



## Distribution - Goniophotometer

### Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.4 °C	120.1 VAC	0.1154 A	13.79 W	0.995	60 Hz	5.30 %

### Summary of Results

#### Spacing Criteria

0-180: 4.68

90-270: 0.24

#### Total Lumen Output:

771.3 Lumens

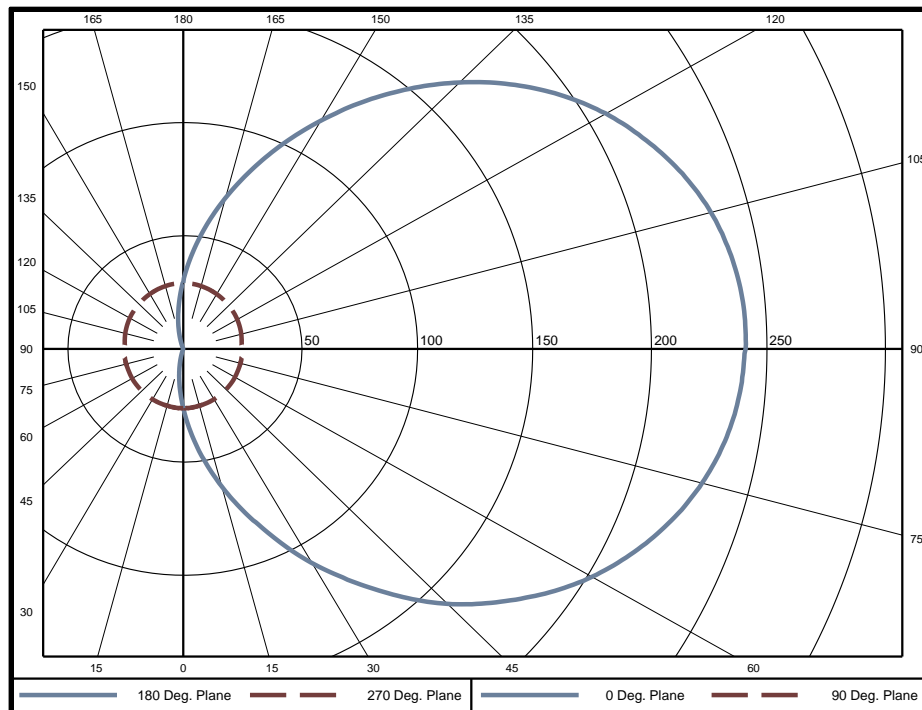
#### Luminaire Efficacy:

55.9 lm/w

#### Maximum Candela:

240 Candela

### Polar Plot



### Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	0.64	0.1%	60-65	32.56	4.2%	120-125	30.23	3.9%
5-10	1.96	0.3%	65-70	35.35	4.6%	125-130	26.83	3.5%
10-15	3.42	0.4%	70-75	37.76	4.9%	130-135	23.30	3.0%
15-20	5.13	0.7%	75-80	39.66	5.1%	135-140	19.80	2.6%
20-25	7.19	0.9%	80-85	40.95	5.3%	140-145	16.39	2.1%
25-30	9.67	1.3%	85-90	41.62	5.4%	145-150	13.17	1.7%
30-35	12.51	1.6%	90-95	41.60	5.4%	150-155	10.25	1.3%
35-40	15.66	2.0%	95-100	41.10	5.3%	155-160	7.70	1.0%
40-45	19.06	2.5%	100-105	40.00	5.2%	160-165	5.56	0.7%
45-50	22.54	2.9%	105-110	38.30	5.0%	165-170	3.74	0.5%
50-55	26.02	3.4%	110-115	36.02	4.7%	170-175	2.15	0.3%
55-60	29.43	3.8%	115-120	33.31	4.3%	175-180	0.70	0.1%

Zone	Lumens	% of Luminaire
0-40	56	7.3%
0-60	153	19.9%
0-90	381	49.4%
90-180	390	50.6%



**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	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2
	5	37.0	36.9	34.4	30.6	26.2	22.7	19.7	17.8	16.7	17.8	19.7	22.7	26.2	30.6	34.4
	10	49.2	48.2	42.6	34.8	26.1	19.1	13.6	10.3	9.0	10.3	13.6	19.1	26.1	34.8	42.6
	15	62.6	60.3	51.4	39.0	26.0	15.7	8.5	4.6	3.3	4.6	8.5	15.7	26.0	39.0	51.4
	20	77.0	73.2	60.7	43.5	26.0	12.7	4.4	0.8	0.0	0.8	4.4	12.7	26.0	43.5	60.7
	25	92.2	87.0	70.3	47.9	26.0	10.1	1.5	0.0	0.0	0.0	1.5	10.1	26.0	47.9	70.3
	30	109.0	101.4	80.1	52.4	26.0	7.7	0.0	0.0	0.0	0.0	0.0	7.7	26.0	52.4	80.1
	35	125.3	116.0	89.9	56.8	25.9	5.7	0.0	0.0	0.0	0.0	0.0	5.7	25.9	56.8	89.9
	40	142.4	131.3	99.9	61.1	25.9	4.1	0.0	0.0	0.0	0.0	0.0	4.1	25.9	61.1	99.9
	45	159.3	146.0	109.6	65.3	25.8	2.7	0.0	0.0	0.0	0.0	0.0	2.7	25.8	65.3	109.6
	50	174.2	159.9	118.8	69.1	25.8	1.7	0.0	0.0	0.0	0.0	0.0	1.7	25.8	69.1	118.8
	55	188.4	172.9	128.0	72.7	25.7	0.9	0.0	0.0	0.0	0.0	0.0	0.9	25.7	72.7	128.0
	60	201.3	184.5	135.9	75.9	25.7	0.4	0.0	0.0	0.0	0.0	0.0	0.4	25.7	75.9	135.9
	65	212.2	194.2	142.9	78.7	25.6	0.2	0.0	0.0	0.0	0.0	0.0	0.2	25.6	78.7	142.9
	70	221.5	202.4	148.9	81.1	25.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.6	81.1	148.9
	75	229.0	209.1	153.9	83.0	25.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.5	83.0	153.9
	80	234.6	213.9	157.3	84.5	25.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.6	84.5	157.3
	85	238.0	216.6	159.6	85.3	25.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.6	85.3	159.6
	90	239.9	218.1	159.7	84.3	25.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.2	84.3	159.7
	95	239.6	217.8	159.6	84.6	25.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.4	84.6	159.6
	100	237.3	215.7	158.1	84.0	25.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.7	84.0	158.1
	105	233.0	211.9	155.4	83.2	26.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26.0	83.2	155.4
	110	226.6	205.9	151.2	81.7	26.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26.3	81.7	151.2
	115	217.9	198.2	145.6	79.7	26.6	0.1	0.0	0.0	0.0	0.0	0.1	26.6	79.7	145.6	198.2
	120	208.1	188.7	138.9	77.3	26.8	0.4	0.0	0.0	0.0	0.0	0.4	26.8	77.3	138.9	188.7
	125	195.8	177.3	131.1	74.3	27.1	1.2	0.0	0.0	0.0	0.0	1.2	27.1	74.3	131.1	177.3
	130	181.8	164.1	122.2	70.9	27.3	2.1	0.0	0.0	0.0	0.0	2.1	27.3	70.9	122.2	164.1
	135	166.5	150.1	112.8	67.3	27.6	3.3	0.0	0.0	0.0	0.0	3.3	27.6	67.3	112.8	150.1
	140	150.0	135.7	103.4	63.4	27.8	4.9	0.0	0.0	0.0	0.0	4.9	27.8	63.4	103.4	135.7
	145	133.1	120.5	93.6	59.4	28.0	6.7	0.0	0.0	0.0	0.0	6.7	28.0	59.4	93.6	120.5
	150	116.0	105.7	83.7	55.1	28.3	9.0	0.1	0.0	0.0	0.0	9.0	28.3	55.1	83.7	105.7
	155	99.6	91.1	73.8	50.8	28.5	11.6	2.3	0.0	0.0	0.0	11.6	28.5	50.8	73.8	91.1
	160	83.6	77.1	64.1	46.3	28.7	14.4	5.6	1.6	1.0	1.6	14.4	28.7	46.3	64.1	77.1
	165	68.8	63.8	54.6	41.9	28.8	17.6	10.0	5.8	5.2	5.8	17.6	28.8	41.9	54.6	63.8
	170	54.8	51.2	45.6	37.5	29.0	21.1	15.4	11.9	11.6	11.9	21.1	29.0	37.5	45.6	51.2
	175	41.8	39.6	37.0	33.2	29.1	24.9	21.7	19.7	20.0	19.7	24.9	29.1	33.2	37.0	39.6
	180	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2

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

Vertical Angle (Degrees)	0	45	90
	0	2110	2110
	45	2489	1470
	55	2651	1488
	65	2793	1551
	75	2913	1678
	85	3018	1899



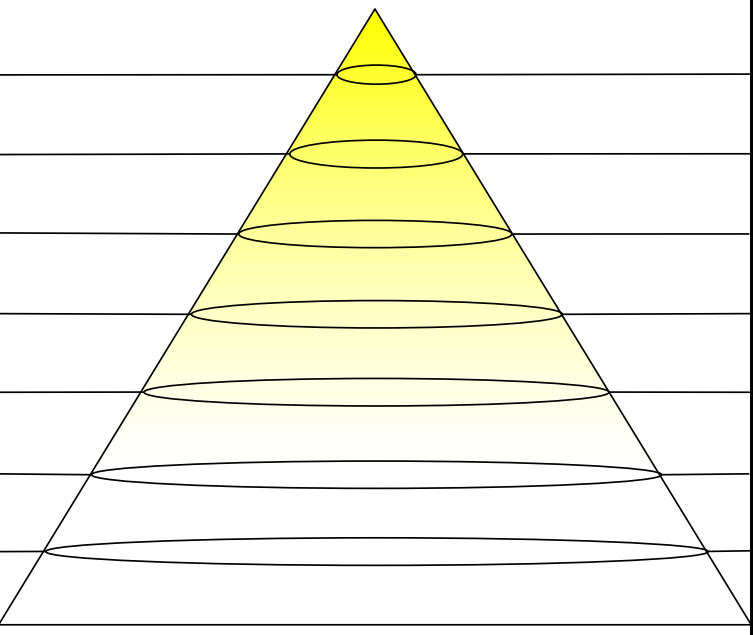
### Utilization of Lumens - Zonal Cavity Method

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	825	825	825	825	761	761	761	761	640	640	640	530	530	530	429	429	429	381
1	711	660	614	573	649	604	563	526	499	467	439	402	378	356	313	295	279	235
2	631	554	489	435	573	505	448	400	414	370	331	330	296	266	252	227	204	165
3	566	473	401	344	513	431	367	316	352	302	261	279	240	208	211	181	156	122
4	512	411	336	280	463	374	308	257	305	253	211	241	200	167	181	150	124	94
5	466	361	287	232	422	329	262	213	268	215	175	212	170	138	159	127	102	74
6	427	320	247	196	386	291	226	179	238	186	147	188	147	116	141	110	85	60
7	393	286	216	167	356	261	198	153	213	163	126	169	129	99	127	96	72	50
8	363	257	190	144	329	235	175	132	193	144	109	153	114	85	116	85	62	42
9	337	233	169	126	306	213	155	116	175	128	95	140	102	75	106	76	54	36
10	314	212	151	111	285	194	139	102	160	115	84	128	92	66	98	69	48	32

#### Beam and Field Information

CIE Type:	Direct/Indirect
Center Beam Intensity:	26.2 Candela
Central Cone Intensity:	27 Candela
Beam Flux:	766.9 Lumens
Beam Angle (0-180):	N/A Degrees
Beam Angle (90-270):	N/A Degrees
Field Angle (0-180):	N/A Degrees
Field Angle (90-270):	N/A Degrees

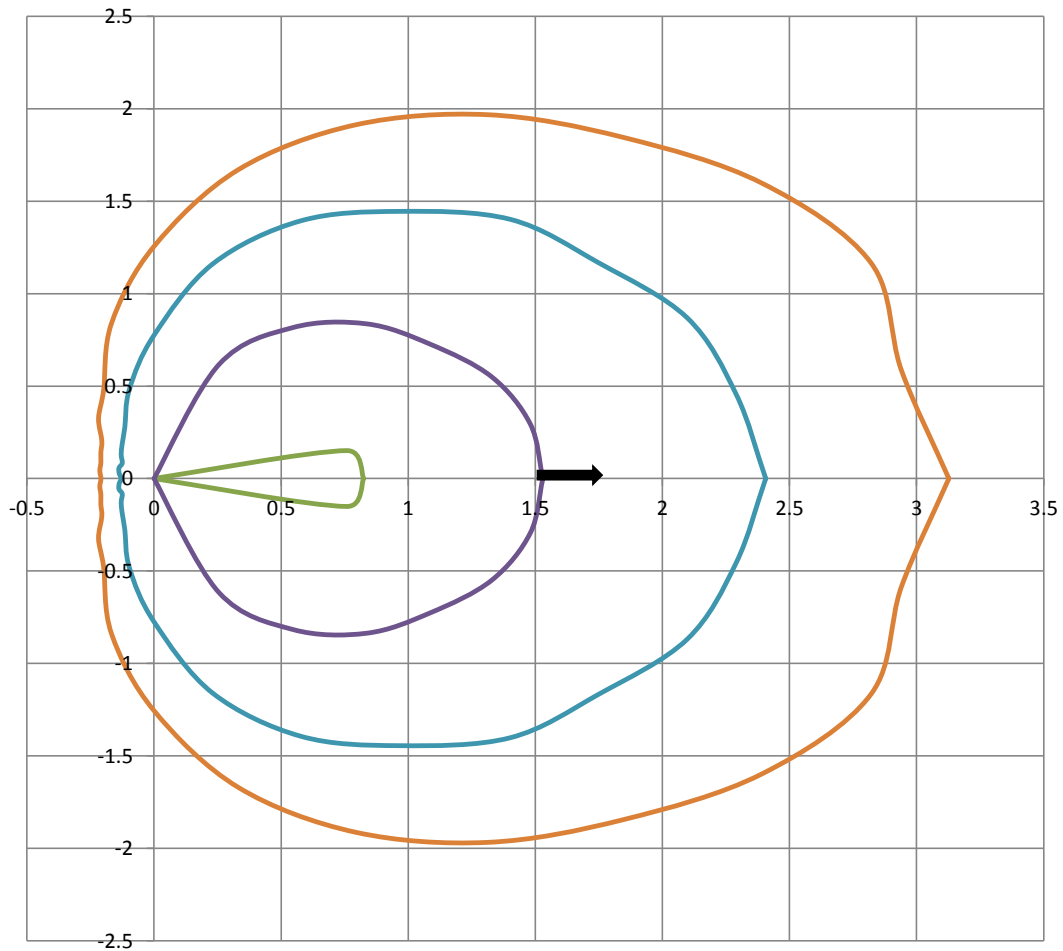
#### Cone of Light Tabulation

Mounting Height (Feet)		Footcandles at Nadir	Diameter (Feet)
4.00		1.64	10.6
6.00		0.728	15.9
8.00		0.410	21.3
10.0		0.262	26.6
12.0		0.182	31.9
14.0		0.134	37.2
16.0		0.102	42.5



## 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