2.778	2.821	2.778
160.0	2.859	2.857	2.867	2.857	2.859	2.864	2.867	2.882	2.923	2.882
162.5	2.950	2.930	2.938	2.930	2.950	2.950	2.953	2.966	2.999	2.966
165.0	3.031	3.019	3.014	3.019	3.031	3.031	3.034	3.047	3.069	3.047
167.5	3.120	3.112	3.105	3.112	3.120	3.118	3.112	3.128	3.150	3.128
170.0	3.201	3.201	3.166	3.201	3.201	3.191	3.194	3.204	3.221	3.204
172.5	3.260	3.267	3.232	3.267	3.260	3.249	3.255	3.262	3.277	3.262
175.0	3.318	3.331	3.308	3.331	3.318	3.302	3.305	3.310	3.323	3.310
177.5	3.348	3.366	3.394	3.366	3.348	3.338	3.343	3.343	3.353	3.343
180.0	3.374	3.374	3.374	3.374	3.374	3.374	3.374	3.374	3.374	3.374

**Vert.
Angles**

Horizontal Angles

	<u>300</u>	<u>315</u>	<u>330</u>	<u>345</u>	<u>360</u>
0.0	838.643	838.643	838.643	838.643	838.643
2.5	838.298	843.590	842.603	841.970	838.855
5.0	836.094	843.287	844.401	845.009	842.451
7.5	832.193	842.248	846.224	848.909	846.959
10.0	827.331	840.349	848.757	855.595	854.962
12.5	820.442	838.829	852.885	862.307	862.610
15.0	809.501	837.867	854.532	866.865	868.132
17.5	798.789	830.801	854.683	868.967	871.323
20.0	786.860	823.279	853.088	868.208	871.677
22.5	772.576	813.149	845.211	864.054	867.828
25.0	755.532	800.511	835.562	855.443	859.521
27.5	736.258	785.366	822.443	842.425	846.148

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CANDELA TABULATION - (Cont.)

30.0	714.781	766.979	805.348	824.494	827.761
32.5	691.051	745.907	784.251	802.081	804.360
35.0	665.699	721.848	759.431	775.286	776.350
37.5	638.246	695.001	730.965	743.881	743.678
40.0	609.399	665.750	698.978	708.627	707.260
42.5	578.653	633.890	664.382	670.815	668.460
45.0	546.691	599.750	626.823	630.623	627.685
47.5	513.185	564.141	587.771	588.505	585.390
50.0	479.020	526.887	547.476	546.033	542.285
52.5	444.019	488.897	506.372	503.181	498.825
55.0	408.663	450.325	464.837	460.152	455.213
57.5	372.827	411.171	422.922	417.376	412.311
60.0	337.497	372.143	380.957	374.752	370.370
62.5	302.000	333.546	340.460	333.495	329.646
65.0	268.174	295.129	300.667	293.824	289.433
67.5	234.731	257.560	261.660	255.318	251.783
70.0	202.688	221.777	224.742	218.669	215.348
72.5	171.663	187.067	189.212	183.894	180.748
75.0	141.885	154.146	154.781	150.921	148.502
77.5	113.748	122.954	123.240	120.008	118.213
80.0	87.084	93.385	93.426	90.957	89.103
82.5	62.204	66.000	65.587	63.333	62.601
85.0	38.997	40.583	40.122	38.352	37.766
87.5	17.693	17.787	16.898	15.955	15.768
90.0	1.611	1.524	1.408	1.322	1.266
92.5	1.069	1.058	1.003	0.957	0.932
95.0	0.915	0.912	0.879	0.841	0.821
97.5	0.851	0.854	0.825	0.798	0.780
100.0	0.828	0.839	0.813	0.785	0.770
102.5	0.816	0.823	0.810	0.785	0.770
105.0	0.808	0.823	0.810	0.790	0.770
107.5	0.805	0.825	0.816	0.793	0.780
110.0	0.805	0.823	0.818	0.795	0.780
112.5	0.818	0.839	0.831	0.808	0.795
115.0	0.810	0.831	0.828	0.816	0.800
117.5	0.818	0.836	0.843	0.828	0.816
120.0	0.851	0.877	0.884	0.877	0.861
122.5	0.917	0.950	0.962	0.952	0.942
125.0	1.003	1.046	1.069	1.064	1.049
127.5	1.112	1.152	1.183	1.201	1.195
130.0	1.228	1.284	1.320	1.329	1.327
132.5	1.360	1.413	1.451	1.461	1.459
135.0	1.509	1.558	1.598	1.611	1.611
137.5	1.676	1.714	1.750	1.773	1.768
140.0	1.829	1.869	1.909	1.930	1.930
142.5	1.991	2.026	2.061	2.087	2.082
145.0	2.142	2.165	2.191	2.218	2.218
147.5	2.284	2.302	2.328	2.343	2.350
150.0	2.416	2.426	2.444	2.462	2.462
152.5	2.545	2.545	2.558	2.565	2.563
155.0	2.662	2.657	2.662	2.664	2.669
157.5	2.768	2.763	2.760	2.760	2.760
160.0	2.867	2.864	2.859	2.857	2.867
162.5	2.953	2.950	2.950	2.930	2.938
165.0	3.034	3.031	3.031	3.019	3.014
167.5	3.112	3.118	3.120	3.112	3.105

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HP3-P-D-4FT-S-835-DSO-120.601.IES

CANDELA TABULATION - (Cont.)

170.0	3.194	3.191	3.201	3.201	3.166
172.5	3.255	3.249	3.260	3.267	3.232
175.0	3.305	3.302	3.318	3.331	3.308
177.5	3.343	3.338	3.348	3.366	3.394
180.0	3.374	3.374	3.374	3.374	3.374

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HP3-P-D-4FT-S-835-DSO-120.601.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	314.50	N.A.	13.00
0-30	678.16	N.A.	28.00
0-40	1116.82	N.A.	46.20
0-60	1937.57	N.A.	80.10
0-80	2365.04	N.A.	97.80
0-90	2409.48	N.A.	99.60
10-90	2329.53	N.A.	96.30
20-40	802.31	N.A.	33.20
20-50	1243.98	N.A.	51.40
40-70	1094.43	N.A.	45.30
60-80	427.47	N.A.	17.70
70-80	153.79	N.A.	6.40
80-90	44.44	N.A.	1.80
90-110	1.90	N.A.	0.10
90-120	2.72	N.A.	0.10
90-130	3.64	N.A.	0.20
90-150	6.20	N.A.	0.30
90-180	8.59	N.A.	0.40
110-180	6.69	N.A.	0.30
0-180	2418.07	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	79.95
10-20	234.56
20-30	363.66
30-40	438.66
40-50	441.67
50-60	379.09
60-70	273.68
70-80	153.79
80-90	44.44
90-100	1.06
100-110	0.85
110-120	0.81
120-130	0.93
130-140	1.20
140-150	1.35
150-160	1.23
160-170	0.86
170-180	0.31

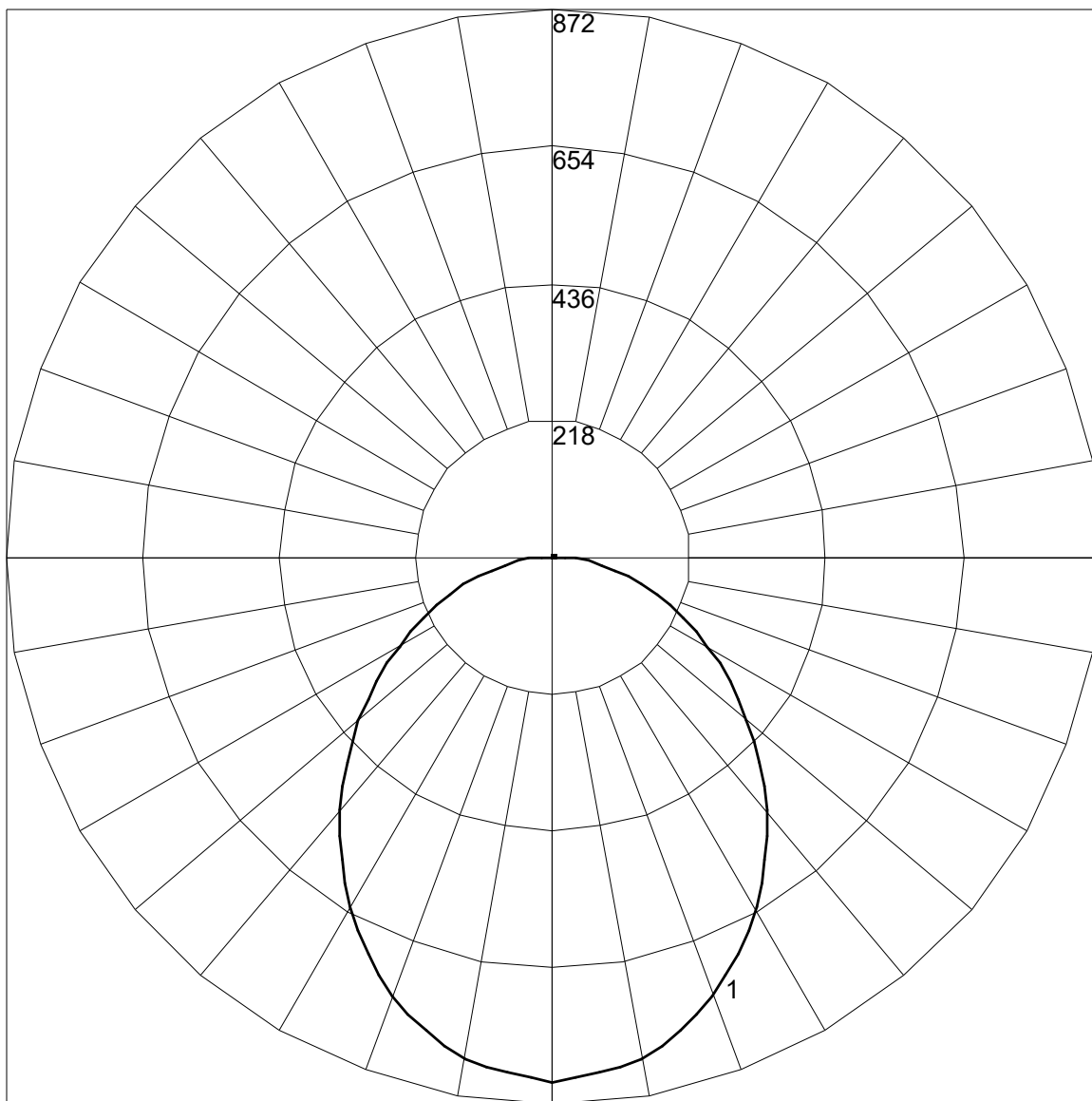
IES INDOOR REPORT
PHOTOMETRIC FILENAME : HP3-P-D-4FT-S-835-DSO-120.601.IES

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	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	69	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 = 871.677 Located At Horizontal Angle = 0, Vertical Angle = 20
1 - Vertical Plane Through Horizontal Angles (90 - 270)