



## Distribution - Goniophotometer

### Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.0 °C	120.0 VAC	0.4774 A	57.10 W	0.996	60 Hz	7.00 %

### Summary of Results

#### Spacing Criteria

0-180: 1.16

90-270: 1.16

#### Total Lumen Output:

4781 Lumens

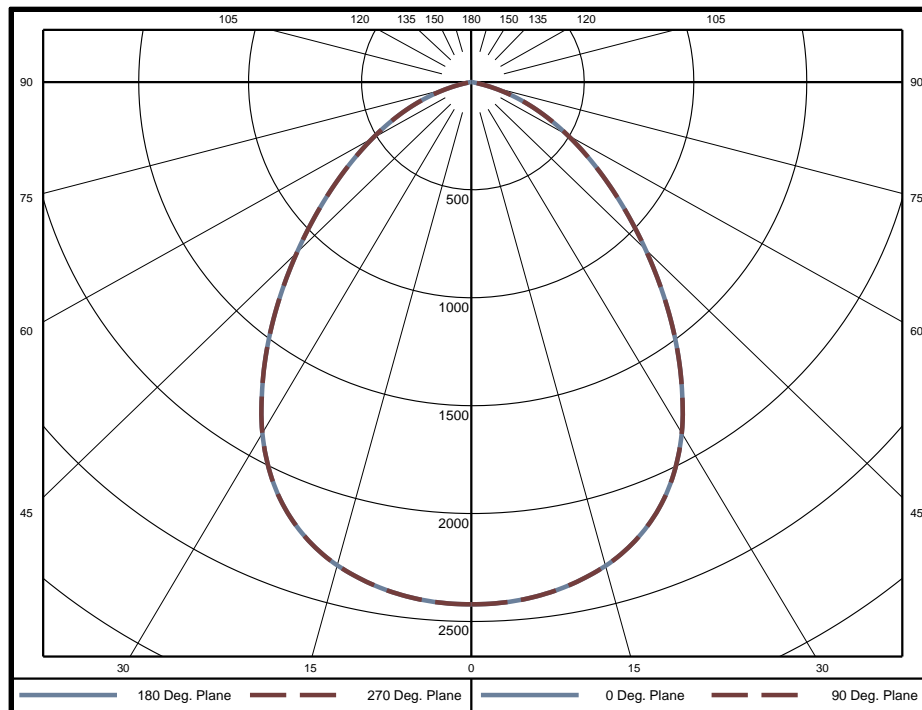
#### Luminaire Efficacy:

83.7 lm/w

#### Maximum Candela:

2420 Candela

### Polar Plot



### Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	57.8	1.2%	60-65	207.4	4.3%	120-125	0	0.0%
5-10	171.4	3.6%	65-70	144.7	3.0%	125-130	0	0.0%
10-15	278.8	5.8%	70-75	82.4	1.7%	130-135	0	0.0%
15-20	375.0	7.8%	75-80	28.1	0.6%	135-140	0	0.0%
20-25	452.3	9.5%	80-85	6.2	0.1%	140-145	0	0.0%
25-30	502.0	10.5%	85-90	2.1	0.0%	145-150	0	0.0%
30-35	516.4	10.8%	90-95	0	0.0%	150-155	0	0.0%
35-40	498.0	10.4%	95-100	0	0.0%	155-160	0	0.0%
40-45	455.2	9.5%	100-105	0	0.0%	160-165	0	0.0%
45-50	397.8	8.3%	105-110	0	0.0%	165-170	0	0.0%
50-55	334.8	7.0%	110-115	0	0.0%	170-175	0	0.0%
55-60	270.7	5.7%	115-120	0	0.0%	175-180	0	0.0%

Zone	Lumens	% of Luminaire
0-40	2852	59.6%
0-60	4310	90.2%
0-90	4781	100.0%
90-180	0	0.0%



**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	2420	2420	2420	2420	2420	2420	2420	2420	2420	2420	2420	2420	2420	2420	2420
	5	2411	2411	2411	2411	2411	2411	2411	2411	2411	2411	2411	2411	2411	2411	2411
	10	2379	2379	2379	2379	2379	2379	2379	2379	2379	2379	2379	2379	2379	2379	2379
	15	2321	2321	2321	2321	2321	2321	2321	2321	2321	2321	2321	2321	2321	2321	2321
	20	2226	2226	2226	2226	2226	2226	2226	2226	2226	2226	2226	2226	2226	2226	2226
	25	2082	2082	2082	2082	2082	2082	2082	2082	2082	2082	2082	2082	2082	2082	2082
	30	1880	1880	1880	1880	1880	1880	1880	1880	1880	1880	1880	1880	1880	1880	1880
	35	1628	1628	1628	1628	1628	1628	1628	1628	1628	1628	1628	1628	1628	1628	1628
	40	1362	1362	1362	1362	1362	1362	1362	1362	1362	1362	1362	1362	1362	1362	1362
	45	1104	1104	1104	1104	1104	1104	1104	1104	1104	1104	1104	1104	1104	1104	1104
	50	873	873	873	873	873	873	873	873	873	873	873	873	873	873	873
	55	674	674	674	674	674	674	674	674	674	674	674	674	674	674	674
	60	503	503	503	503	503	503	503	503	503	503	503	503	503	503	503
	65	354	354	354	354	354	354	354	354	354	354	354	354	354	354	354
	70	220	220	220	220	220	220	220	220	220	220	220	220	220	220	220
	75	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99
	80	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18
	85	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
	90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	105	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	110	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	115	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	130	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	135	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	140	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	145	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	155	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	165	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	170	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	175	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	180	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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

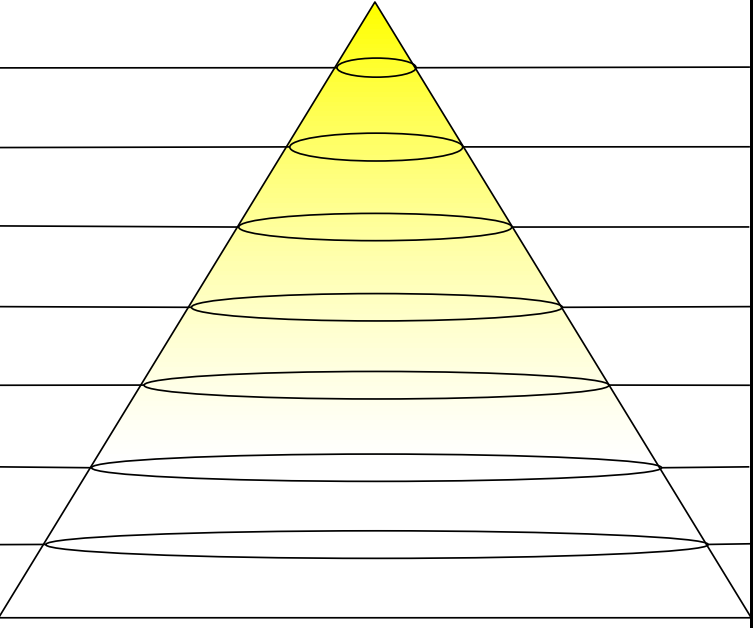
Vertical Angle (Degrees)	0	45	90
	0	7798	7798
	45	5030	5030
	55	3786	3786
	65	2701	2701
	75	1232	1232
	85	274	274



### 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	5691	5691	5691	5691	5559	5559	5559	5559	5312	5312	5312	5086	5086	5086	4878	4878	4878	4781
1	5308	5125	4961	4813	5183	5019	4870	4736	4820	4699	4588	4637	4540	4449	4469	4391	4319	4226
2	4908	4581	4310	4083	4791	4494	4246	4035	4331	4123	3944	4180	4008	3856	4040	3899	3773	3679
3	4536	4106	3774	3510	4426	4034	3727	3479	3898	3636	3420	3772	3550	3363	3655	3468	3308	3214
4	4198	3699	3335	3056	4096	3639	3299	3036	3525	3230	2996	3419	3164	2958	3320	3101	2920	2827
5	3894	3351	2971	2691	3801	3300	2944	2677	3203	2890	2650	3114	2839	2623	3030	2790	2597	2506
6	3621	3051	2668	2394	3536	3008	2647	2384	2926	2604	2365	2850	2564	2346	2778	2525	2327	2238
7	3378	2793	2414	2148	3300	2756	2396	2141	2686	2362	2127	2620	2329	2113	2559	2298	2099	2012
8	3159	2569	2197	1942	3089	2537	2183	1937	2477	2155	1926	2420	2129	1916	2367	2103	1905	1822
9	2964	2373	2012	1768	2900	2346	2000	1764	2294	1977	1755	2245	1955	1747	2198	1934	1740	1659
10	2788	2202	1852	1619	2730	2179	1842	1615	2133	1823	1609	2090	1805	1603	2050	1787	1597	1519

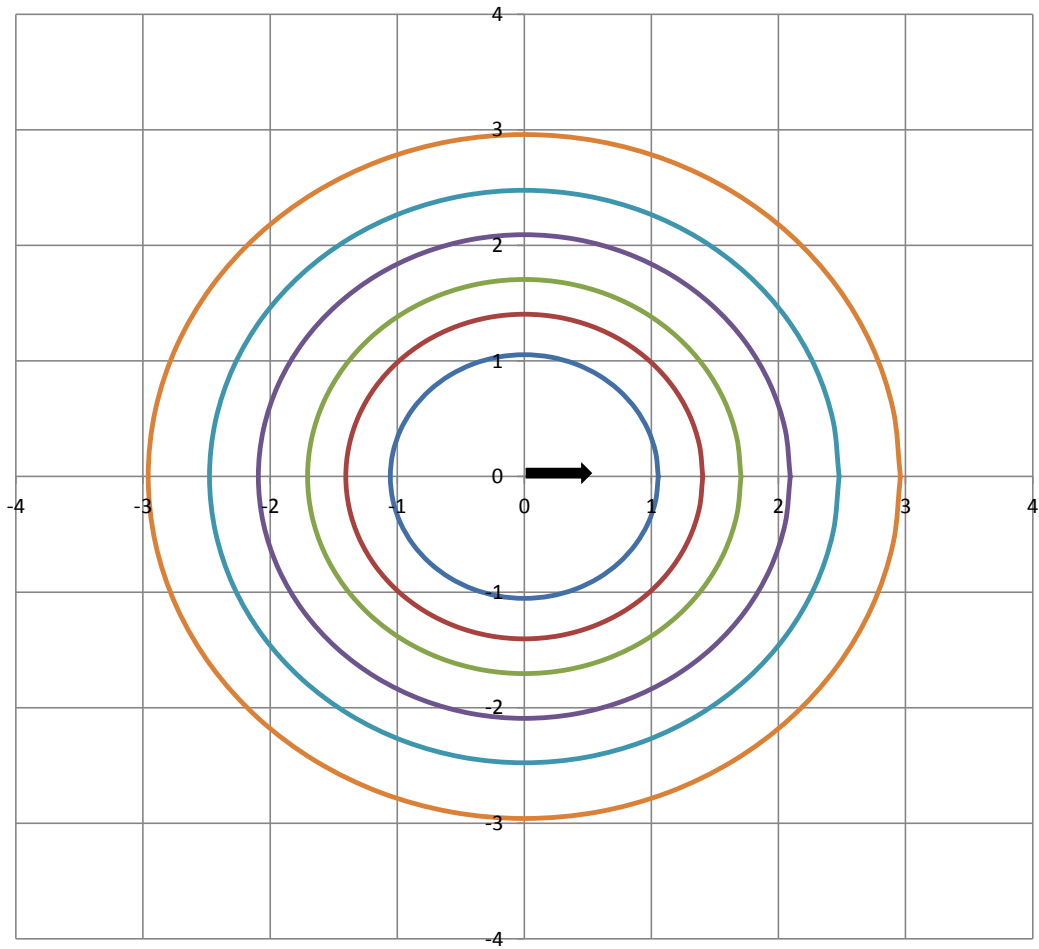
Beam and Field Information	
CIE Type:	Direct
Center Beam Intensity:	2420 Candela
Central Cone Intensity:	2417 Candela
Beam Flux:	3117.2 Lumens
Beam Angle (0-180):	85.8 Degrees
Beam Angle (90-270):	85.8 Degrees
Field Angle (0-180):	138.3 Degrees
Field Angle (90-270):	138.3 Degrees

Cone of Light Tabulation			
Mounting Height (Feet)		Footcandles at Nadir	Diameter (Feet)
4.00		151	4.65
6.00		67.2	6.97
8.00		37.8	9.30
10.0		24.2	11.6
12.0		16.8	13.9
14.0		12.3	16.3
16.0		9.45	18.6



## 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