Distribution - Goniophotometer

Distribution Test Conditions

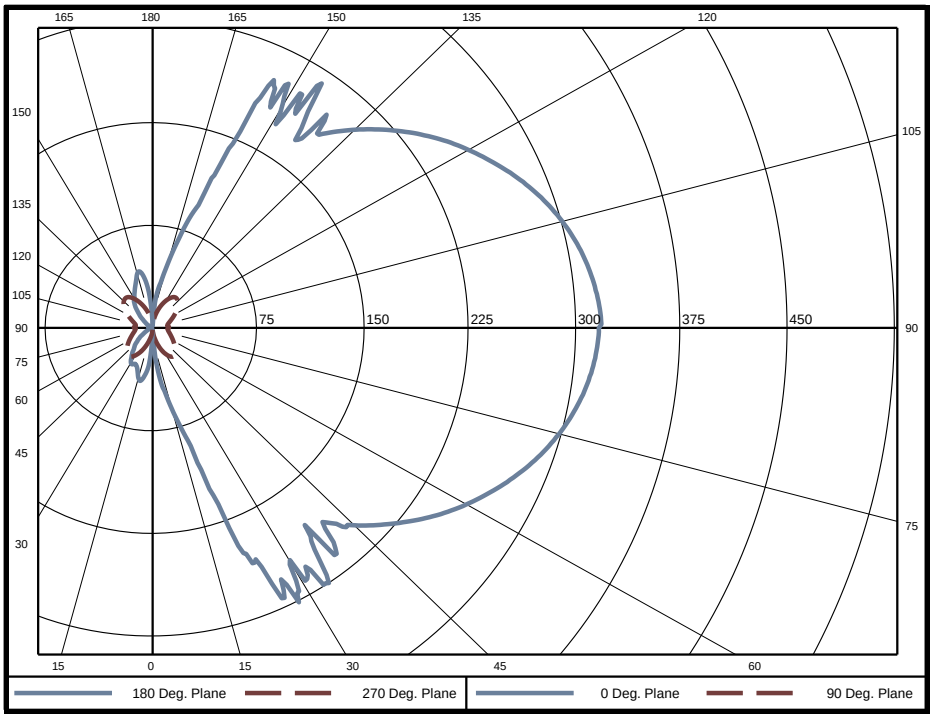
Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.7 °C	120.1 VAC	0.2393 A	28.63 W	0.996	60 Hz	7.18 %

Summary of Results

Spacing Criteria
0-180: 15.17
90-270: 3.42

Total Lumen Output: 995.8 Lumens
Luminaire Efficacy: 34.8 lm/w
Maximum Candela: 320 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	0.18	0.0%	60-65	40.40	4.1%	120-125	36.51	3.7%
5-10	1.61	0.2%	65-70	43.54	4.4%	125-130	32.99	3.3%
10-15	4.08	0.4%	70-75	46.45	4.7%	130-135	29.54	3.0%
15-20	7.40	0.7%	75-80	48.96	4.9%	135-140	26.55	2.7%
20-25	13.06	1.3%	80-85	50.83	5.1%	140-145	23.98	2.4%
25-30	18.81	1.9%	85-90	51.95	5.2%	145-150	20.77	2.1%
30-35	23.01	2.3%	90-95	52.15	5.2%	150-155	16.36	1.6%
35-40	25.78	2.6%	95-100	50.90	5.1%	155-160	10.64	1.1%
40-45	27.92	2.8%	100-105	48.88	4.9%	160-165	6.49	0.7%
45-50	30.57	3.1%	105-110	46.29	4.6%	165-170	3.62	0.4%
50-55	33.69	3.4%	110-115	43.20	4.3%	170-175	1.44	0.1%
55-60	37.11	3.7%	115-120	39.90	4.0%	175-180	0.18	0.0%

Zone	Lumens	% of Luminaire
0-40	94	9.4%
0-60	223	22.4%
0-90	505	50.7%
90-180	490	49.2%

Candela Tabulation

Horizontal Angle (Degrees)

Vertical Angle (Degrees)	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5
0	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
5	20.9	20.1	10.3	3.3	3.6	8.5	16.1	21.5	25.6	21.5	16.1	8.5	3.6	3.3	10.3	20.1
10	45.4	44.8	34.3	12.9	6.6	20.9	32.9	35.3	37.4	35.3	32.9	20.9	6.6	12.9	34.3	44.8
15	72.3	67.5	48.0	25.1	10.4	32.3	35.9	38.5	37.3	38.5	35.9	32.3	10.4	25.1	48.0	67.5
20	136.9	117.5	66.6	32.5	15.0	35.4	35.0	32.8	30.6	32.8	35.0	35.4	15.0	32.5	66.6	117.5
25	217.7	183.9	98.6	38.8	19.4	35.0	31.9	29.7	29.0	29.7	31.9	35.0	19.4	38.8	98.6	183.9
30	195.7	199.4	131.2	47.9	23.2	33.5	29.0	28.9	29.1	28.9	29.0	33.5	23.2	47.9	131.2	199.4
35	208.4	201.2	150.8	56.9	25.7	31.6	25.8	25.9	24.2	25.9	25.8	31.6	25.7	56.9	150.8	201.2
40	191.4	187.8	147.2	64.7	25.8	29.2	22.3	21.6	19.4	21.6	22.3	29.2	25.8	64.7	147.2	187.8
45	203.7	184.5	146.2	68.1	24.5	26.6	18.3	17.5	15.8	17.5	18.3	26.6	24.5	68.1	146.2	184.5
50	222.4	201.3	146.6	72.4	22.5	24.4	14.4	13.5	11.6	13.5	14.4	24.4	22.5	72.4	146.6	201.3
55	240.9	217.8	152.4	72.8	20.3	22.3	10.9	9.7	7.7	9.7	10.9	22.3	20.3	72.8	152.4	217.8
60	257.9	232.6	162.4	73.7	18.1	20.5	7.9	6.6	5.3	6.6	7.9	20.5	18.1	73.7	162.4	232.6
65	273.5	245.9	171.5	75.3	16.2	18.8	5.3	4.6	3.6	4.6	5.3	18.8	16.2	75.3	171.5	245.9
70	287.6	258.4	180.0	77.8	14.6	17.4	3.3	3.1	2.3	3.1	3.3	17.4	14.6	77.8	180.0	258.4
75	299.7	269.0	187.6	80.6	13.3	16.2	1.9	2.5	2.1	2.5	1.9	16.2	13.3	80.6	187.6	269.0
80	308.9	277.1	193.8	83.2	12.2	15.3	1.5	2.5	2.0	2.5	1.5	15.3	12.2	83.2	193.8	277.1
85	315.2	282.3	197.7	85.1	11.7	15.4	1.5	2.5	2.1	2.5	1.5	15.4	11.7	85.1	197.7	282.3
90	318.0	284.4	199.5	86.0	11.7	15.7	1.4	2.4	2.1	2.4	1.4	15.7	11.7	86.0	199.5	284.4
95	316.9	283.4	198.0	84.3	12.0	15.2	1.6	2.7	2.0	2.7	1.6	15.2	12.0	84.3	198.0	283.4
100	311.0	277.6	193.4	81.9	11.6	14.8	1.8	2.9	2.2	2.9	1.8	14.8	11.6	81.9	193.4	277.6
105	302.1	269.4	187.2	79.1	12.6	14.5	2.0	3.1	2.6	3.1	2.0	14.5	12.6	79.1	187.2	269.4
110	290.2	258.5	179.1	76.4	14.3	15.6	2.1	3.3	2.8	3.3	2.1	15.6	14.3	76.4	179.1	258.5
115	275.8	245.4	170.3	73.8	16.7	17.5	2.5	3.4	2.9	3.4	2.5	17.5	16.7	73.8	170.3	245.4
120	260.1	231.4	160.8	72.7	19.6	19.8	4.5	3.6	3.0	3.6	4.5	19.8	19.6	72.7	160.8	231.4
125	243.2	215.7	150.3	71.2	22.6	22.6	7.6	5.4	4.6	5.4	7.6	22.6	22.6	71.2	150.3	215.7
130	224.4	198.7	142.6	69.0	25.3	25.5	11.5	8.3	6.9	8.3	11.5	25.5	25.3	69.0	142.6	198.7
135	204.9	181.2	145.0	63.1	27.5	28.5	15.9	12.4	11.1	12.4	15.9	28.5	27.5	63.1	145.0	181.2
140	184.4	165.6	133.6	56.4	28.4	31.7	20.5	17.1	15.5	17.1	20.5	31.7	28.4	56.4	133.6	165.6
145	193.0	184.1	138.0	48.1	27.4	34.5	25.2	22.0	21.0	22.0	25.2	34.5	27.4	48.1	138.0	184.1
150	182.2	183.2	102.2	38.4	24.5	36.7	29.7	25.6	24.4	25.6	29.7	36.7	24.5	38.4	102.2	183.2
155	195.3	134.1	74.5	29.5	20.6	38.1	34.1	29.7	28.6	29.7	34.1	38.1	20.6	29.5	74.5	134.1
160	95.6	81.6	51.6	23.5	16.1	37.7	38.4	34.9	33.6	34.9	38.4	37.7	16.1	23.5	51.6	81.6
165	61.4	49.9	34.2	17.8	11.6	33.6	39.8	41.1	40.4	41.1	39.8	33.6	11.6	17.8	34.2	49.9
170	34.1	30.7	23.4	6.2	7.4	23.8	35.2	39.4	39.8	39.4	35.2	23.8	7.4	6.2	23.4	30.7
175	18.4	10.6	4.8	2.7	3.9	10.8	19.3	25.0	23.3	25.0	19.3	10.8	3.9	2.7	4.8	10.6
180	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3

Average Luminance (cd/m^2)

Horizontal Angle (Degrees)

Vertical Angle (Degrees)	0	45	90
0	201	201	201
45	2769	2523	2168
55	2884	2329	1781
65	3008	2417	1457
75	3136	2526	1261
85	3239	2623	1214

Utilization of Lumens - Zonal Cavity Method

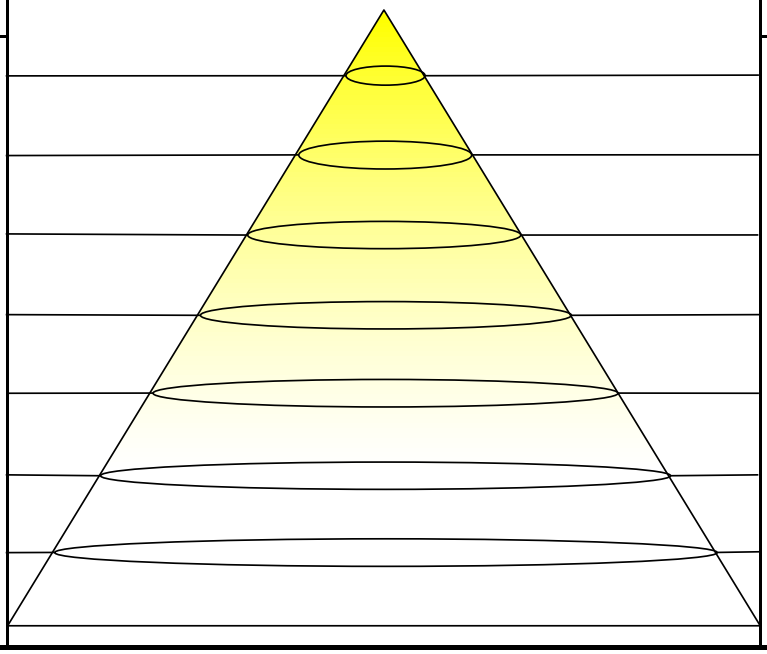
Effective Floor Cavity Reflectance 20%																		
Ceiling Cavity Reflectance	80				70				50			30			10			0
Wall Reflectance	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
Room Cavity Ratio (RCR)	** Values are expressed as Lumens delivered to the task surface **																	
0	1069	1069	1069	1069	987	987	987	987	834	834	834	694	694	694	566	566	566	505
1	924	859	801	748	845	788	737	690	655	615	579	532	502	474	419	397	376	320
2	822	723	641	573	748	662	589	528	546	490	441	440	397	359	341	309	280	231
3	739	620	528	455	671	567	485	419	466	403	350	374	324	283	287	250	218	174
4	669	539	444	371	607	493	408	342	405	338	285	324	272	230	248	208	175	136
5	609	474	379	309	553	433	348	285	357	289	237	285	232	190	219	178	145	110
6	558	420	327	261	506	384	301	241	317	250	200	254	201	161	195	154	122	90
7	514	376	286	224	466	344	263	206	284	219	171	228	176	137	175	135	104	76
8	475	338	252	193	431	310	232	178	257	193	148	207	156	119	159	120	90	64
9	440	306	224	169	401	281	207	156	233	172	129	188	139	104	146	107	78	55
10	410	279	200	148	374	256	185	137	213	155	114	173	125	91	134	96	69	48

Beam and Field Information

CIE Type:	Direct/Indirect
Center Beam Intenisty:	1.4 Candela
Central Cone Intensity:	6 Candela
Beam Flux:	995.7 Lumens
Beam Angle (0-180):	NA Degrees
Beam Angle (90-270):	NA Degrees
Field Angle (0-180):	NA Degrees
Field Angle (90-270):	NA Degrees

Cone of Light Tabulation

Mounting Height (Feet)	Footcandles at Nadir	Diameter (Feet)
4.00	0.0872	40.0
6.00	0.0388	59.9
8.00	0.0218	79.9
10.0	0.0140	99.9
12.0	0.00969	120
14.0	0.00712	140
16.0	0.00545	160



ISOFootcandle Plot

Mounting Height - 8 Feet