



## Distribution - Goniophotometer

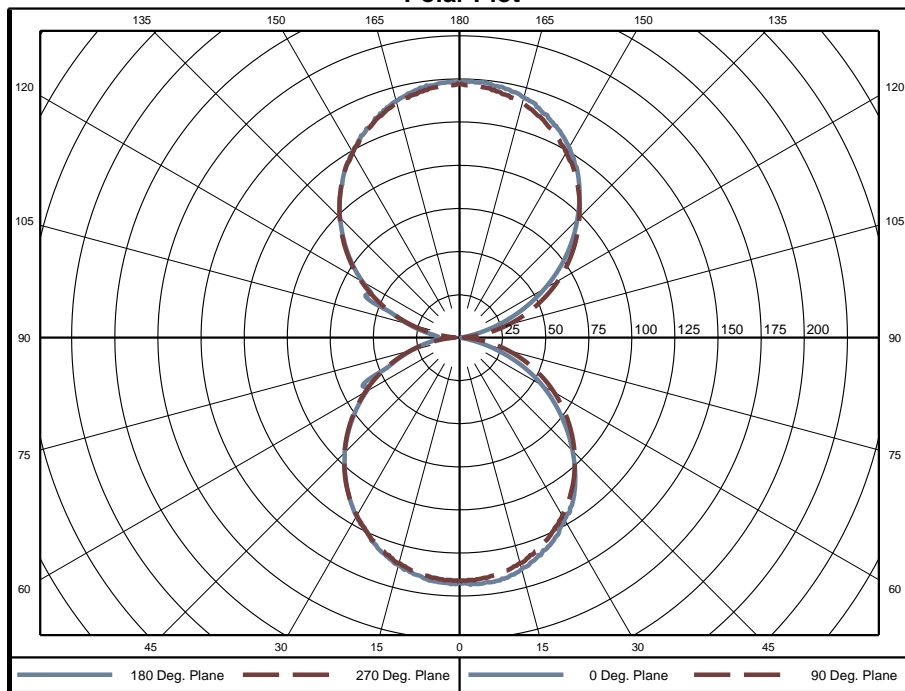
### Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.5 °C	120.1 VAC	0.1333 A	15.90 W	0.993	60 Hz	4.98 %

### Summary of Results

<b>Spacing Criteria</b>	<b>Total Lumen Output:</b>	823.3 Lumens
0-180: 1.28	<b>Luminaire Efficacy:</b>	51.8 lm/w
90-270: 1.25	<b>Maximum Candela:</b>	149 Candela
<b>Corrected UGR (Room Dimension: X=4H, Y=8H, Reflectances: 70/50/20%, S/H: 1)</b>		
<b>Crosswise: 11.2</b>	<b>Endwise: 11.6</b>	

### Polar Plot



### Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	3.39	0.4%	60-65	27.22	3.3%	120-125	32.33	3.9%
5-10	10.07	1.2%	65-70	22.11	2.7%	125-130	35.55	4.3%
10-15	16.43	2.0%	70-75	16.31	2.0%	130-135	37.51	4.6%
15-20	22.22	2.7%	75-80	10.66	1.3%	135-140	38.27	4.6%
20-25	27.25	3.3%	80-85	5.57	0.7%	140-145	37.72	4.6%
25-30	31.30	3.8%	85-90	3.07	0.4%	145-150	35.76	4.3%
30-35	34.39	4.2%	90-95	2.91	0.4%	150-155	32.55	4.0%
35-40	36.22	4.4%	95-100	5.52	0.7%	155-160	28.28	3.4%
40-45	36.76	4.5%	100-105	10.92	1.3%	160-165	23.06	2.8%
45-50	36.04	4.4%	105-110	16.71	2.0%	165-170	17.04	2.1%
50-55	34.07	4.1%	110-115	22.95	2.8%	170-175	10.46	1.3%
55-60	30.99	3.8%	115-120	28.15	3.4%	175-180	3.53	0.4%

Zone	Lumens	% of Luminaire
0-40	181	22.0%
0-60	319	38.8%
0-90	404	49.1%
90-180	419	50.9%



**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	142.0	142.0	142.0	142.0	142.0	142.0	142.0	142.0	142.0	142.0	142.0	142.0	142.0	142.0	142.0	142.0
5	143.3	142.8	141.4	141.0	140.5	140.8	140.9	142.2	142.3	142.2	140.9	140.8	140.5	141.0	141.4	142.8
10	141.9	141.2	140.1	139.4	138.4	139.0	139.5	140.3	139.9	140.3	139.5	139.0	138.4	139.4	140.1	141.2
15	139.0	138.1	137.5	136.6	135.4	136.4	137.3	138.0	136.7	138.0	137.3	136.4	135.4	136.6	137.5	138.1
20	134.1	134.1	133.0	132.4	131.6	131.9	132.5	133.3	132.3	133.3	132.5	131.9	131.6	132.4	133.0	134.1
25	129.5	127.6	127.2	126.4	125.8	126.1	126.6	127.3	125.5	127.3	126.6	126.1	125.8	126.4	127.2	127.6
30	121.7	121.3	120.8	120.2	119.2	120.3	120.7	120.7	119.5	120.7	120.7	120.3	119.2	120.2	120.8	121.3
35	115.0	113.4	113.4	112.7	112.0	112.6	113.1	113.3	111.8	113.3	113.1	112.6	112.0	112.7	113.4	113.4
40	104.5	103.5	104.4	104.3	103.6	104.1	104.5	104.8	103.2	104.8	104.5	104.1	103.6	104.3	104.4	103.5
45	92.8	92.6	94.4	95.0	94.4	94.8	95.3	95.7	94.3	95.7	95.3	94.8	94.4	95.0	94.4	92.6
50	80.6	80.7	83.4	85.0	84.5	84.7	85.4	85.4	84.1	85.4	85.4	84.7	84.5	85.0	83.4	80.7
55	68.1	68.3	71.5	74.1	74.1	74.2	74.7	74.9	73.4	74.9	74.7	74.2	74.1	74.1	71.5	68.3
60	55.5	55.4	59.2	62.7	63.3	63.3	64.0	63.8	62.4	63.8	64.0	63.3	63.3	62.7	59.2	55.4
65	42.1	41.9	46.3	50.9	52.2	51.9	52.4	58.0	59.5	58.0	52.4	51.9	52.2	50.9	46.3	41.9
70	27.7	28.3	33.0	38.9	40.8	40.4	40.1	40.5	39.7	40.5	40.1	40.4	40.8	38.9	33.0	28.3
75	14.4	15.3	20.0	26.7	29.4	28.5	31.3	30.1	29.6	30.1	31.3	28.5	29.4	26.7	20.0	15.3
80	3.4	4.4	8.0	14.5	18.5	17.4	19.2	20.6	20.3	20.6	19.2	17.4	18.5	14.5	8.0	4.4
85	1.3	1.4	1.7	4.3	8.4	9.6	10.9	13.0	13.7	13.0	10.9	9.6	8.4	4.3	1.7	1.4
90	1.1	1.3	1.5	2.0	2.4	4.5	7.7	11.5	12.9	11.5	7.7	4.5	2.4	2.0	1.5	1.3
95	1.3	1.5	1.8	4.2	7.5	9.8	10.1	12.5	14.2	12.5	10.1	9.8	7.5	4.2	1.8	1.5
100	3.6	5.6	9.1	14.8	17.8	16.6	18.2	19.9	21.5	19.9	18.2	16.6	14.8	9.1	5.6	3.6
105	14.7	17.4	21.7	27.7	29.7	28.0	34.9	29.6	31.2	29.6	34.9	28.0	29.7	27.7	21.7	17.4
110	28.2	31.1	35.6	40.8	42.0	40.5	39.7	40.5	42.2	40.5	39.7	40.5	42.0	40.8	35.6	31.1
115	42.7	45.4	49.6	53.8	54.2	53.0	52.0	58.0	59.4	58.0	52.0	53.0	54.2	53.8	49.6	45.4
120	57.1	59.6	63.3	66.5	66.2	65.2	64.6	64.1	64.9	64.1	64.6	65.2	66.2	66.5	63.3	59.6
125	71.2	73.3	76.3	78.4	77.6	76.8	76.2	75.9	76.7	75.9	76.2	76.8	77.6	78.4	76.3	73.3
130	84.4	86.0	88.3	89.4	88.2	87.8	87.1	87.0	87.6	87.0	87.1	87.8	88.2	89.4	88.3	86.0
135	96.6	98.1	99.6	99.7	98.3	98.0	97.5	97.6	98.0	97.6	97.5	98.0	98.3	99.7	99.6	98.1
140	108.3	109.4	110.2	109.3	107.9	107.8	107.5	107.5	107.8	107.5	107.5	107.8	107.9	109.3	110.2	109.4
145	119.0	119.6	118.8	118.3	116.6	116.9	116.6	116.7	116.7	116.7	116.6	116.9	116.6	118.3	118.8	119.6
150	127.4	127.4	126.4	125.6	123.9	124.2	124.0	124.3	124.3	124.3	124.0	124.2	123.9	125.6	126.4	127.4
155	134.2	134.2	133.7	131.9	130.4	131.0	130.9	131.5	130.9	131.5	130.9	131.0	130.4	131.9	133.7	134.2
160	139.6	139.8	139.0	137.3	136.5	137.0	136.3	137.3	136.7	137.3	136.3	137.0	136.5	137.3	139.0	139.8
165	144.4	143.8	142.9	141.8	140.8	140.9	141.3	142.0	142.1	142.0	141.3	140.9	140.8	141.8	142.9	143.8
170	147.2	146.8	145.7	144.6	143.4	144.1	144.1	144.6	145.8	144.6	144.1	144.1	143.4	144.6	145.7	146.8
175	148.9	148.4	147.7	147.0	145.9	146.7	147.0	147.2	147.7	147.2	147.0	146.7	145.9	147.0	147.7	148.4
180	147.8	147.8	147.8	147.8	147.8	147.8	147.8	147.8	147.8	147.8	147.8	147.8	147.8	147.8	147.8	147.8

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

	0	45	90
0	3334	3334	3334
45	1422	1618	2704
55	1046	1251	2473
65	668	854	2161
75	243	403	1676
85	24	40	806

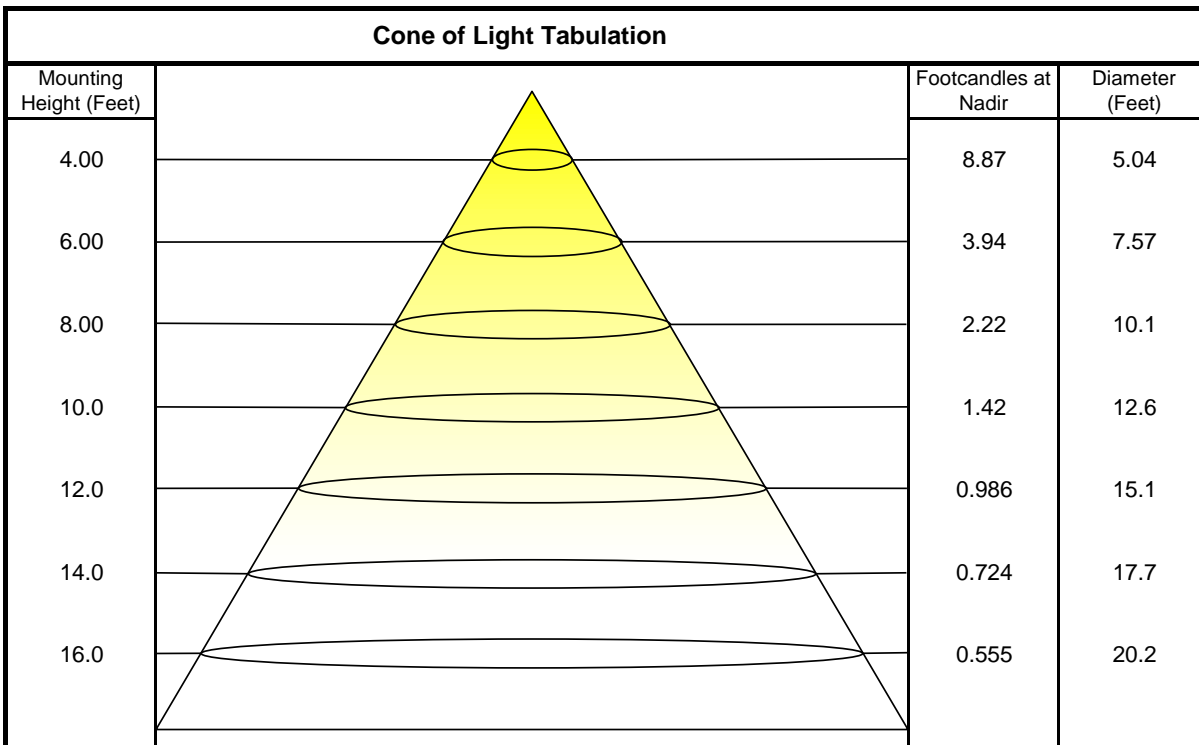


### Coefficients of Utilization - Zonal Cavity Method

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	68	68	68	55	55	55	49
1	97	93	89	86	90	86	82	79	72	70	68	60	58	57	49	47	46	41
2	89	81	75	70	81	75	69	65	63	59	56	53	50	47	43	41	39	34
3	81	71	64	58	74	66	59	54	56	51	47	46	43	40	38	35	33	29
4	74	63	55	49	68	58	51	46	49	44	40	41	37	34	34	31	28	25
5	68	56	48	42	62	52	45	39	44	38	34	37	33	29	30	27	24	21
6	62	50	42	36	57	46	39	34	40	34	30	33	29	26	27	24	21	19
7	58	45	37	31	53	42	35	30	36	30	26	30	26	23	25	22	19	16
8	53	41	33	28	49	38	31	26	33	27	23	28	23	20	23	19	17	15
9	50	37	30	25	46	35	28	23	30	24	21	25	21	18	21	18	15	13
10	46	34	27	22	43	32	25	21	28	22	19	23	19	16	19	16	14	12

Beam and Field Information	
CIE Type:	Direct/Indirect
Center Beam Intensity:	142.0 Candela
Central Cone Intensity:	142 Candela
Beam Flux:	608.1 Lumens
Beam Angle (0-180):	109.9 Degrees
Beam Angle (90-270):	112.9 Degrees
Field Angle (0-180):	159.5 Degrees
Field Angle (90-270):	164.1 Degrees





### ISOFootcandle Plot

Mounting Height - 8 Feet

