

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 7588 IES.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-1995
[TEST]
[DATE] 2020/8/5
[MANUFAC]
[LUMCAT]
[LUMINAIRE]
[LAMPCAT]
[LAMP]

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2061
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	70
Total Luminaire Watts	29.633
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.60
Spacing Criterion (90-270)	0.60
Spacing Criterion (Diagonal)	0.60
Basic Luminous Shape	Sphere
Luminous Length (0-180)	0.00 m (Diameter)
Luminous Width (90-270)	0.00 m (Diameter)
Luminous Height	0.00 m (Diameter)

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	1.28143E+08	1.284128E+08	1.348068E+08
55	7.150023E+07	7.213149E+07	7.60934E+07
65	4.43052E+07	4.466537E+07	4.65566E+07
75	2.422328E+07	2.422328E+07	2.458345E+07
85	3422288	3422288	3601738

CANDELA TABULATION

	<u>0</u>	<u>5</u>	<u>10</u>	<u>15</u>	<u>20</u>	<u>25</u>	<u>30</u>	<u>35</u>	<u>40</u>	<u>45</u>
0	4474.465	4474.465	4474.465	4474.465	4474.465	4474.465	4474.465	4474.465	4474.465	4474.465
5	4170.359	4171.066	4169.651	4169.651	4151.962	4142.764	4156.208	4149.132	4161.868	4140.641
10	3669.406	3662.331	3658.793	3637.566	3619.877	3627.660	3626.952	3604.311	3614.216	3600.773
15	2848.636	2839.438	2840.853	2845.806	2835.900	2838.023	2821.749	2811.136	2794.154	2767.267
20	1776.683	1758.286	1752.626	1749.796	1744.843	1738.475	1744.135	1740.598	1736.352	1731.399
25	873.837	863.931	857.563	851.902	850.487	853.317	856.855	853.317	850.487	851.195
30	448.593	445.055	437.980	435.149	433.027	430.197	433.027	436.565	434.442	432.319
35	253.873	250.264	246.372	244.604	243.471	244.533	246.089	248.283	248.707	244.250
40	151.630	150.074	147.809	147.597	146.748	147.385	147.597	149.012	149.720	149.649
45	100.686	99.483	98.775	98.209	97.926	98.209	98.917	99.695	100.261	100.898
50	73.515	72.383	72.383	71.605	72.030	71.676	72.030	72.666	72.879	73.586
55	56.180	55.685	55.190	55.048	54.765	55.048	55.473	55.756	56.251	56.676
60	44.718	44.010	43.515	43.798	43.727	43.656	44.010	44.364	44.364	44.789
65	34.812	34.458	34.458	34.317	34.246	34.317	34.387	34.529	34.812	35.095
70	26.887	26.887	26.746	26.675	26.604	26.392	26.534	26.604	26.817	26.958
75	19.033	18.892	18.821	18.821	18.750	18.750	18.750	18.821	18.963	19.033
80	10.330	10.260	10.189	10.189	10.189	10.118	10.189	10.118	10.118	10.189
85	2.689	2.689	2.759	2.689	2.759	2.689	2.759	2.759	2.759	2.689
90	0.071	0.071	0.071	0.000	0.071	0.071	0.000	0.142	0.000	0.071

Vert. Horizontal Angles
 Angles

	<u>50</u>	<u>55</u>	<u>60</u>	<u>65</u>	<u>70</u>	<u>75</u>	<u>80</u>	<u>85</u>	<u>90</u>	<u>95</u>
0	4474.465	4474.465	4474.465	4474.465	4474.465	4474.465	4474.465	4474.465	4474.465	4474.465
5	4144.886	4142.056	4152.669	4168.236	4142.764	4169.651	4171.773	4179.557	4190.878	4200.076
10	3589.452	3579.546	3792.522	4226.256	3733.794	3556.197	3557.612	3587.329	3600.065	3612.801
15	2766.560	2749.578	2746.748	2750.993	2750.993	2754.531	2762.314	2771.512	2784.249	2811.136
20	1724.324	1722.909	1718.663	1710.880	1715.125	1722.201	1732.814	1748.381	1739.890	1745.551
25	842.704	837.751	839.874	844.119	849.780	856.855	854.025	849.780	852.610	850.487
30	428.781	430.197	429.489	434.442	436.565	435.149	433.734	433.734	432.319	433.734
35	243.047	242.410	243.825	245.240	245.877	245.240	244.887	245.453	245.806	248.778
40	149.861	150.993	152.055	153.116	153.682	152.833	153.328	153.682	155.805	156.583
45	101.818	102.879	103.445	104.507	104.790	104.790	105.143	105.922	105.922	106.134
50	74.011	75.072	75.426	75.850	76.487	76.629	76.841	77.336	78.256	78.468
55	56.959	57.454	58.091	58.586	59.294	59.294	59.435	59.789	59.789	59.930
60	45.142	45.425	45.638	46.062	46.133	46.557	46.557	46.770	46.982	47.124
65	35.520	35.590	35.873	36.015	36.227	36.227	36.439	36.510	36.581	36.722
70	27.170	27.383	27.453	27.666	27.736	27.878	27.949	28.019	28.019	27.949
75	18.963	19.104	19.175	19.316	19.316	19.458	19.387	19.458	19.316	19.458
80	10.189	10.189	10.118	10.189	10.189	10.260	10.260	10.330	10.330	10.472
85	2.759	2.689	2.618	2.759	2.689	2.689	2.759	2.830	2.830	2.901
90	0.071	0.071	0.071	0.071	0.000	0.071	0.142	0.071	0.071	0.000

Vert. Horizontal Angles
 Angles

	<u>100</u>	<u>105</u>	<u>110</u>	<u>115</u>	<u>120</u>	<u>125</u>	<u>130</u>	<u>135</u>	<u>140</u>	<u>145</u>
0	4474.465	4474.465	4474.465	4474.465	4474.465	4474.465	4474.465	4474.465	4474.465	4474.465
5	4202.199	4219.180	4231.917	4224.133	4238.284	4245.360	4268.709	4287.813	4304.087	4289.229
10	3621.292	3646.764	3655.962	3677.897	3690.633	3697.001	3707.614	3741.577	3755.729	3748.653
15	2810.428	2824.580	2839.438	2848.636	2876.231	2891.798	2907.364	2924.345	2950.525	2971.752
20	1755.456	1762.532	1766.070	1783.051	1800.740	1816.306	1836.826	1848.147	1876.449	1901.214
25	851.902	855.440	862.516	875.252	892.233	909.215	919.121	930.442	943.177	958.744
30	434.442	433.027	440.102	444.348	448.593	459.206	460.622	467.697	475.480	486.801
35	251.750	252.882	253.731	255.429	256.561	256.844	260.170	265.477	269.439	271.420
40	157.220	157.432	157.078	157.857	159.555	160.828	161.961	163.729	165.215	167.196
45	106.559	107.125	107.408	108.540	109.601	110.167	110.379	111.299	111.653	112.856
50	78.185	78.751	78.610	78.256	79.034	79.600	79.671	80.167	81.016	81.369
55	60.072	60.143	60.355	60.496	60.567	60.567	60.638	61.275	61.487	61.841
60	47.265	47.477	47.124	47.053	47.194	47.619	47.760	47.831	47.973	48.326

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 7588 IES.IES

CANDELA TABULATION - (Cont.)

65	36.722	36.722	36.864	36.722	36.935	37.076	37.218	37.430	37.642	37.713
70	28.232	28.302	28.090	28.302	28.302	28.444	28.585	28.656	28.798	29.010
75	19.529	19.458	19.670	19.529	19.741	19.741	19.882	20.024	19.882	20.307
80	10.472	10.543	10.613	10.613	10.684	10.755	10.896	10.896	10.967	10.967
85	2.901	2.901	2.901	2.830	2.972	2.972	2.972	2.972	2.972	3.043
90	0.071	0.000	0.071	0.071	0.071	0.071	0.071	0.000	0.071	0.071

Vert. Angles **Horizontal Angles**

	<u>150</u>	<u>155</u>	<u>160</u>	<u>165</u>	<u>170</u>	<u>175</u>	<u>180</u>	<u>185</u>	<u>190</u>	<u>195</u>
0	4474.465	4474.465	4474.465	4474.465	4474.465	4474.465	4474.465	4474.465	4474.465	4474.465
5	4301.257	4321.776	4333.098	4352.202	4362.107	4361.400	4368.475	4362.107	4371.306	4372.013
10	3764.219	3786.861	3803.843	3820.824	3832.852	3851.249	3861.863	3876.721	3885.212	3903.609
15	2994.394	3017.743	3037.555	3065.858	3080.009	3101.235	3096.282	3105.481	3126.000	3145.812
20	1921.025	1950.743	1976.215	1996.027	2027.867	2047.679	2076.688	2084.472	2095.793	2101.453
25	979.263	989.169	1014.641	1032.330	1050.019	1069.831	1083.274	1100.256	1111.577	1122.190
30	494.584	505.905	510.151	515.104	525.010	529.255	539.868	548.359	552.604	556.142
35	278.213	282.316	285.996	288.897	291.444	294.840	298.095	303.543	308.072	309.770
40	169.461	171.371	173.352	176.890	178.164	180.074	180.357	181.701	183.753	183.824
45	114.129	115.191	115.898	116.535	117.030	118.092	119.224	119.224	119.578	119.790
50	82.431	82.785	83.068	83.704	83.846	84.341	85.332	85.261	85.473	85.615
55	62.619	62.831	63.044	63.256	63.610	63.893	64.529	64.529	64.883	64.813
60	48.539	48.680	49.175	49.388	49.741	49.883	50.237	50.308	50.449	50.591
65	38.067	38.067	38.350	38.845	38.845	39.128	39.199	39.411	39.340	39.411
70	29.081	29.151	29.222	29.505	29.788	30.213	30.071	30.071	30.284	30.213
75	20.448	20.307	20.378	20.590	20.661	20.873	21.085	21.015	21.015	20.944
80	11.179	11.109	11.179	11.392	11.462	11.462	11.462	11.604	11.604	11.675
85	3.043	3.043	3.043	3.043	3.184	3.184	3.113	3.113	3.113	3.113
90	0.071	0.071	0.071	0.071	0.071	0.000	0.071	0.071	0.142	0.071

Vert. Angles **Horizontal Angles**

	<u>200</u>	<u>205</u>	<u>210</u>	<u>215</u>	<u>220</u>	<u>225</u>	<u>230</u>	<u>235</u>	<u>240</u>	<u>245</u>
0	4474.465	4474.465	4474.465	4474.465	4474.465	4474.465	4474.465	4474.465	4474.465	4474.465
5	4380.504	4376.258	4383.334	4381.919	4383.334	4385.457	4396.778	4379.796	4385.457	4380.504
10	3905.731	3915.637	3914.222	3924.128	3932.618	3929.788	3936.156	3924.128	3926.250	3929.081
15	3151.472	3159.963	3174.114	3167.038	3174.114	3165.623	3157.840	3157.840	3157.840	3157.133
20	2095.085	2100.038	2101.453	2105.698	2102.161	2106.406	2100.746	2080.226	2059.707	2037.773
25	1124.313	1129.266	1123.605	1117.945	1112.284	1109.454	1092.473	1072.661	1059.217	1036.575
30	556.142	551.897	547.651	546.944	546.236	542.699	532.793	525.010	516.519	508.028
35	312.034	308.638	304.109	299.510	297.175	295.053	292.010	287.128	281.680	280.689
40	184.178	182.551	181.772	180.923	178.659	177.315	175.758	173.423	170.593	168.965
45	119.436	118.870	118.163	117.172	117.243	116.889	114.979	114.412	112.644	111.299
50	85.544	85.190	84.270	84.058	83.492	82.502	82.218	81.511	80.662	80.520
55	65.025	64.246	64.105	63.610	63.751	63.185	62.619	62.478	62.053	61.204
60	50.449	50.237	50.166	50.024	49.671	49.388	49.175	48.822	48.751	48.539
65	39.411	39.270	39.128	38.916	38.987	38.987	38.704	38.421	38.350	37.996
70	30.213	30.142	30.001	30.001	30.071	29.930	29.718	29.718	29.647	29.364
75	21.227	21.015	21.156	21.085	21.156	21.227	21.085	21.015	20.944	20.802
80	11.675	11.675	11.675	11.675	11.675	11.675	11.746	11.746	11.746	11.746
85	3.255	3.184	3.184	3.255	3.184	3.255	3.255	3.255	3.255	3.255
90	0.142	0.071	0.000	0.071	0.000	0.000	0.000	0.000	0.000	0.000

Vert. Angles **Horizontal Angles**

	<u>250</u>	<u>255</u>	<u>260</u>	<u>265</u>	<u>270</u>	<u>275</u>	<u>280</u>	<u>285</u>	<u>290</u>	<u>295</u>
0	4474.465	4474.465	4474.465	4474.465	4474.465	4474.465	4474.465	4474.465	4474.465	4474.465
5	4391.117	4375.551	4364.230	4372.721	4355.032	4335.220	4330.267	4328.852	4315.408	4300.550
10	3909.269	3902.901	3885.920	3893.702	3889.458	3863.985	3861.863	3854.079	3849.834	3834.975
15	3144.396	3135.198	3111.141	3105.481	3096.990	3081.424	3056.659	3031.895	3018.451	3013.498
20	2015.131	1997.442	1971.262	1954.988	1952.158	1930.931	1919.610	1906.167	1907.582	1897.676

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 7588 IES.IES

CANDELA TABULATION - (Cont.)

25	1023.839	1008.981	994.829	994.829	987.046	986.339	982.801	974.310	973.603	967.942
30	503.075	497.415	498.122	493.877	493.169	493.877	493.169	492.462	491.754	498.830
35	277.647	277.010	276.231	275.878	275.312	275.665	276.939	278.425	283.378	287.552
40	168.753	168.046	168.258	167.267	167.975	168.965	171.230	171.796	174.343	174.980
45	111.299	111.158	111.228	111.512	112.573	113.422	114.696	114.696	115.615	116.111
50	80.591	80.025	80.096	81.086	81.299	82.289	83.138	83.704	84.412	84.624
55	61.133	61.487	61.204	61.558	61.982	62.548	62.973	63.539	64.317	64.317
60	48.468	48.256	48.326	48.468	48.680	49.105	49.388	49.954	49.954	50.095
65	37.996	37.996	37.996	38.067	38.279	38.208	38.633	38.845	38.987	39.057
70	29.364	29.364	29.364	29.293	29.293	29.647	29.435	29.505	29.788	29.576
75	20.732	20.732	20.661	20.732	20.661	20.661	20.732	20.661	20.732	20.519
80	11.746	11.604	11.675	11.533	11.462	11.462	11.392	11.321	11.179	11.179
85	3.255	3.255	3.184	3.184	3.255	3.255	3.184	3.184	3.043	3.043
90	0.000	0.000	0.000	0.000	0.000	0.071	0.071	0.000	0.142	0.071

Vert. Angles **Horizontal Angles**

	<u>300</u>	<u>305</u>	<u>310</u>	<u>315</u>	<u>320</u>	<u>325</u>	<u>330</u>	<u>335</u>	<u>340</u>	<u>345</u>
0	4474.465	4474.465	4474.465	4474.465	4474.465	4474.465	4474.465	4474.465	4474.465	4474.465
5	4294.889	4278.615	4258.096	4255.973	4238.284	4233.332	4222.011	4211.397	4199.369	4194.416
10	3820.116	3803.135	3783.323	3779.785	3747.945	3742.992	3745.115	3727.426	3712.567	3698.416
15	3000.054	2987.318	2973.167	2959.016	2934.959	2925.761	2911.609	2903.826	2898.873	2889.675
20	1883.525	1885.647	1877.157	1866.543	1865.836	1853.807	1846.732	1830.458	1816.306	1806.401
25	965.112	960.867	953.083	944.593	939.640	929.734	923.366	919.828	907.800	904.969
30	497.415	497.415	496.000	493.169	493.877	489.632	483.264	472.650	466.990	463.452
35	288.189	288.543	288.472	287.977	285.642	281.750	277.576	272.057	266.609	262.859
40	175.121	175.192	173.777	172.220	171.866	170.947	169.248	166.913	163.942	161.536
45	116.040	116.111	115.474	115.049	113.776	113.634	112.290	110.662	108.752	106.912
50	84.907	84.695	84.624	84.553	83.492	82.714	81.228	79.671	78.681	76.983
55	64.600	64.388	63.822	63.539	63.468	62.761	62.407	61.558	60.355	59.577
60	50.237	50.095	50.095	49.741	49.175	48.963	48.822	47.973	47.265	46.345
65	39.057	38.633	38.350	38.350	38.208	37.996	37.713	37.076	36.510	36.156
70	29.364	29.293	29.222	29.010	28.727	28.727	28.656	28.373	28.161	27.666
75	20.519	20.307	20.378	20.165	20.024	19.882	19.882	19.670	19.670	19.599
80	11.038	10.896	10.826	10.755	10.613	10.613	10.543	10.472	10.472	10.330
85	3.043	3.113	2.972	2.901	2.901	2.830	2.901	2.830	2.830	2.830
90	0.142	0.212	0.142	0.071	0.142	0.142	0.071	0.142	0.142	0.142

Vert. Angles **Horizontal Angles**

	<u>350</u>	<u>355</u>	<u>360</u>
0	4474.465	4474.465	4474.465
5	4190.878	4173.188	4170.359
10	3673.651	3694.171	3669.406
15	2878.354	2870.571	2848.636
20	1802.155	1784.466	1776.683
25	894.356	875.959	873.837
30	456.376	451.423	448.593
35	258.967	255.641	253.873
40	157.361	154.531	151.630
45	105.285	102.879	100.686
50	75.709	74.294	73.515
55	58.374	57.525	56.180
60	45.921	45.142	44.718
65	35.803	35.166	34.812
70	27.453	27.170	26.887
75	19.316	19.175	19.033
80	10.472	10.401	10.330
85	2.759	2.689	2.689
90	0.142	0.071	0.071

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PHOTOMETRIC FILENAME : 7588 IES.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1190.32	N.A.	57.80
0-30	1669.19	N.A.	81.00
0-40	1852.67	N.A.	89.90
0-60	1997.85	N.A.	96.90
0-80	2056.25	N.A.	99.80
0-90	2060.85	N.A.	100.00
10-90	1668.8	N.A.	81.00
20-40	662.35	N.A.	32.10
20-50	751.77	N.A.	36.50
40-70	182.58	N.A.	8.90
60-80	58.40	N.A.	2.80
70-80	21.00	N.A.	1.00
80-90	4.60	N.A.	0.20
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	2060.85	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	392.05
10-20	798.27
20-30	478.87
30-40	183.48
40-50	89.42
50-60	55.76
60-70	37.40
70-80	21.00
80-90	4.60
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

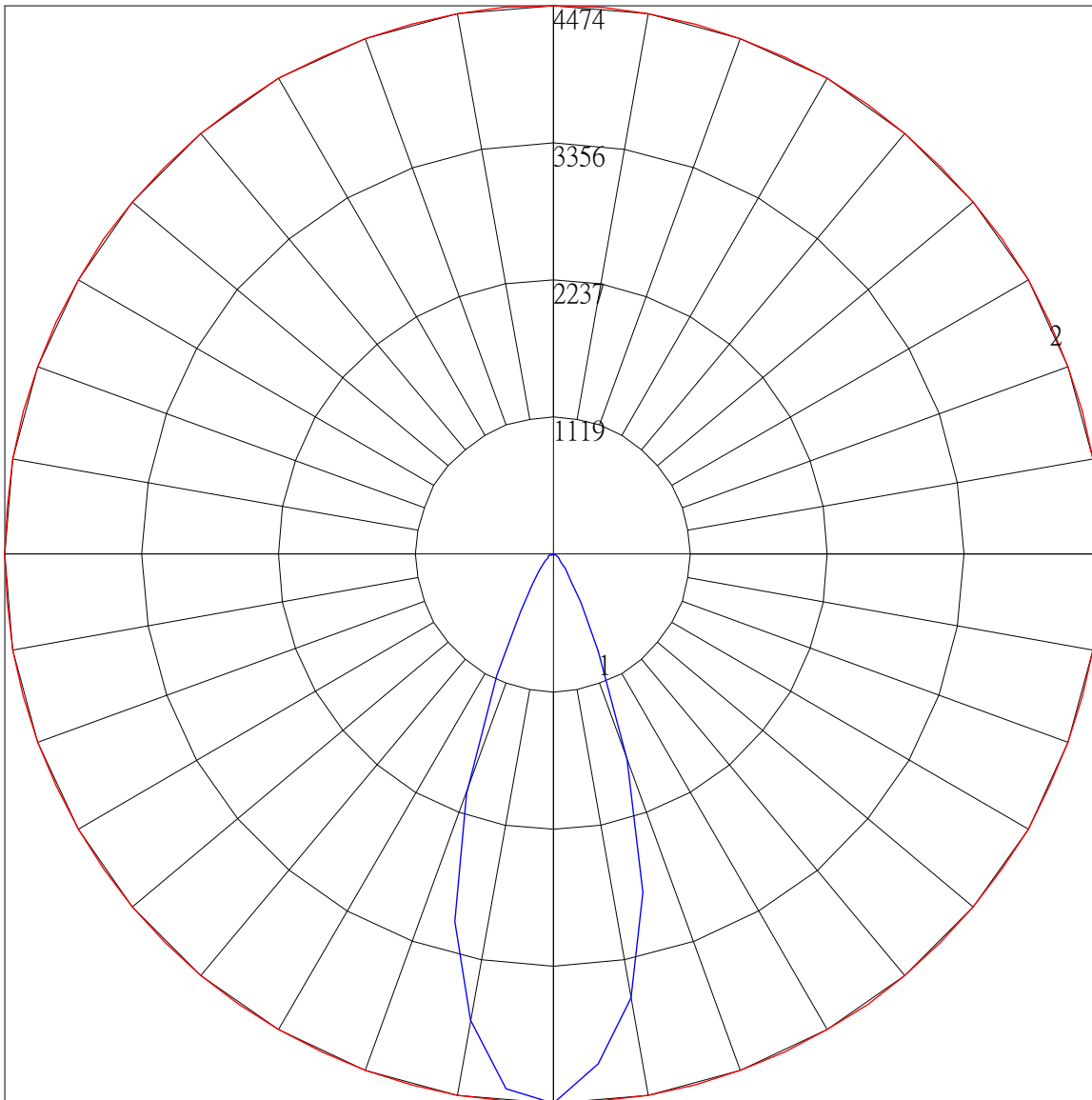
IES INDOOR REPORT
PHOTOMETRIC FILENAME : 7588 IES.IES

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

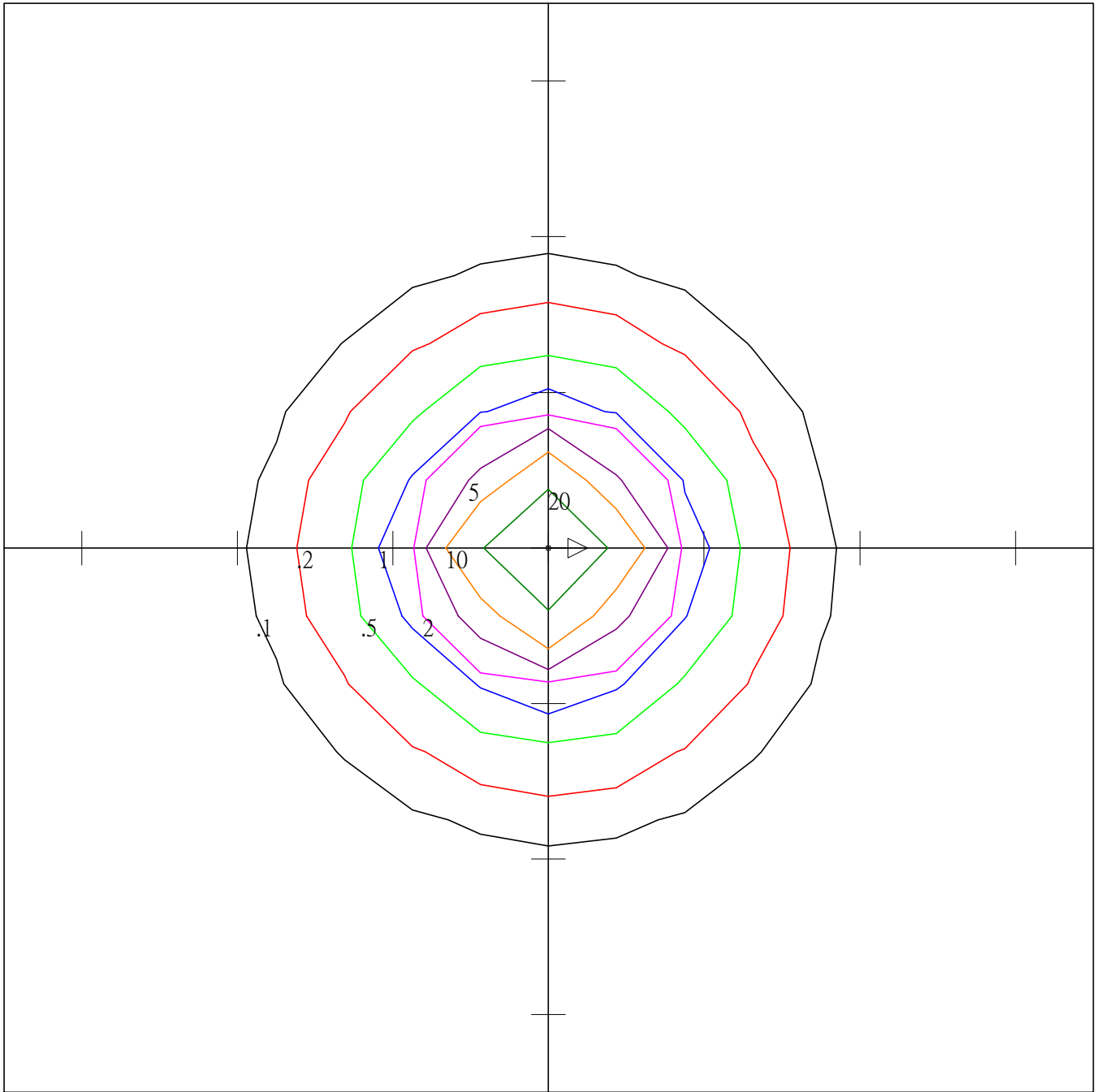
Effective Floor Cavity Reflectance 0.20

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	100
1	114	111	109	106	111	109	107	105	105	103	101	101	100	98	98	97	96	94	94
2	108	104	100	97	106	102	99	96	99	96	94	96	94	92	93	91	90	88	88
3	104	98	93	89	102	96	92	88	94	90	87	91	88	86	89	86	84	83	83
4	99	92	87	83	97	91	86	83	89	85	82	87	83	81	85	82	80	78	78
5	95	87	82	78	93	86	81	78	85	80	77	83	79	76	81	78	76	74	74
6	91	83	77	74	90	82	77	73	81	76	73	79	75	72	78	75	72	70	70
7	87	79	73	70	86	78	73	70	77	72	69	76	72	69	75	71	68	67	67
8	84	75	70	66	83	75	70	66	74	69	66	73	69	66	72	68	65	64	64
9	81	72	67	63	80	72	67	63	71	66	63	70	66	63	69	65	63	61	61
10	78	69	64	61	77	69	64	61	68	63	60	67	63	60	67	63	60	59	59

POLAR GRAPH



Maximum Candela = 4474.465 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)



Horizontal Footcandles
 Scale: 1 Inch = 8 Ft.
 Light Loss Factor = 1.00
 Lumens Per Lamp = N.A. (absolute photometry)
 Luminaire Lumens = 2061
 Mounting Height = 10.00 Ft
 Maximum Calculated Value = 44.74 Fc
 Arrangement: Single

PHOTOMETRIC FILENAME : 7588 IES.IES

DESCRIPTIVE INFORMATION (From Photometric File)

TEMPLATE SPECIFICATION

Horizontal Footcandles
Scale: 1 Inch = 8 Ft.
Light Loss Factor = 1.00
Lumens Per Lamp = N.A. (absolute photometry)
Luminaire Lumens = 2061
Mounting Height = 10.00 Ft
Maximum Calculated Value = 44.74 Fc
Arrangement: Single

LUMINAIRE LAYOUT INFORMATION

<u>#</u>	<u>X</u>	<u>Y</u>	<u>Z</u>	<u>Orient</u>	<u>Tilt</u>	<u>Roll</u>	<u>Spin</u>	<u>Tilt Correction</u>
1	0.00	0.00	10.00	0.00	0.00	0.00	0.00	1.00