

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HP3-P-D-4FT-B-835-DSO-120.602.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-B-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	3026
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	104
Total Luminaire Watts	29.2
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	8930	8533	6628
55	7984	7898	6018
65	6890	7025	5425
75	5772	5992	4851
85	4359	4684	4318

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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	1049.480	1049.480	1049.480	1049.480	1049.480	1049.480	1049.480	1049.480	1049.480	1049.480
2.5	1049.745	1053.643	1054.435	1055.671	1049.047	1039.063	1039.539	1039.063	1049.047	1055.671
5.0	1054.245	1057.446	1056.685	1055.291	1046.290	1034.437	1034.024	1034.437	1046.290	1055.291
7.5	1059.886	1062.327	1058.967	1053.991	1041.409	1026.544	1025.277	1026.544	1041.409	1053.991
10.0	1069.901	1070.693	1062.136	1051.614	1035.324	1018.210	1015.706	1018.210	1035.324	1051.614
12.5	1079.472	1079.092	1067.302	1049.713	1026.703	1002.014	997.261	1002.014	1026.703	1049.713
15.0	1086.382	1084.797	1069.363	1048.508	1013.012	985.153	978.118	985.153	1013.012	1048.508
17.5	1090.375	1087.428	1069.552	1039.666	999.606	965.599	956.122	965.599	999.606	1039.666
20.0	1090.819	1086.477	1067.556	1030.253	984.678	943.445	931.338	943.445	984.678	1030.253
22.5	1086.001	1081.279	1057.699	1017.576	966.803	918.471	904.208	918.471	966.803	1017.576
25.0	1075.606	1070.504	1045.624	1001.761	945.474	891.373	874.670	891.373	945.474	1001.761
27.5	1058.872	1054.213	1029.207	982.808	921.355	861.804	842.787	861.804	921.355	982.808
30.0	1035.862	1031.774	1007.814	959.799	894.479	830.395	809.065	830.395	894.479	959.799
32.5	1006.578	1003.726	981.414	933.430	864.782	797.973	774.076	797.973	864.782	933.430
35.0	971.525	970.194	950.354	903.322	833.057	763.554	737.058	763.554	833.057	903.322
37.5	930.641	930.894	914.731	869.726	798.702	727.233	699.597	727.233	798.702	869.726
40.0	885.066	886.777	874.702	833.121	762.603	689.741	661.248	689.741	762.603	833.121
42.5	836.512	839.460	831.409	793.251	724.128	650.599	622.329	650.599	724.128	793.251
45.0	785.486	789.163	784.408	750.528	684.131	611.394	582.966	611.394	684.131	750.528
47.5	732.558	736.456	735.537	705.967	642.201	571.240	543.666	571.240	642.201	705.967
50.0	678.616	683.307	685.113	659.347	599.446	531.179	505.000	531.179	599.446	659.347
52.5	624.231	629.682	633.675	611.807	555.646	491.245	467.032	491.245	555.646	611.807
55.0	569.655	575.835	581.698	563.538	511.402	451.692	429.380	451.692	511.402	563.538
57.5	515.967	522.305	529.246	514.540	466.556	412.361	392.173	412.361	466.556	514.540
60.0	463.482	468.965	476.730	465.701	422.344	373.185	355.560	373.185	422.344	465.701
62.5	412.519	417.337	426.053	417.400	377.923	335.413	319.937	335.413	377.923	417.400
65.0	362.197	367.692	376.256	369.325	335.593	298.614	285.201	298.614	335.593	369.325
67.5	315.082	319.506	327.442	322.311	293.742	262.781	251.632	262.781	293.742	322.311
70.0	269.488	273.643	281.243	277.532	253.645	227.713	218.531	227.713	253.645	277.532
72.5	226.188	230.125	236.780	234.096	214.820	193.741	186.515	193.741	214.820	234.096
75.0	185.836	188.863	193.693	192.898	177.555	161.189	156.178	161.189	177.555	192.898
77.5	147.932	150.178	154.223	153.865	142.344	130.136	126.805	130.136	142.344	153.865
80.0	111.503	113.823	116.913	116.862	108.977	100.331	98.782	100.331	108.977	116.862
82.5	78.339	79.256	82.076	82.592	77.842	72.784	72.483	72.784	77.842	82.592
85.0	47.261	47.993	50.209	50.785	48.801	46.313	46.811	46.313	48.801	50.785
87.5	19.732	19.967	21.146	22.258	22.141	21.795	22.750	21.795	22.141	22.258
90.0	1.585	1.654	1.762	1.908	2.016	2.050	2.681	2.050	2.016	1.908
92.5	1.166	1.198	1.255	1.325	1.337	1.271	1.242	1.271	1.337	1.325
95.0	1.027	1.052	1.100	1.141	1.144	1.084	1.071	1.084	1.144	1.141
97.5	0.976	0.998	1.033	1.068	1.065	1.008	1.008	1.008	1.065	1.068
100.0	0.964	0.983	1.017	1.049	1.036	0.992	0.983	0.992	1.036	1.049
102.5	0.964	0.983	1.014	1.030	1.021	0.976	0.970	0.976	1.021	1.030
105.0	0.964	0.989	1.014	1.030	1.011	0.976	0.976	0.976	1.011	1.030
107.5	0.976	0.992	1.021	1.033	1.008	0.979	0.976	0.979	1.008	1.033
110.0	0.976	0.995	1.023	1.030	1.008	0.979	0.976	0.979	1.008	1.030
112.5	0.995	1.011	1.040	1.049	1.023	0.995	0.995	0.995	1.023	1.049
115.0	1.002	1.021	1.036	1.040	1.014	0.979	0.976	0.979	1.014	1.040
117.5	1.021	1.036	1.055	1.046	1.023	0.989	0.983	0.989	1.023	1.046
120.0	1.078	1.097	1.106	1.097	1.065	1.023	1.014	1.023	1.065	1.097
122.5	1.179	1.191	1.204	1.189	1.147	1.097	1.084	1.097	1.147	1.189
125.0	1.312	1.331	1.337	1.309	1.255	1.195	1.185	1.195	1.255	1.309
127.5	1.496	1.503	1.480	1.442	1.391	1.331	1.312	1.331	1.391	1.442
130.0	1.661	1.664	1.651	1.607	1.537	1.474	1.465	1.474	1.537	1.607
132.5	1.825	1.829	1.816	1.768	1.702	1.651	1.635	1.651	1.702	1.768

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CANDELA TABULATION - (Cont.)

135.0	2.016	2.016	2.000	1.949	1.889	1.848	1.844	1.848	1.889	1.949
137.5	2.212	2.218	2.190	2.145	2.098	2.057	2.054	2.057	2.098	2.145
140.0	2.415	2.415	2.389	2.339	2.288	2.275	2.275	2.275	2.288	2.339
142.5	2.605	2.612	2.580	2.536	2.491	2.478	2.498	2.478	2.491	2.536
145.0	2.776	2.776	2.742	2.710	2.681	2.678	2.694	2.678	2.681	2.710
147.5	2.941	2.932	2.913	2.881	2.858	2.858	2.890	2.858	2.858	2.881
150.0	3.081	3.081	3.058	3.036	3.024	3.033	3.062	3.033	3.024	3.036
152.5	3.207	3.210	3.201	3.185	3.185	3.198	3.233	3.198	3.185	3.185
155.0	3.340	3.334	3.331	3.325	3.331	3.344	3.378	3.344	3.331	3.325
157.5	3.454	3.454	3.454	3.458	3.464	3.477	3.531	3.477	3.464	3.458
160.0	3.588	3.575	3.578	3.584	3.588	3.607	3.658	3.607	3.588	3.584
162.5	3.677	3.667	3.692	3.692	3.696	3.711	3.753	3.711	3.696	3.692
165.0	3.772	3.778	3.794	3.794	3.797	3.813	3.841	3.813	3.797	3.794
167.5	3.885	3.895	3.904	3.902	3.895	3.914	3.942	3.914	3.895	3.902
170.0	3.961	4.006	4.006	3.993	3.997	4.009	4.031	4.009	3.997	3.993
172.5	4.044	4.088	4.079	4.066	4.073	4.082	4.101	4.082	4.073	4.066
175.0	4.139	4.168	4.152	4.133	4.136	4.142	4.158	4.142	4.136	4.133
177.5	4.247	4.212	4.190	4.177	4.184	4.184	4.197	4.184	4.184	4.177
180.0	4.222	4.222	4.222	4.222	4.222	4.222	4.222	4.222	4.222	4.222

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	1049.480	1049.480	1049.480	1049.480	1049.480	1049.480	1049.480	1049.480	1049.480	1049.480
2.5	1054.435	1053.643	1049.745	1053.643	1054.435	1055.671	1049.047	1039.063	1039.539	1039.063
5.0	1056.685	1057.446	1054.245	1057.446	1056.685	1055.291	1046.290	1034.437	1034.024	1034.437
7.5	1058.967	1062.327	1059.886	1062.327	1058.967	1053.991	1041.409	1026.544	1025.277	1026.544
10.0	1062.136	1070.693	1069.901	1070.693	1062.136	1051.614	1035.324	1018.210	1015.706	1018.210
12.5	1067.302	1079.092	1079.472	1079.092	1067.302	1049.713	1026.703	1002.014	997.261	1002.014
15.0	1069.363	1084.797	1086.382	1084.797	1069.363	1048.508	1013.012	985.153	978.118	985.153
17.5	1069.552	1087.428	1090.375	1087.428	1069.552	1039.666	999.606	965.599	956.122	965.599
20.0	1067.556	1086.477	1090.819	1086.477	1067.556	1030.253	984.678	943.445	931.338	943.445
22.5	1057.699	1081.279	1086.001	1081.279	1057.699	1017.576	966.803	918.471	904.208	918.471
25.0	1045.624	1070.504	1075.606	1070.504	1045.624	1001.761	945.474	891.373	874.670	891.373
27.5	1029.207	1054.213	1058.872	1054.213	1029.207	982.808	921.355	861.804	842.787	861.804
30.0	1007.814	1031.774	1035.862	1031.774	1007.814	959.799	894.479	830.395	809.065	830.395
32.5	981.414	1003.726	1006.578	1003.726	981.414	933.430	864.782	797.973	774.076	797.973
35.0	950.354	970.194	971.525	970.194	950.354	903.322	833.057	763.554	737.058	763.554
37.5	914.731	930.894	930.641	930.894	914.731	869.726	798.702	727.233	699.597	727.233
40.0	874.702	886.777	885.066	886.777	874.702	833.121	762.603	689.741	661.248	689.741
42.5	831.409	839.460	836.512	839.460	831.409	793.251	724.128	650.599	622.329	650.599
45.0	784.408	789.163	785.486	789.163	784.408	750.528	684.131	611.394	582.966	611.394
47.5	735.537	736.456	732.558	736.456	735.537	705.967	642.201	571.240	543.666	571.240
50.0	685.113	683.307	678.616	683.307	685.113	659.347	599.446	531.179	505.000	531.179
52.5	633.675	629.682	624.231	629.682	633.675	611.807	555.646	491.245	467.032	491.245
55.0	581.698	575.835	569.655	575.835	581.698	563.538	511.402	451.692	429.380	451.692
57.5	529.246	522.305	515.967	522.305	529.246	514.540	466.556	412.361	392.173	412.361
60.0	476.730	468.965	463.482	468.965	476.730	465.701	422.344	373.185	355.560	373.185
62.5	426.053	417.337	412.519	417.337	426.053	417.400	377.923	335.413	319.937	335.413
65.0	376.256	367.692	362.197	367.692	376.256	369.325	335.593	298.614	285.201	298.614
67.5	327.442	319.506	315.082	319.506	327.442	322.311	293.742	262.781	251.632	262.781
70.0	281.243	273.643	269.488	273.643	281.243	277.532	253.645	227.713	218.531	227.713
72.5	236.780	230.125	226.188	230.125	236.780	234.096	214.820	193.741	186.515	193.741
75.0	193.693	188.863	185.836	188.863	193.693	192.898	177.555	161.189	156.178	161.189
77.5	154.223	150.178	147.932	150.178	154.223	153.865	142.344	130.136	126.805	130.136
80.0	116.913	113.823	111.503	113.823	116.913	116.862	108.977	100.331	98.782	100.331

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CANDELA TABULATION - (Cont.)

82.5	82.076	79.256	78.339	79.256	82.076	82.592	77.842	72.784	72.483	72.784
85.0	50.209	47.993	47.261	47.993	50.209	50.785	48.801	46.313	46.811	46.313
87.5	21.146	19.967	19.732	19.967	21.146	22.258	22.141	21.795	22.750	21.795
90.0	1.762	1.654	1.585	1.654	1.762	1.908	2.016	2.050	2.681	2.050
92.5	1.255	1.198	1.166	1.198	1.255	1.325	1.337	1.271	1.242	1.271
95.0	1.100	1.052	1.027	1.052	1.100	1.141	1.144	1.084	1.071	1.084
97.5	1.033	0.998	0.976	0.998	1.033	1.068	1.065	1.008	1.008	1.008
100.0	1.017	0.983	0.964	0.983	1.017	1.049	1.036	0.992	0.983	0.992
102.5	1.014	0.983	0.964	0.983	1.014	1.030	1.021	0.976	0.970	0.976
105.0	1.014	0.989	0.964	0.989	1.014	1.030	1.011	0.976	0.976	0.976
107.5	1.021	0.992	0.976	0.992	1.021	1.033	1.008	0.979	0.976	0.979
110.0	1.023	0.995	0.976	0.995	1.023	1.030	1.008	0.979	0.976	0.979
112.5	1.040	1.011	0.995	1.011	1.040	1.049	1.023	0.995	0.995	0.995
115.0	1.036	1.021	1.002	1.021	1.036	1.040	1.014	0.979	0.976	0.979
117.5	1.055	1.036	1.021	1.036	1.055	1.046	1.023	0.989	0.983	0.989
120.0	1.106	1.097	1.078	1.097	1.106	1.097	1.065	1.023	1.014	1.023
122.5	1.204	1.191	1.179	1.191	1.204	1.189	1.147	1.097	1.084	1.097
125.0	1.337	1.331	1.312	1.331	1.337	1.309	1.255	1.195	1.185	1.195
127.5	1.480	1.503	1.496	1.503	1.480	1.442	1.391	1.331	1.312	1.331
130.0	1.651	1.664	1.661	1.664	1.651	1.607	1.537	1.474	1.465	1.474
132.5	1.816	1.829	1.825	1.829	1.816	1.768	1.702	1.651	1.635	1.651
135.0	2.000	2.016	2.016	2.016	2.000	1.949	1.889	1.848	1.844	1.848
137.5	2.190	2.218	2.212	2.218	2.190	2.145	2.098	2.057	2.054	2.057
140.0	2.389	2.415	2.415	2.415	2.389	2.339	2.288	2.275	2.275	2.275
142.5	2.580	2.612	2.605	2.612	2.580	2.536	2.491	2.478	2.498	2.478
145.0	2.742	2.776	2.776	2.776	2.742	2.710	2.681	2.678	2.694	2.678
147.5	2.913	2.932	2.941	2.932	2.913	2.881	2.858	2.858	2.890	2.858
150.0	3.058	3.081	3.081	3.081	3.058	3.036	3.024	3.033	3.062	3.033
152.5	3.201	3.210	3.207	3.210	3.201	3.185	3.185	3.198	3.233	3.198
155.0	3.331	3.334	3.340	3.334	3.331	3.325	3.331	3.344	3.378	3.344
157.5	3.454	3.454	3.454	3.454	3.454	3.458	3.464	3.477	3.531	3.477
160.0	3.578	3.575	3.588	3.575	3.578	3.584	3.588	3.607	3.658	3.607
162.5	3.692	3.667	3.677	3.667	3.692	3.692	3.696	3.711	3.753	3.711
165.0	3.794	3.778	3.772	3.778	3.794	3.794	3.797	3.813	3.841	3.813
167.5	3.904	3.895	3.885	3.895	3.904	3.902	3.895	3.914	3.942	3.914
170.0	4.006	4.006	3.961	4.006	4.006	3.993	3.997	4.009	4.031	4.009
172.5	4.079	4.088	4.044	4.088	4.079	4.066	4.073	4.082	4.101	4.082
175.0	4.152	4.168	4.139	4.168	4.152	4.133	4.136	4.142	4.158	4.142
177.5	4.190	4.212	4.247	4.212	4.190	4.177	4.184	4.184	4.197	4.184
180.0	4.222	4.222	4.222	4.222	4.222	4.222	4.222	4.222	4.222	4.222

**Vert.
Angles**

Horizontal Angles

	<u>300</u>	<u>315</u>	<u>330</u>	<u>345</u>	<u>360</u>
0.0	1049.480	1049.480	1049.480	1049.480	1049.480
2.5	1049.047	1055.671	1054.435	1053.643	1049.745
5.0	1046.290	1055.291	1056.685	1057.446	1054.245
7.5	1041.409	1053.991	1058.967	1062.327	1059.886
10.0	1035.324	1051.614	1062.136	1070.693	1069.901
12.5	1026.703	1049.713	1067.302	1079.092	1079.472
15.0	1013.012	1048.508	1069.363	1084.797	1086.382
17.5	999.606	1039.666	1069.552	1087.428	1090.375
20.0	984.678	1030.253	1067.556	1086.477	1090.819
22.5	966.803	1017.576	1057.699	1081.279	1086.001
25.0	945.474	1001.761	1045.624	1070.504	1075.606
27.5	921.355	982.808	1029.207	1054.213	1058.872

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

30.0	894.479	959.799	1007.814	1031.774	1035.862
32.5	864.782	933.430	981.414	1003.726	1006.578
35.0	833.057	903.322	950.354	970.194	971.525
37.5	798.702	869.726	914.731	930.894	930.641
40.0	762.603	833.121	874.702	886.777	885.066
42.5	724.128	793.251	831.409	839.460	836.512
45.0	684.131	750.528	784.408	789.163	785.486
47.5	642.201	705.967	735.537	736.456	732.558
50.0	599.446	659.347	685.113	683.307	678.616
52.5	555.646	611.807	633.675	629.682	624.231
55.0	511.402	563.538	581.698	575.835	569.655
57.5	466.556	514.540	529.246	522.305	515.967
60.0	422.344	465.701	476.730	468.965	463.482
62.5	377.923	417.400	426.053	417.337	412.519
65.0	335.593	369.325	376.256	367.692	362.197
67.5	293.742	322.311	327.442	319.506	315.082
70.0	253.645	277.532	281.243	273.643	269.488
72.5	214.820	234.096	236.780	230.125	226.188
75.0	177.555	192.898	193.693	188.863	185.836
77.5	142.344	153.865	154.223	150.178	147.932
80.0	108.977	116.862	116.913	113.823	111.503
82.5	77.842	82.592	82.076	79.256	78.339
85.0	48.801	50.785	50.209	47.993	47.261
87.5	22.141	22.258	21.146	19.967	19.732
90.0	2.016	1.908	1.762	1.654	1.585
92.5	1.337	1.325	1.255	1.198	1.166
95.0	1.144	1.141	1.100	1.052	1.027
97.5	1.065	1.068	1.033	0.998	0.976
100.0	1.036	1.049	1.017	0.983	0.964
102.5	1.021	1.030	1.014	0.983	0.964
105.0	1.011	1.030	1.014	0.989	0.964
107.5	1.008	1.033	1.021	0.992	0.976
110.0	1.008	1.030	1.023	0.995	0.976
112.5	1.023	1.049	1.040	1.011	0.995
115.0	1.014	1.040	1.036	1.021	1.002
117.5	1.023	1.046	1.055	1.036	1.021
120.0	1.065	1.097	1.106	1.097	1.078
122.5	1.147	1.189	1.204	1.191	1.179
125.0	1.255	1.309	1.337	1.331	1.312
127.5	1.391	1.442	1.480	1.503	1.496
130.0	1.537	1.607	1.651	1.664	1.661
132.5	1.702	1.768	1.816	1.829	1.825
135.0	1.889	1.949	2.000	2.016	2.016
137.5	2.098	2.145	2.190	2.218	2.212
140.0	2.288	2.339	2.389	2.415	2.415
142.5	2.491	2.536	2.580	2.612	2.605
145.0	2.681	2.710	2.742	2.776	2.776
147.5	2.858	2.881	2.913	2.932	2.941
150.0	3.024	3.036	3.058	3.081	3.081
152.5	3.185	3.185	3.201	3.210	3.207
155.0	3.331	3.325	3.331	3.334	3.340
157.5	3.464	3.458	3.454	3.454	3.454
160.0	3.588	3.584	3.578	3.575	3.588
162.5	3.696	3.692	3.692	3.667	3.677
165.0	3.797	3.794	3.794	3.778	3.772
167.5	3.895	3.902	3.904	3.895	3.885

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

170.0	3.997	3.993	4.006	4.006	3.961
172.5	4.073	4.066	4.079	4.088	4.044
175.0	4.136	4.133	4.152	4.168	4.139
177.5	4.184	4.177	4.190	4.212	4.247
180.0	4.222	4.222	4.222	4.222	4.222

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HP3-P-D-4FT-B-835-DSO-120.602.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	393.57	N.A.	13.00
0-30	848.65	N.A.	28.00
0-40	1397.59	N.A.	46.20
0-60	2424.68	N.A.	80.10
0-80	2959.62	N.A.	97.80
0-90	3015.23	N.A.	99.60
10-90	2915.18	N.A.	96.30
20-40	1004.02	N.A.	33.20
20-50	1556.72	N.A.	51.40
40-70	1369.58	N.A.	45.30
60-80	534.94	N.A.	17.70
70-80	192.45	N.A.	6.40
80-90	55.61	N.A.	1.80
90-110	2.38	N.A.	0.10
90-120	3.40	N.A.	0.10
90-130	4.56	N.A.	0.20
90-150	7.75	N.A.	0.30
90-180	10.75	N.A.	0.40
110-180	8.37	N.A.	0.30
0-180	3025.98	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	100.05
10-20	293.52
20-30	455.08
30-40	548.93
40-50	552.70
50-60	474.39
60-70	342.49
70-80	192.45
80-90	55.61
90-100	1.32
100-110	1.06
110-120	1.02
120-130	1.16
130-140	1.50
140-150	1.70
150-160	1.53
160-170	1.07
170-180	0.39

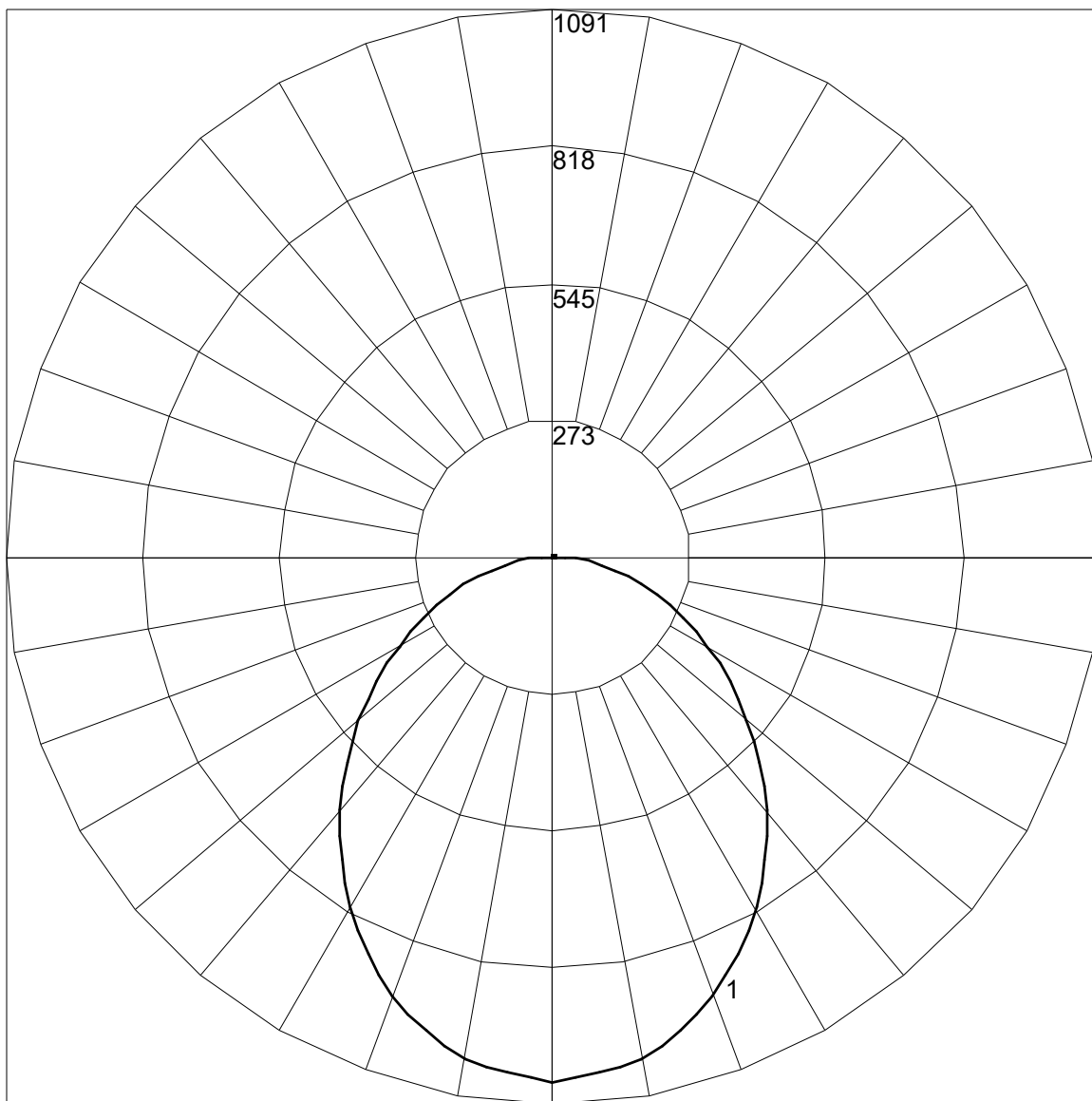
IES INDOOR REPORT
PHOTOMETRIC FILENAME : HP3-P-D-4FT-B-835-DSO-120.602.IES

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 = 1090.819 Located At Horizontal Angle = 0, Vertical Angle = 20
1 - Vertical Plane Through Horizontal Angles (90 - 270)