

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : BS101LEDECO-E4SAWT40120-27V\_P.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] 1858, GONI II

[TESTLAB] CSA Group

[TESTDATE] 02/17/2026

[ISSUEDATE] 02/17/2026

[MANUFAC] BEGHELLI NORTH AMERICA

[LUMCAT] BS101LEDECO-E4SAWT40120-27V\_P

[LUMINAIRE] 49.5"L. X 4.7"W. X 3.25"H. LINEAR LED LUMINAIRE

[MORE] FROSTED POLYCARBONATE DIFFUSER

[LAMP] 4000K

[OTHER] THE CANDELA VALUES ARE ABOSOLUTE AND SHOULD NOT BE FACTORED FOR DIFFERENT LAMP RATINGS

[FILEGENINFO] TEST AT AN ACCREDITED LAB. AN ABSOLUTE TEST AT A LAB WITH ACCREDITATION FOR THIS TEST MET

[ DRIVER] PAIRUI PGAU040C0700VSLM1

[ STABILIZATION] 70:15.4 STABLE

[ AMBIENT] 25.0 deg C

[ INPUT] 120.1VAC, 0.31A, 36.13W, 0.9785PF, 13.55 %ATHD

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1294
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	129
Total Luminaire Watts	10
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.38
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	4.13 ft
Luminous Width (90-270)	0.36 ft
Luminous Height	0.10 ft

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**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2445	2351	2566
55	2107	2420	2388
65	1744	2299	1881
75	1384	1603	1281
85	1098	922	622

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**CANDELA TABULATION**

	<b>0</b>	<b>5</b>	<b>10</b>	<b>15</b>	<b>20</b>	<b>25</b>	<b>30</b>	<b>35</b>	<b>40</b>	<b>45</b>
<b>0.0</b>	422.979	422.979	422.979	422.979	422.979	422.979	422.979	422.979	422.979	422.979
<b>2.5</b>	419.101	419.655	420.763	420.209	421.317	421.871	422.148	422.148	421.871	421.040
<b>5.0</b>	417.716	418.270	419.378	418.824	420.209	421.040	421.594	421.871	421.040	421.040
<b>7.5</b>	415.500	416.054	416.331	416.885	418.270	419.378	420.209	420.486	419.932	419.655
<b>10.0</b>	411.068	412.176	413.284	413.561	415.500	416.608	417.162	417.439	416.885	416.054
<b>12.5</b>	406.359	407.467	408.575	409.406	411.622	413.007	413.284	413.284	411.899	411.068
<b>15.0</b>	401.096	401.927	402.758	404.420	406.359	408.021	408.298	407.190	405.251	404.697
<b>17.5</b>	393.340	394.448	396.664	397.772	399.988	400.542	399.988	398.880	396.941	395.833
<b>20.0</b>	385.584	386.692	388.354	390.293	391.955	392.232	391.401	390.016	387.246	386.415
<b>22.5</b>	376.720	377.551	378.936	381.429	382.537	382.814	381.429	379.490	376.997	376.166
<b>25.0</b>	365.363	366.748	369.241	370.903	372.011	371.180	369.795	367.579	365.917	365.086
<b>27.5</b>	353.729	355.391	357.607	359.269	359.823	358.715	357.607	355.391	354.006	353.452
<b>30.0</b>	341.541	342.926	344.588	346.804	346.804	345.973	344.588	342.649	341.541	341.541
<b>32.5</b>	326.860	328.799	331.569	333.231	333.231	332.123	330.738	329.630	329.076	329.630
<b>35.0</b>	312.456	314.118	316.611	318.550	318.827	317.996	316.611	316.057	316.334	317.719
<b>37.5</b>	296.944	298.606	300.545	303.315	304.146	303.592	302.207	302.207	303.869	306.362
<b>40.0</b>	279.770	281.709	284.756	287.249	288.634	288.080	287.803	288.911	291.958	296.667
<b>42.5</b>	262.596	264.535	267.582	270.629	272.568	272.291	273.399	275.892	280.601	287.249
<b>45.0</b>	244.868	247.084	250.131	253.732	255.948	256.779	259.549	263.981	270.352	278.939
<b>47.5</b>	226.863	229.079	232.680	236.835	239.328	241.544	246.530	253.178	260.934	271.737
<b>50.0</b>	208.858	211.074	215.229	219.938	223.262	226.309	233.511	242.098	252.901	264.535
<b>52.5</b>	190.299	193.346	197.778	203.041	207.196	212.182	221.323	232.126	245.145	257.610
<b>55.0</b>	172.848	175.618	180.327	186.144	191.684	199.440	210.243	222.985	237.389	250.408
<b>57.5</b>	155.397	157.890	163.984	170.078	177.557	186.698	199.163	214.121	229.356	241.544
<b>60.0</b>	138.777	141.270	147.641	154.843	163.707	174.510	188.914	205.257	219.661	229.910
<b>62.5</b>	122.988	125.758	131.298	139.885	150.134	163.430	179.496	195.008	208.304	214.121
<b>65.0</b>	107.199	109.969	117.171	126.035	137.669	152.350	169.801	184.205	192.515	195.839
<b>67.5</b>	92.518	95.842	103.044	112.739	125.758	140.993	158.167	169.524	174.233	174.510
<b>70.0</b>	79.499	82.546	89.194	99.720	113.847	129.082	143.486	151.519	154.012	150.411
<b>72.5</b>	66.203	69.527	76.729	87.255	101.382	116.617	128.528	132.129	130.744	126.035
<b>75.0</b>	54.015	57.339	64.541	74.790	88.363	101.936	110.523	111.077	107.476	103.044
<b>77.5</b>	43.212	45.982	52.630	62.325	74.790	85.039	90.856	90.025	86.147	82.823
<b>80.0</b>	32.409	34.902	42.104	50.691	60.663	68.142	70.912	70.081	67.588	64.541
<b>82.5</b>	23.545	26.038	31.578	39.611	47.367	53.184	54.569	53.738	51.799	49.306
<b>85.0</b>	16.897	18.559	22.160	29.362	35.733	40.719	41.827	40.719	38.780	38.226
<b>87.5</b>	10.249	12.188	16.897	21.329	26.592	28.531	29.362	29.916	29.916	29.085
<b>90.0</b>	6.925	8.310	12.188	15.789	19.667	21.329	22.160	22.991	22.991	22.714
<b>92.5</b>	5.817	6.648	8.033	11.634	14.681	17.174	18.282	18.836	18.559	18.836
<b>95.0</b>	4.709	4.986	6.925	9.141	11.634	13.019	14.404	15.512	16.066	16.343
<b>97.5</b>	4.155	4.432	5.540	7.479	9.418	11.080	12.742	13.850	14.681	14.681
<b>100.0</b>	3.878	3.878	4.709	6.371	8.033	9.972	11.634	12.742	13.573	13.850
<b>102.5</b>	3.324	3.601	4.155	5.263	7.202	8.864	10.526	11.911	12.742	13.296
<b>105.0</b>	3.047	3.047	3.324	4.709	6.371	8.033	9.695	11.080	12.188	12.742
<b>107.5</b>	2.770	2.770	3.047	3.878	5.540	7.202	8.864	10.526	11.634	12.465
<b>110.0</b>	2.493	2.493	2.493	3.047	4.432	6.371	8.033	9.695	10.803	11.634
<b>112.5</b>	2.216	2.216	2.216	2.493	3.601	5.540	7.202	8.864	9.972	11.080
<b>115.0</b>	1.939	1.939	1.939	2.216	3.047	4.432	6.094	7.756	9.141	9.972
<b>117.5</b>	1.662	1.662	1.662	1.662	2.493	3.324	4.986	6.648	8.033	9.141
<b>120.0</b>	1.385	1.385	1.385	1.385	1.939	2.770	4.155	5.540	6.925	8.033
<b>122.5</b>	1.385	1.385	1.108	1.108	1.385	2.216	3.047	4.155	5.540	6.648
<b>125.0</b>	1.108	1.108	1.108	1.108	1.108	1.662	2.493	3.324	4.432	5.540
<b>127.5</b>	1.108	0.831	0.831	0.831	0.831	1.385	1.939	2.493	3.324	4.432
<b>130.0</b>	0.000	0.000	0.000	0.000	0.000	1.108	1.385	1.939	2.493	3.324
<b>132.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	1.108	1.385	1.939	2.493

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135.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.108	1.662	1.939
137.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.108	1.662
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.831	1.108
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.831
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. Angles	Horizontal Angles									
	50	55	60	65	70	75	80	85	90	
0.0	422.979	422.979	422.979	422.979	422.979	422.979	422.979	422.979	422.979	
2.5	421.594	422.425	423.256	423.810	424.641	425.749	426.857	425.749	426.857	
5.0	421.317	422.148	422.702	422.702	424.087	425.749	425.749	425.472	425.195	
7.5	420.486	421.040	421.317	420.763	422.425	424.087	423.256	422.979	422.148	
10.0	415.777	416.608	417.162	417.162	417.716	418.547	419.378	418.547	419.101	
12.5	410.514	410.791	410.791	410.514	411.345	412.176	412.730	412.176	412.730	
15.0	404.143	403.589	403.312	402.481	403.589	404.697	404.420	404.143	404.143	
17.5	395.002	394.448	394.171	393.894	394.725	395.556	395.833	395.279	395.279	
20.0	385.584	385.030	384.476	384.753	385.584	386.138	386.415	385.861	386.138	
22.5	375.612	375.058	374.504	374.781	375.889	376.720	376.720	376.443	376.166	
25.0	364.532	364.255	364.255	364.809	366.194	367.025	367.302	367.025	366.471	
27.5	353.175	353.452	354.006	355.114	356.776	357.330	358.161	357.607	357.607	
30.0	342.095	342.649	343.757	345.419	347.635	348.743	349.851	349.851	349.574	
32.5	331.292	332.677	334.339	336.832	339.325	342.095	342.372	343.480	341.818	
35.0	320.766	323.259	326.029	329.353	333.231	336.001	337.386	338.217	337.663	
37.5	310.794	314.949	319.104	323.813	328.245	331.292	334.062	334.893	334.893	
40.0	302.484	308.024	313.564	319.104	324.367	327.691	330.738	331.292	332.123	
42.5	294.174	301.376	308.855	314.672	320.212	324.644	326.306	327.968	327.137	
45.0	287.249	296.113	304.146	310.517	315.503	319.381	320.489	321.597	320.489	
47.5	281.709	291.127	298.883	304.700	309.132	310.517	313.010	311.902	313.841	
50.0	276.169	285.310	291.681	296.667	298.883	300.268	299.714	299.991	299.160	
52.5	268.967	277.000	282.263	284.756	285.864	286.141	283.925	283.925	281.986	
55.0	259.272	265.643	269.521	269.798	269.244	267.028	266.197	264.258	264.535	
57.5	249.300	252.347	252.624	251.516	249.023	247.084	244.868	243.760	242.652	
60.0	234.342	234.896	232.957	230.187	227.417	225.478	222.154	221.323	219.938	
62.5	214.398	213.290	210.520	207.473	204.149	201.933	199.440	198.332	197.224	
65.0	194.454	190.853	186.698	183.928	180.881	178.111	176.726	175.341	175.341	
67.5	171.186	166.477	162.322	159.829	157.613	155.120	154.289	153.181	153.458	
70.0	146.256	142.101	138.223	136.561	135.176	133.514	132.406	131.852	131.575	
72.5	121.049	118.279	116.340	114.678	113.847	112.185	112.185	111.077	112.185	
75.0	99.720	97.504	95.565	94.457	94.180	92.795	92.518	91.687	93.349	
77.5	80.884	78.391	76.729	76.452	76.175	76.175	74.513	74.513	74.513	
80.0	62.325	61.494	61.217	60.386	60.109	59.555	59.001	58.447	59.278	

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**CANDELA TABULATION - (Cont.)**

82.5	48.752	48.198	47.367	46.536	46.259	45.705	44.874	44.320	44.597
85.0	37.949	36.564	35.456	35.179	34.625	35.179	32.963	33.240	31.301
87.5	27.700	27.423	27.423	26.869	26.038	25.484	25.484	24.930	25.484
90.0	22.160	22.160	21.606	21.052	20.775	19.667	19.667	19.390	20.221
92.5	18.836	18.282	17.451	17.174	16.897	16.897	16.066	16.066	15.512
95.0	16.066	15.789	15.512	15.235	14.681	14.127	14.127	13.850	14.127
97.5	14.681	14.404	14.127	13.573	13.296	12.742	12.742	12.465	12.742
100.0	14.127	13.850	13.296	13.019	12.465	12.188	11.911	11.911	11.634
102.5	13.296	13.296	13.019	12.465	12.188	11.634	11.634	11.357	11.357
105.0	13.019	13.019	12.742	12.188	11.911	11.634	11.357	11.080	11.080
107.5	12.742	12.742	12.465	12.188	11.634	11.357	11.080	11.080	11.080
110.0	12.188	12.188	12.188	11.911	11.634	11.357	11.080	11.080	10.803
112.5	11.357	11.634	11.634	11.634	11.357	11.080	11.080	10.803	10.803
115.0	10.803	11.080	11.080	11.080	11.080	10.803	10.803	10.803	10.803
117.5	9.695	10.249	10.526	10.526	10.526	10.526	10.249	10.249	10.249
120.0	8.864	9.141	9.695	9.695	9.972	9.972	9.972	9.972	9.972
122.5	7.756	8.310	8.587	8.864	9.141	9.141	9.141	9.141	9.141
125.0	6.648	7.202	7.756	8.033	8.310	8.310	8.310	8.587	8.587
127.5	5.263	6.094	6.648	6.925	7.202	7.479	7.479	7.756	7.756
130.0	4.155	4.986	5.540	5.817	6.371	6.648	6.648	6.648	6.648
132.5	3.047	3.878	4.432	4.986	5.263	5.540	5.540	5.817	5.817
135.0	2.493	3.047	3.324	3.878	4.155	4.432	4.709	4.709	4.709
137.5	1.939	2.216	2.770	3.047	3.324	3.601	3.601	3.878	3.878
140.0	1.385	1.662	2.216	2.493	2.493	2.770	3.047	3.047	3.324
142.5	1.108	1.385	1.662	1.939	2.216	2.216	2.216	2.493	2.493
145.0	0.831	1.108	1.385	1.385	1.662	1.662	1.939	1.939	1.939
147.5	0.000	0.831	1.108	1.108	1.385	1.385	1.385	1.662	1.662
150.0	0.000	0.000	0.000	0.831	1.108	1.108	1.108	1.108	1.108
152.5	0.000	0.000	0.000	0.000	0.831	0.831	1.108	1.108	1.108
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.831
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	154.06	N.A.	11.90
0-30	323.30	N.A.	25.00
0-40	526.17	N.A.	40.70
0-60	952.90	N.A.	73.70
0-80	1214.66	N.A.	93.90
0-90	1253.72	N.A.	96.90
10-90	1213.61	N.A.	93.80
20-40	372.11	N.A.	28.80
20-50	590.56	N.A.	45.70
40-70	590.92	N.A.	45.70
60-80	261.76	N.A.	20.20
70-80	97.57	N.A.	7.50
80-90	39.05	N.A.	3.00
90-110	25.52	N.A.	2.00
90-120	33.21	N.A.	2.60
90-130	37.68	N.A.	2.90
90-150	39.87	N.A.	3.10
90-180	39.93	N.A.	3.10
110-180	14.40	N.A.	1.10
0-180	1293.64	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	40.11
10-20	113.95
20-30	169.24
30-40	202.87
40-50	218.45
50-60	208.28
60-70	164.19
70-80	97.57
80-90	39.05
90-100	15.16
100-110	10.36
110-120	7.69
120-130	4.47
130-140	1.71
140-150	0.48
150-160	0.06
160-170	0.00
170-180	0.00

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : BS101LEDECO-E4SAWT40120-27V\_P.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	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	97
1	107	102	98	94	104	100	95	92	95	91	88	90	88	85	86	84	82	80
2	97	89	81	75	94	86	80	74	82	77	72	79	74	70	75	71	68	66
3	88	77	69	62	86	76	68	61	72	65	60	69	63	59	66	61	57	55
4	81	68	59	52	78	67	58	52	64	57	51	61	55	50	59	53	49	46
5	74	61	52	45	72	60	51	45	57	50	44	55	48	43	53	47	42	40
6	68	55	46	39	66	54	45	39	51	44	38	49	43	38	48	42	37	35
7	63	50	41	34	61	49	40	34	47	39	34	45	38	33	43	37	33	31
8	59	45	37	31	57	44	36	30	43	35	30	41	35	30	40	34	29	27
9	55	41	33	27	53	41	33	27	39	32	27	38	31	27	37	31	26	25
10	52	38	30	25	50	38	30	25	36	29	24	35	29	24	34	28	24	22

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : BS101LEDECO-E4SAWT40120-27V\_P.IES**

**UGR TABLE - CORRECTED**

Reflectances

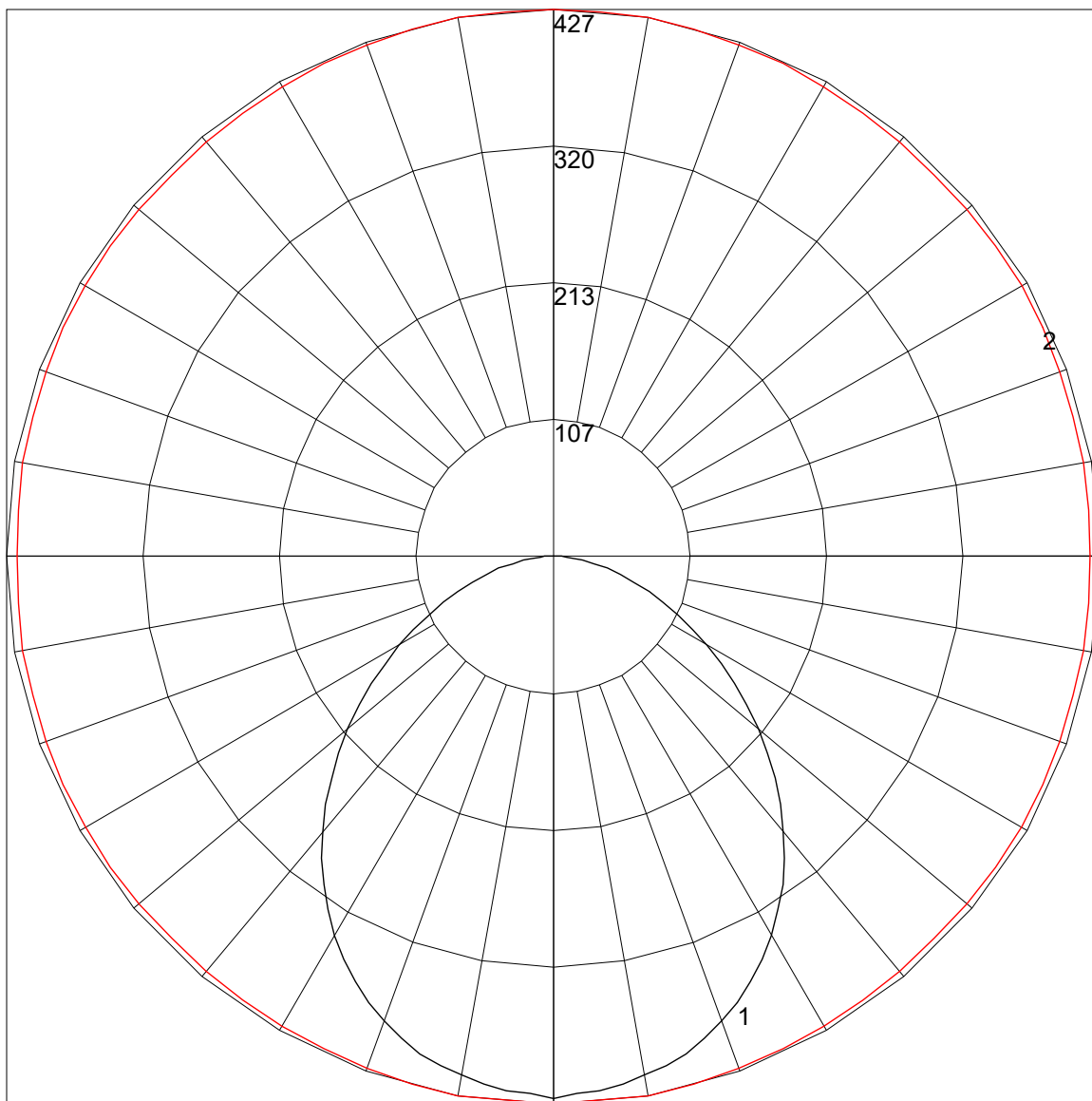
Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20

Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	13.1	14.7	13.5	15.1	15.4	16.2	17.8	16.6	18.2	18.5
	3H	14.4	15.9	14.8	16.3	16.7	17.8	19.2	18.2	19.6	20.1
	4H	14.8	16.2	15.3	16.6	17.1	18.4	19.7	18.8	20.2	20.6
	6H	15.1	16.4	15.5	16.8	17.2	18.8	20.1	19.3	20.5	21.0
	8H	15.1	16.4	15.6	16.8	17.3	19.0	20.2	19.5	20.7	21.1
	12H	15.2	16.3	15.6	16.8	17.3	19.1	20.3	19.6	20.8	21.3
4H	2H	14.5	15.9	14.9	16.3	16.7	16.7	18.1	17.2	18.5	19.0
	3H	16.2	17.4	16.7	17.9	18.3	18.5	19.7	19.0	20.1	20.6
	4H	16.8	17.9	17.3	18.4	18.9	19.2	20.3	19.7	20.7	21.2
	6H	17.2	18.1	17.7	18.6	19.2	19.8	20.7	20.3	21.2	21.7
	8H	17.3	18.2	17.8	18.7	19.2	20.0	20.9	20.5	21.4	21.9
	12H	17.3	18.1	17.9	18.7	19.2	20.2	21.0	20.7	21.5	22.0
8H	4H	17.4	18.3	17.9	18.7	19.3	19.4	20.3	19.9	20.8	21.3
	6H	18.0	18.7	18.5	19.2	19.8	20.1	20.8	20.6	21.4	21.9
	8H	18.2	18.8	18.7	19.4	19.9	20.4	21.0	20.9	21.6	22.1
	12H	18.3	18.9	18.8	19.4	20.0	20.6	21.2	21.2	21.8	22.4
12H	4H	17.4	18.2	18.0	18.7	19.3	19.4	20.2	20.0	20.8	21.3
	6H	18.1	18.7	18.6	19.2	19.9	20.1	20.8	20.7	21.3	21.9
	8H	18.3	18.9	18.9	19.5	20.1	20.4	21.0	21.0	21.6	22.2

Maximum UGR = 22.4



POLAR GRAPH



Maximum Candela = 426.857 Located At Horizontal Angle = 80, Vertical Angle = 2.5

# 1 - Vertical Plane Through Horizontal Angles (0 - 180)

# 2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)