



## Distribution - Goniophotometer

### Distribution Test Conditions

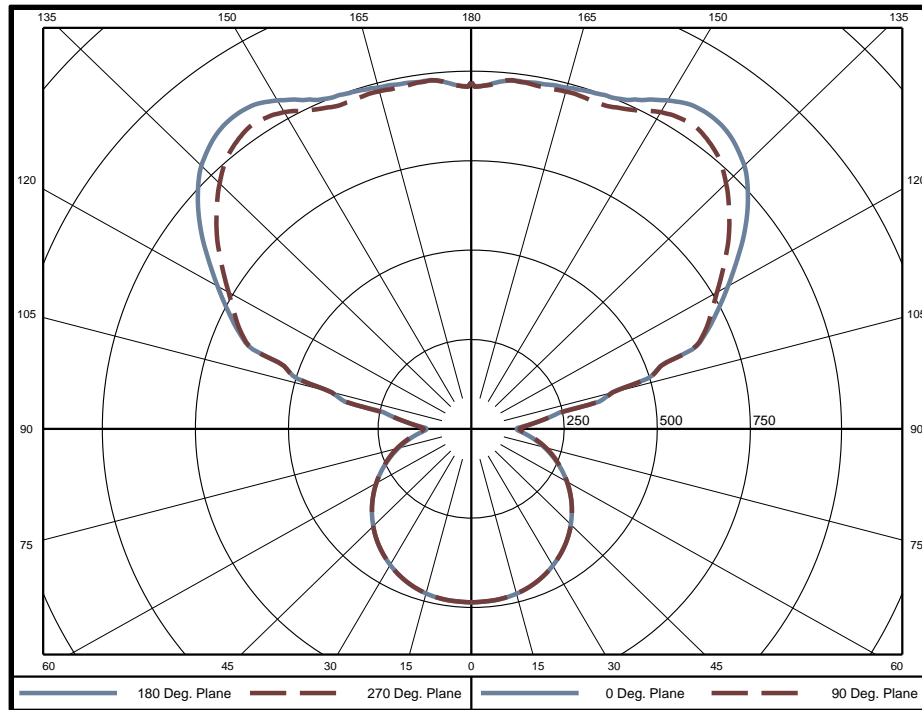
Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.0 °C	120.1 VAC	0.5805 A	69.47 W	0.997	60 Hz	7.19 %

### Summary of Results

**Spacing Criteria**  
 0-180: 1.35  
 90-270: 1.35

**Total Lumen Output:** 6411 Lumens  
**Luminaire Efficacy:** 92.3 lm/w  
**Maximum Candela:** 1104 Candela

### Polar Plot



### Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	11.6	0.2%	60-65	137.5	2.1%	120-125	395.1	6.2%
5-10	34.6	0.5%	65-70	127.9	2.0%	125-130	405.6	6.3%
10-15	56.9	0.9%	70-75	116.3	1.8%	130-135	405.7	6.3%
15-20	77.8	1.2%	75-80	102.6	1.6%	135-140	391.4	6.1%
20-25	96.9	1.5%	80-85	87.5	1.4%	140-145	360.2	5.6%
25-30	113.4	1.8%	85-90	73.3	1.1%	145-150	314.5	4.9%
30-35	127.1	2.0%	90-95	77.9	1.2%	150-155	260.7	4.1%
35-40	137.6	2.1%	95-100	108.6	1.7%	155-160	208.6	3.3%
40-45	144.6	2.3%	100-105	191.3	3.0%	160-165	162.2	2.5%
45-50	147.9	2.3%	105-110	292.1	4.6%	165-170	116.4	1.8%
50-55	147.7	2.3%	110-115	360.6	5.6%	170-175	70.3	1.1%
55-60	144.2	2.2%	115-120	381.0	5.9%	175-180	23.3	0.4%

Zone	Lumens	% of Luminaire
0-40	656	10.2%
0-60	1240	19.3%
0-90	1885	29.4%
90-180	4526	70.6%



**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	485	485	485	485	485	485	485	485	485	485	485	485	485	485	485
	5	485	484	484	484	484	484	484	485	484	484	484	484	484	484	484
	10	482	482	482	482	482	482	482	482	482	482	482	482	482	482	482
	15	477	477	476	477	477	477	476	477	477	477	476	477	477	477	476
	20	468	468	468	468	468	468	468	468	468	468	468	468	468	468	468
	25	456	456	456	456	456	456	456	456	456	456	456	456	456	456	456
	30	440	440	441	441	441	441	440	440	440	441	441	441	441	441	440
	35	422	422	423	423	423	423	422	422	422	423	423	423	423	423	422
	40	402	402	402	402	402	402	402	402	402	402	402	402	402	402	402
	45	378	379	379	379	379	379	379	378	379	379	379	379	379	379	379
	50	353	353	353	354	354	354	353	353	353	353	354	354	354	353	353
	55	325	326	326	327	327	327	326	326	325	326	326	327	327	327	326
	60	296	297	298	298	298	298	297	296	297	298	298	298	298	298	297
	65	267	267	268	269	269	269	267	267	267	268	269	269	269	268	267
	70	235	236	238	239	239	239	238	236	235	236	238	239	239	238	236
	75	204	206	208	209	210	209	208	206	204	206	208	209	210	209	208
	80	173	175	177	178	178	178	177	175	173	175	177	178	178	177	175
	85	142	144	147	148	148	148	147	144	142	144	147	148	148	147	144
	90	123	125	128	129	130	129	128	125	123	125	128	129	130	129	128
	95	164	165	165	166	166	166	165	165	164	165	165	166	166	165	165
	100	230	251	274	247	230	247	274	251	230	251	274	247	230	247	251
	105	391	466	503	456	395	456	503	466	391	466	503	456	395	456	503
	110	596	652	704	652	607	652	704	652	596	652	704	652	607	652	704
	115	716	758	793	744	705	744	793	758	716	758	793	744	705	744	793
	120	796	833	855	805	764	805	855	833	796	833	855	805	764	805	855
	125	884	911	928	875	836	875	928	911	884	911	928	875	836	875	928
	130	970	993	1006	947	907	947	1006	993	970	993	1006	947	907	947	1006
	135	1038	1057	1072	1008	970	1008	1072	1057	1038	1057	1072	1008	970	1008	1072
	140	1077	1094	1102	1052	1019	1052	1102	1094	1077	1094	1102	1052	1019	1052	1102
	145	1086	1098	1095	1061	1039	1061	1095	1098	1086	1098	1095	1061	1039	1061	1095
	150	1060	1063	1065	1037	1023	1037	1065	1063	1060	1063	1065	1037	1023	1037	1065
	155	1015	1015	1019	993	987	993	1019	1015	1015	1019	993	987	993	1019	1015
	160	997	997	983	982	973	982	983	997	997	997	983	982	973	982	983
	165	988	992	977	979	977	979	977	992	988	992	977	979	977	979	977
	170	983	984	985	979	977	979	985	984	983	984	985	979	977	979	985
	175	976	976	987	979	977	979	987	976	976	976	987	979	977	979	987
	180	970	970	970	970	970	970	970	970	970	970	970	970	970	970	970

**Average Luminance (cd/m<sup>2</sup>)**  
Horizontal Angle (Degrees)

Vertical Angle (Degrees)	0	45	90
	0	1265	1265
	45	1347	1351
	55	1180	1183
	65	1014	1020
	75	837	853
	85	647	667



### 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	6554	6554	6554	6554	5876	5876	5876	5876	4609	4609	4609	3450	3450	3450	2386	2386	2386	1885
1	5900	5599	5330	5087	5267	5015	4788	4582	3921	3763	3618	2916	2811	2715	1990	1925	1865	1436
2	5339	4844	4435	4090	4755	4339	3991	3695	3390	3145	2933	2516	2351	2206	1707	1604	1512	1144
3	4849	4229	3749	3366	4313	3790	3379	3048	2962	2669	2428	2197	1998	1830	1487	1361	1253	935
4	4419	3719	3207	2815	3929	3336	2895	2553	2611	2293	2041	1939	1720	1542	1313	1173	1057	781
5	4042	3293	2771	2385	3593	2957	2504	2166	2319	1989	1736	1726	1496	1316	1172	1024	906	664
6	3711	2937	2418	2046	3300	2640	2189	1861	2076	1743	1496	1549	1316	1137	1056	904	786	573
7	3420	2637	2130	1774	3044	2373	1930	1615	1871	1541	1302	1400	1167	993	958	806	689	501
8	3163	2381	1889	1550	2818	2145	1713	1413	1695	1372	1142	1273	1043	874	876	724	610	443
9	2937	2162	1687	1366	2618	1950	1532	1247	1545	1231	1010	1164	938	776	805	655	545	395
10	2735	1972	1515	1211	2441	1781	1378	1106	1415	1110	899	1070	849	694	744	597	490	356

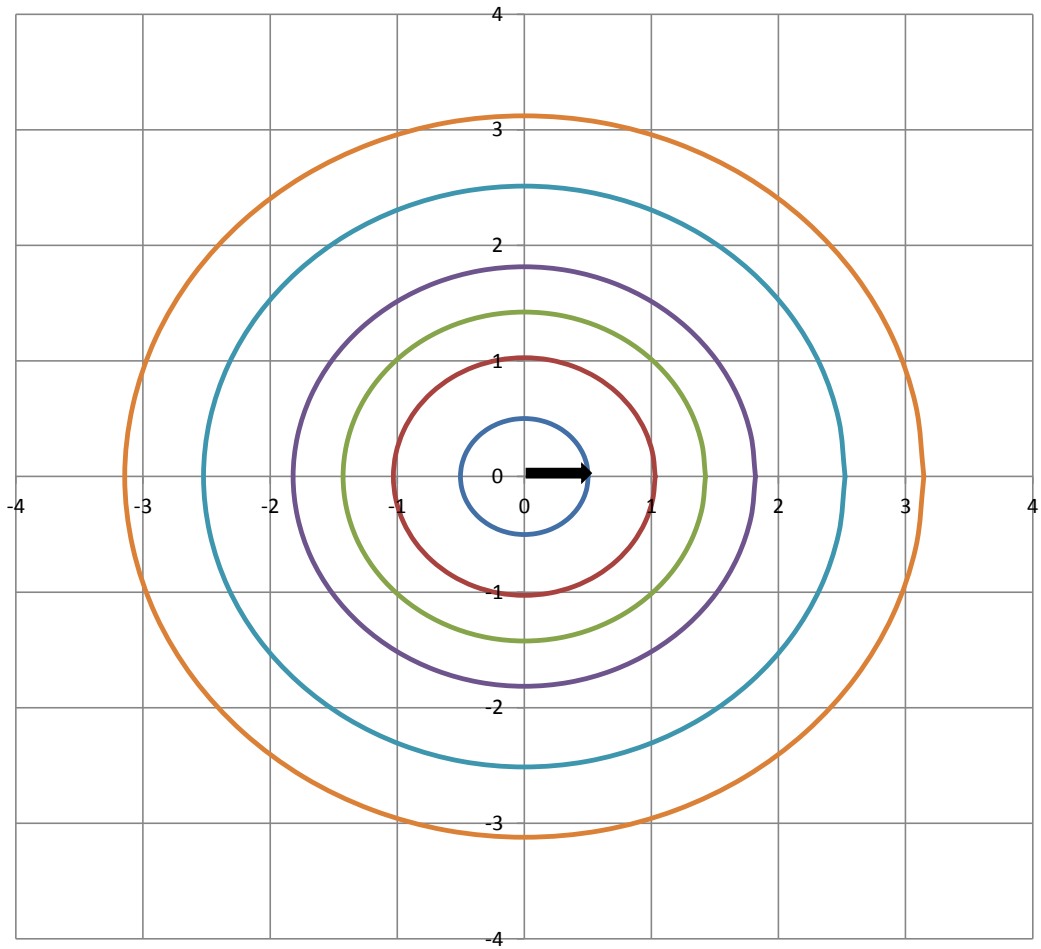
Beam and Field Information	
CIE Type:	Semi-Indirect
Center Beam Intensity:	485 Candela
Central Cone Intensity:	485 Candela
Beam Flux:	5826.6 Lumens
Beam Angle (0-180):	137.7 Degrees
Beam Angle (90-270):	138.9 Degrees
Field Angle (0-180):	#REF! Degrees
Field Angle (90-270):	#REF! Degrees

Cone of Light Tabulation			
Mounting Height (Feet)		Footcandles at Nadir	Diameter (Feet)
4.00		30.3	5.40
6.00		13.5	8.11
8.00		7.58	10.8
10.0		4.85	13.5
12.0		3.37	16.2
14.0		2.47	18.9
16.0		1.89	21.6



## ISOFootcandle Plot

Mounting Height - 8 Feet



Grid Lines in Units of Mounting Height

5 fc    2 fc    1 fc    0.5 fc    0.2 fc    0.1 fc