



## Distribution - Goniophotometer

### Distribution Test Conditions

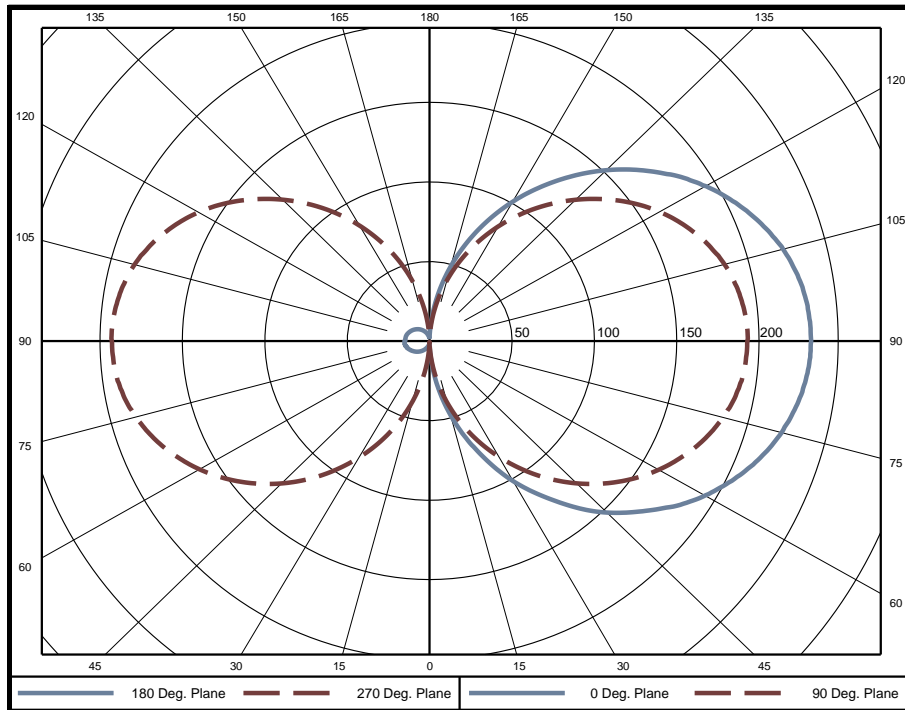
Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.3 °C	120.0 VAC	0.1389 A	16.62 W	0.997	60 Hz	4.77 %

### Summary of Results

**Spacing Criteria**  
 0-180: 13.69  
 90-270: 12.85

**Total Lumen Output:** 1546 Lumens  
**Luminaire Efficacy:** 93.0 lm/w  
**Maximum Candela:** 252 Candela

### Polar Plot



### Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	0.13	0.0%	60-65	68.27	4.4%	120-125	61.21	4.0%
5-10	1.11	0.1%	65-70	74.67	4.8%	125-130	53.30	3.4%
10-15	3.24	0.2%	70-75	80.17	5.2%	130-135	45.19	2.9%
15-20	6.56	0.4%	75-80	84.51	5.5%	135-140	37.26	2.4%
20-25	11.01	0.7%	80-85	87.47	5.7%	140-145	29.66	1.9%
25-30	16.49	1.1%	85-90	88.95	5.8%	145-150	22.61	1.5%
30-35	22.85	1.5%	90-95	89.11	5.8%	150-155	16.28	1.1%
35-40	29.96	1.9%	95-100	87.64	5.7%	155-160	10.84	0.7%
40-45	37.60	2.4%	100-105	84.76	5.5%	160-165	6.44	0.4%
45-50	45.47	2.9%	105-110	80.52	5.2%	165-170	3.15	0.2%
50-55	53.42	3.5%	110-115	75.04	4.9%	170-175	1.05	0.1%
55-60	61.12	4.0%	115-120	68.53	4.4%	175-180	0.12	0.0%

Zone	Lumens	% of Luminaire
0-40	91	5.9%
0-60	289	18.7%
0-90	773	50.0%
90-180	773	50.0%



**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	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	12.9	14.3	14.0	12.4	9.9	7.1	4.2	2.5	2.4	2.5	4.2	7.1	9.9	12.4	14.0
	10	29.2	32.2	32.5	29.6	24.0	17.3	10.1	4.4	2.8	4.4	10.1	17.3	24.0	29.6	32.5
	15	46.8	51.0	51.7	47.4	38.9	28.1	16.5	6.8	3.5	6.8	16.5	28.1	38.9	47.4	51.7
	20	64.6	70.2	71.4	65.6	53.8	39.2	23.0	9.3	4.5	9.3	23.0	39.2	53.8	65.6	71.4
	25	82.8	89.5	91.0	83.8	69.0	50.3	29.6	11.8	5.5	11.8	29.6	50.3	69.0	83.8	91.0
	30	101.5	108.5	110.3	101.9	83.9	61.3	36.0	14.2	6.5	14.2	36.0	61.3	83.9	101.9	110.3
	35	118.4	127.2	129.4	119.5	98.6	72.1	42.4	16.6	7.5	16.6	42.4	72.1	98.6	119.5	129.4
	40	135.8	145.4	147.9	136.8	113.0	82.6	48.6	18.9	8.6	18.9	48.6	82.6	113.0	136.8	147.9
	45	152.4	162.6	165.5	153.1	126.6	92.6	54.4	21.1	9.5	21.1	54.4	92.6	126.6	153.1	165.5
	50	166.7	178.6	182.4	168.3	139.3	101.8	59.9	23.1	10.4	23.1	59.9	101.8	139.3	168.3	182.4
	55	181.3	193.7	197.4	182.5	150.9	110.4	64.9	25.0	11.2	25.0	64.9	110.4	150.9	182.5	197.4
	60	193.9	206.9	210.9	195.4	161.4	117.9	69.4	26.7	12.1	26.7	69.4	117.9	161.4	195.4	210.9
	65	204.9	218.3	222.8	206.4	170.5	124.6	73.3	28.2	12.8	28.2	73.3	124.6	170.5	206.4	222.8
	70	214.3	228.0	232.5	215.5	178.5	130.2	76.7	29.5	13.5	29.5	76.7	130.2	178.5	215.5	232.5
	75	221.9	235.7	240.6	223.2	184.6	134.8	79.4	30.6	13.9	30.6	79.4	134.8	184.6	223.2	240.6
	80	227.4	241.3	246.4	228.6	189.4	138.2	81.5	31.4	14.4	31.4	81.5	138.2	189.4	228.6	246.4
	85	231.0	244.5	249.6	231.8	192.2	140.1	82.6	31.9	14.6	31.9	82.6	140.1	192.2	231.8	249.6
	90	232.3	245.6	250.8	232.7	193.1	140.8	83.0	32.0	14.5	32.0	83.0	140.8	193.1	232.7	250.8
	95	231.2	245.4	250.6	232.5	192.5	140.2	82.6	31.6	14.1	31.6	82.6	140.2	192.5	232.5	250.6
	100	228.1	241.9	247.1	229.3	190.0	138.3	81.5	31.2	14.1	31.2	81.5	138.3	190.0	229.3	247.1
	105	222.9	236.3	241.6	224.1	185.6	135.2	79.8	30.6	13.9	30.6	79.8	135.2	185.6	224.1	241.6
	110	215.1	228.7	233.8	217.0	179.4	130.8	77.2	29.6	13.5	29.6	77.2	130.8	179.4	217.0	233.8
	115	205.7	218.9	223.6	207.6	171.4	125.2	73.9	28.4	13.1	28.4	73.9	125.2	171.4	207.6	223.6
	120	194.5	206.9	211.4	196.1	161.9	118.3	69.9	26.8	12.5	26.8	69.9	118.3	161.9	196.1	211.4
	125	181.7	192.7	197.0	182.9	151.0	110.4	65.2	25.1	11.9	25.1	65.2	110.4	151.0	182.9	197.0
	130	167.1	176.7	181.2	167.5	138.7	101.4	60.0	23.2	11.2	23.2	60.0	101.4	138.7	167.5	181.2
	135	151.8	160.1	163.7	151.8	125.6	92.1	54.4	21.2	10.4	21.2	54.4	92.1	125.6	151.8	163.7
	140	135.4	142.7	145.9	135.3	111.9	82.1	48.6	19.1	9.6	19.1	48.6	82.1	111.9	135.3	145.9
	145	118.4	124.5	127.4	118.1	97.6	71.6	42.5	16.8	8.7	16.8	42.5	71.6	97.6	118.1	127.4
	150	101.0	105.8	108.4	100.4	83.0	60.9	36.2	14.5	7.7	14.5	36.2	60.9	83.0	100.4	108.4
	155	83.2	86.6	88.9	82.3	68.0	49.9	29.7	12.1	6.6	12.1	29.7	49.9	68.0	82.3	88.9
	160	65.3	67.4	69.1	64.2	53.0	39.0	23.3	9.7	5.5	9.7	23.3	39.0	53.0	64.2	69.1
	165	47.4	48.2	49.5	46.0	38.0	28.0	16.7	7.2	4.4	7.2	16.7	28.0	38.0	46.0	49.5
	170	29.8	29.4	30.3	28.2	23.3	17.2	10.4	4.8	3.3	4.8	10.4	17.2	23.3	28.2	30.3
	175	13.3	11.8	12.1	11.2	9.4	7.0	4.5	2.7	2.5	2.7	4.5	7.0	9.4	11.2	12.1
	180	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5

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

Vertical Angle (Degrees)	0	45	90
	0	205	205
	45	4123	3061
	55	4405	3238
	65	4647	3375
	75	4858	3483
	85	5032	3565



### 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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50
1	92	85	79	73	84	78	72	67	64	60	56	52	49	46	40	38	36	30
2	81	71	63	55	74	65	57	51	53	47	42	42	38	34	32	29	26	21
3	73	61	51	43	66	55	47	40	45	38	33	35	30	26	27	23	19	15
4	66	52	43	35	59	48	39	32	39	32	26	30	25	21	23	19	15	11
5	60	46	36	29	54	42	33	26	34	27	22	27	21	17	20	16	12	9
6	55	41	31	24	49	37	28	22	30	23	18	24	18	14	18	13	10	7
7	50	36	27	21	45	33	25	19	27	20	15	21	16	12	16	12	8	6
8	46	33	24	18	42	30	22	16	24	18	13	19	14	10	14	10	7	5
9	43	29	21	15	39	27	19	14	22	16	11	17	12	9	13	9	6	4
10	40	27	19	13	36	24	17	12	20	14	10	16	11	8	12	8	5	3

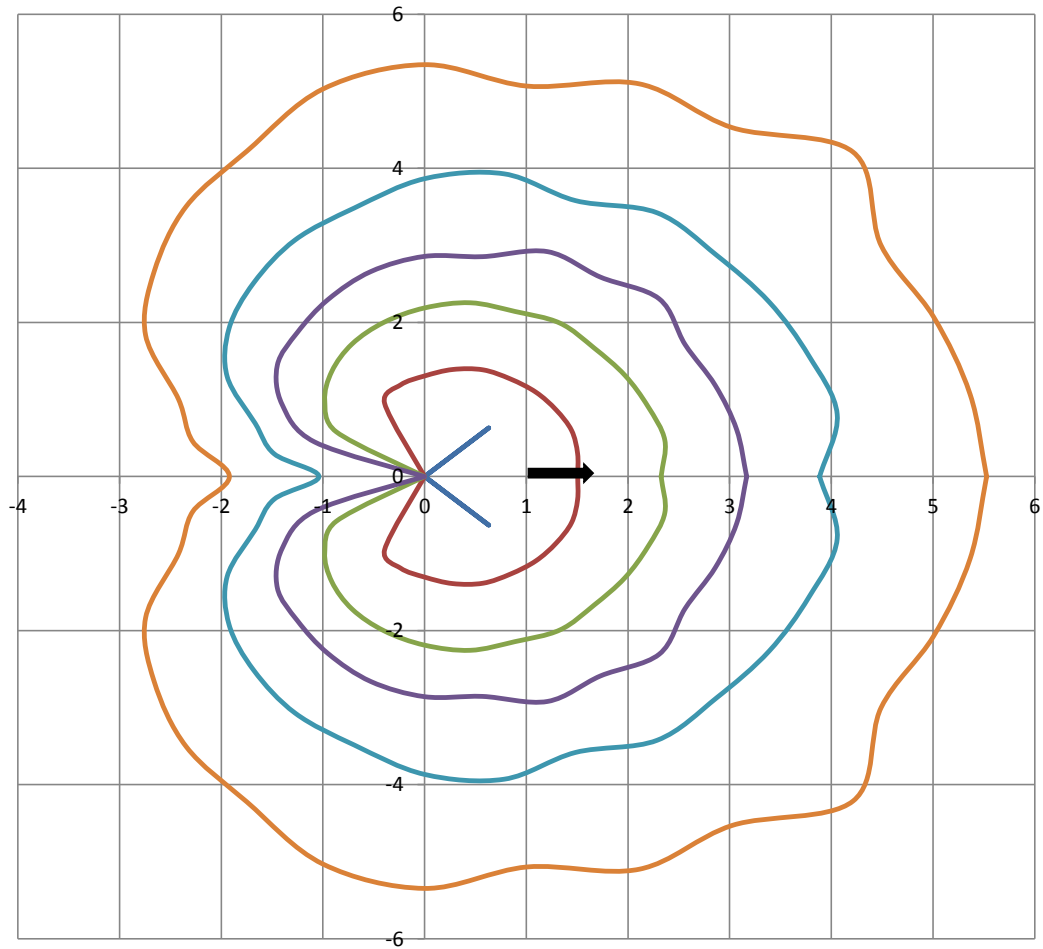
Beam and Field Information	
CIE Type:	Direct/Indirect
Center Beam Intensity:	1.4 Candela
Central Cone Intensity:	4 Candela
Beam Flux:	1545.7 Lumens
Beam Angle (0-180):	N/A Degrees
Beam Angle (90-270):	N/A Degrees
Field Angle (0-180):	N/A Degrees
Field Angle (90-270):	N/A Degrees

Cone of Light Tabulation			
Mounting Height (Feet)		Footcandles at Nadir	Diameter (Feet)
4.00		0.0866	48.5
6.00		0.0385	72.7
8.00		0.0217	96.9
10.0		0.0139	121
12.0		0.00962	145
14.0		0.00707	170
16.0		0.00541	194



# ISOFootcandle Plot

Mounting Height - 8 Feet



Grid Lines in Units of Mounting Height

