



## Distribution - Goniophotometer

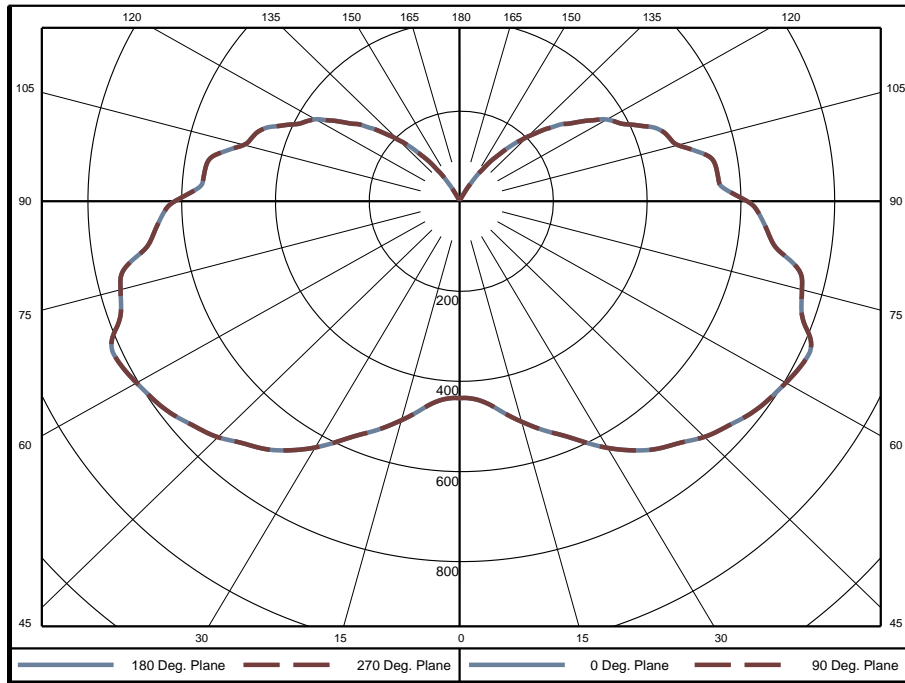
### Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.1 °C	120.0 VAC	0.4003 A	47.57 W	0.991	60 Hz	7.66 %

### Summary of Results

<b>Spacing Criteria</b>	<b>Total Lumen Output:</b>	6527 Lumens
0-180: 2.27	<b>Luminaire Efficacy:</b>	137.2 lm/w
90-270: 2.27	<b>Maximum Candela:</b>	820 Candela
<b>Corrected UGR (Room Dimension: X=4H, Y=8H, Reflectances: 70/50/20%, S/H: 1)</b>	<b>Endwise:</b>	33.3
<b>Crosswise:</b> 33.3		

### Polar Plot



### Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	10.5	0.2%	60-65	395.6	6.1%	120-125	155.1	2.4%
5-10	32.6	0.5%	65-70	409.5	6.3%	125-130	122.3	1.9%
10-15	58.0	0.9%	70-75	401.2	6.1%	130-135	91.9	1.4%
15-20	86.6	1.3%	75-80	397.3	6.1%	135-140	64.2	1.0%
20-25	117.9	1.8%	80-85	367.4	5.6%	140-145	39.3	0.6%
25-30	153.9	2.4%	85-90	350.4	5.4%	145-150	18.8	0.3%
30-35	192.9	3.0%	90-95	315.6	4.8%	150-155	4.9	0.1%
35-40	231.1	3.5%	95-100	300.7	4.6%	155-160	1.2	0.0%
40-45	267.7	4.1%	100-105	276.5	4.2%	160-165	0.9	0.0%
45-50	304.4	4.7%	105-110	245.8	3.8%	165-170	0.7	0.0%
50-55	338.6	5.2%	110-115	219.5	3.4%	170-175	0.4	0.0%
55-60	368.8	5.7%	115-120	185.2	2.8%	175-180	0.1	0.0%

Zone	Lumens	% of Luminaire
0-40	884	13.5%
0-60	2163	33.1%
0-90	4484	68.7%
90-180	2043	31.3%



**Candela Tabulation**  
Horizontal 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	437.0	437.0	437.0	437.0	437.0	437.0	437.0	437.0	437.0	437.0	437.0	437.0	437.0	437.0	437.0	437.0
5	442.5	442.5	442.5	442.5	442.5	442.5	442.5	442.5	442.5	442.5	442.5	442.5	442.5	442.5	442.5	442.5
10	468.8	468.8	468.8	468.8	468.8	468.8	468.8	468.8	468.8	468.8	468.8	468.8	468.8	468.8	468.8	468.8
15	505.8	505.8	505.8	505.8	505.8	505.8	505.8	505.8	505.8	505.8	505.8	505.8	505.8	505.8	505.8	505.8
20	542.9	542.9	542.9	542.9	542.9	542.9	542.9	542.9	542.9	542.9	542.9	542.9	542.9	542.9	542.9	542.9
25	582.3	582.3	582.3	582.3	582.3	582.3	582.3	582.3	582.3	582.3	582.3	582.3	582.3	582.3	582.3	582.3
30	632.2	632.2	632.2	632.2	632.2	632.2	632.2	632.2	632.2	632.2	632.2	632.2	632.2	632.2	632.2	632.2
35	675.3	675.3	675.3	675.3	675.3	675.3	675.3	675.3	675.3	675.3	675.3	675.3	675.3	675.3	675.3	675.3
40	706.6	706.6	706.6	706.6	706.6	706.6	706.6	706.6	706.6	706.6	706.6	706.6	706.6	706.6	706.6	706.6
45	740.0	740.0	740.0	740.0	740.0	740.0	740.0	740.0	740.0	740.0	740.0	740.0	740.0	740.0	740.0	740.0
50	765.4	765.4	765.4	765.4	765.4	765.4	765.4	765.4	765.4	765.4	765.4	765.4	765.4	765.4	765.4	765.4
55	789.7	789.7	789.7	789.7	789.7	789.7	789.7	789.7	789.7	789.7	789.7	789.7	789.7	789.7	789.7	789.7
60	805.9	805.9	805.9	805.9	805.9	805.9	805.9	805.9	805.9	805.9	805.9	805.9	805.9	805.9	805.9	805.9
65	819.7	819.7	819.7	819.7	819.7	819.7	819.7	819.7	819.7	819.7	819.7	819.7	819.7	819.7	819.7	819.7
70	782.9	782.9	782.9	782.9	782.9	782.9	782.9	782.9	782.9	782.9	782.9	782.9	782.9	782.9	782.9	782.9
75	757.9	757.9	757.9	757.9	757.9	757.9	757.9	757.9	757.9	757.9	757.9	757.9	757.9	757.9	757.9	757.9
80	708.5	708.5	708.5	708.5	708.5	708.5	708.5	708.5	708.5	708.5	708.5	708.5	708.5	708.5	708.5	708.5
85	657.0	657.0	657.0	657.0	657.0	657.0	657.0	657.0	657.0	657.0	657.0	657.0	657.0	657.0	657.0	657.0
90	615.2	615.2	615.2	615.2	615.2	615.2	615.2	615.2	615.2	615.2	615.2	615.2	615.2	615.2	615.2	615.2
95	555.7	555.7	555.7	555.7	555.7	555.7	555.7	555.7	555.7	555.7	555.7	555.7	555.7	555.7	555.7	555.7
100	547.2	547.2	547.2	547.2	547.2	547.2	547.2	547.2	547.2	547.2	547.2	547.2	547.2	547.2	547.2	547.2
105	482.6	482.6	482.6	482.6	482.6	482.6	482.6	482.6	482.6	482.6	482.6	482.6	482.6	482.6	482.6	482.6
110	458.9	458.9	458.9	458.9	458.9	458.9	458.9	458.9	458.9	458.9	458.9	458.9	458.9	458.9	458.9	458.9
115	403.2	403.2	403.2	403.2	403.2	403.2	403.2	403.2	403.2	403.2	403.2	403.2	403.2	403.2	403.2	403.2
120	363.2	363.2	363.2	363.2	363.2	363.2	363.2	363.2	363.2	363.2	363.2	363.2	363.2	363.2	363.2	363.2
125	306.1	306.1	306.1	306.1	306.1	306.1	306.1	306.1	306.1	306.1	306.1	306.1	306.1	306.1	306.1	306.1
130	254.2	254.2	254.2	254.2	254.2	254.2	254.2	254.2	254.2	254.2	254.2	254.2	254.2	254.2	254.2	254.2
135	200.0	200.0	200.0	200.0	200.0	200.0	200.0	200.0	200.0	200.0	200.0	200.0	200.0	200.0	200.0	200.0
140	144.3	144.3	144.3	144.3	144.3	144.3	144.3	144.3	144.3	144.3	144.3	144.3	144.3	144.3	144.3	144.3
145	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9
150	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8
155	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
160	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
165	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
170	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
175	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
180	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6

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

	0	45	90
0	245300	245300	245300
45	115800	115800	115800
55	113300	113300	113300
65	111800	111800	111800
75	101400	101400	101400
85	88960	88960	88960

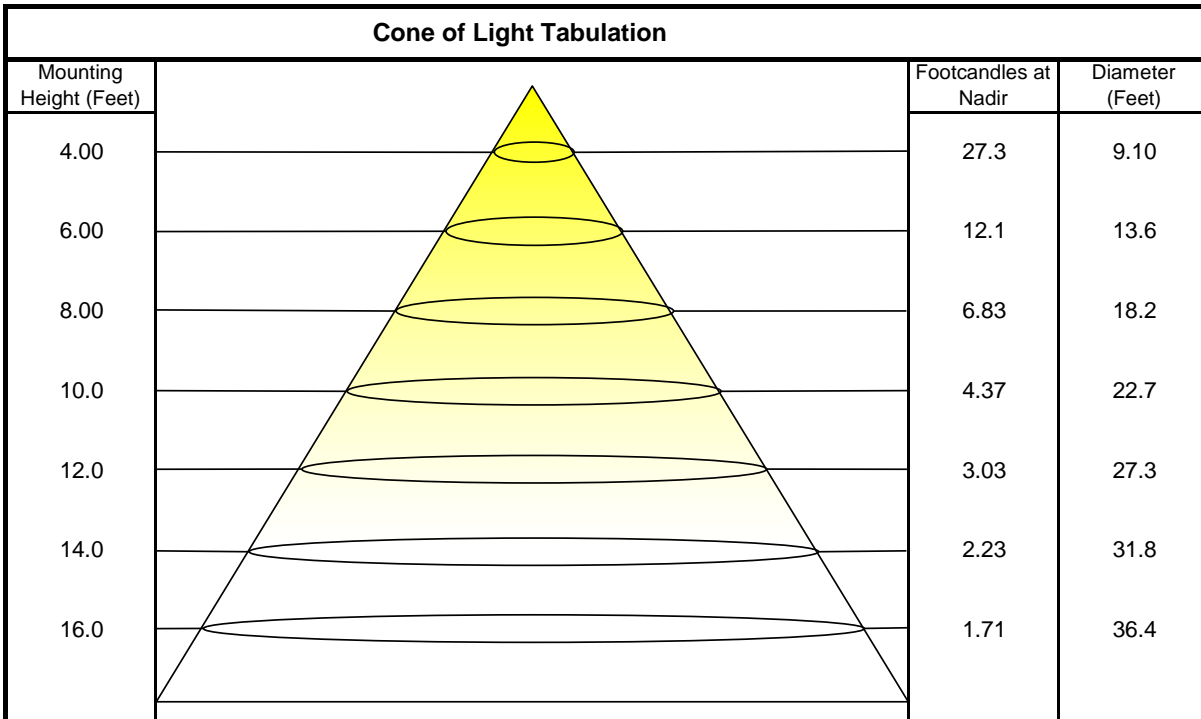


**Coefficients of Utilization - Zonal Cavity Method**

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 percent of total lumen output delivered to the task surface **																	
0	112	112	112	112	105	105	105	105	94	94	94	83	83	83	73	73	73	69
1	96	89	83	77	90	84	78	73	74	69	65	64	61	58	56	53	50	46
2	85	75	66	58	79	70	62	55	61	55	49	53	48	43	45	41	38	34
3	76	63	54	46	71	59	51	43	52	45	39	45	39	34	38	34	29	26
4	69	55	45	37	64	51	42	35	45	37	31	39	32	27	33	28	24	20
5	63	48	38	31	58	45	36	29	39	32	26	34	28	23	29	24	20	16
6	57	43	33	26	53	40	31	24	35	27	22	30	24	19	26	21	16	14
7	53	38	29	22	49	36	27	21	31	24	19	27	21	16	23	18	14	11
8	49	34	25	19	45	32	24	18	28	21	16	25	19	14	21	16	12	10
9	45	31	23	17	42	29	21	16	26	19	14	23	17	12	19	14	11	8
10	42	28	20	15	39	27	19	14	24	17	12	21	15	11	18	13	9	7

Beam and Field Information	
CIE Type:	Semi-Direct
Center Beam Intensity:	437.0 Candela
Central Cone Intensity:	438 Candela
Beam Flux:	6366.2 Lumens
Beam Angle (0-180):	266.4 Degrees
Beam Angle (90-270):	266.4 Degrees
Field Angle (0-180):	298.6 Degrees
Field Angle (90-270):	298.6 Degrees



### ISOFootcandle Plot

Mounting Height - 8 Feet

