



Distribution - Goniophotometer

Distribution Test Conditions

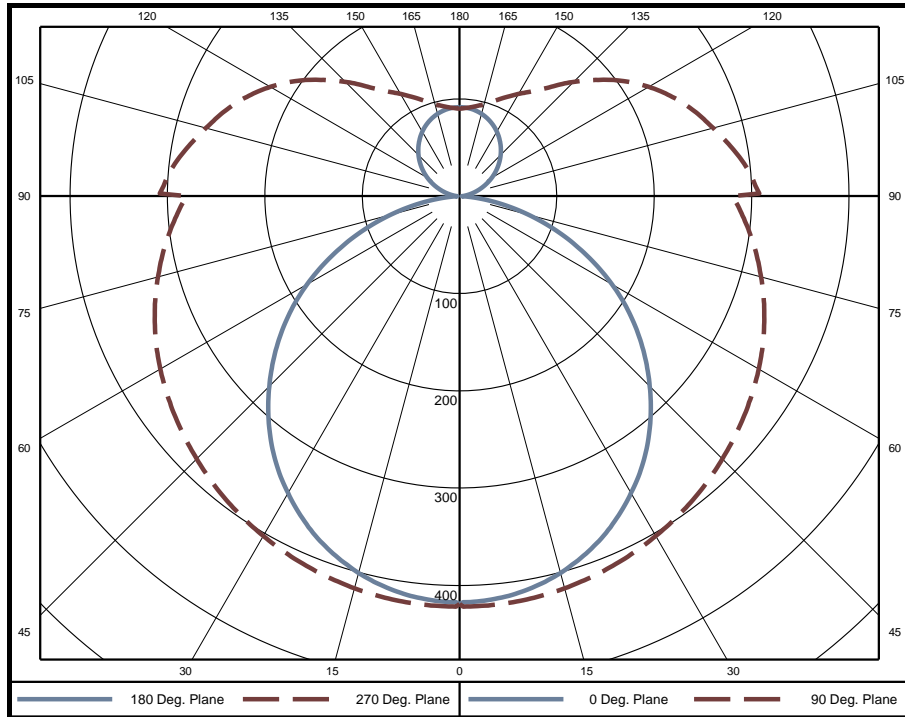
Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.6 °C	120.1 VAC	0.1955 A	23.39 W	0.996	60 Hz	5.37 %

Summary of Results

Spacing Criteria
 0-180: 1.25
 90-270: 1.45

Total Lumen Output: 2614 Lumens
Luminaire Efficacy: 111.8 lm/w
Maximum Candela: 422 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	10.0	0.4%	60-65	128.5	4.9%	120-125	61.4	2.3%
5-10	29.8	1.1%	65-70	123.7	4.7%	125-130	54.2	2.1%
10-15	48.8	1.9%	70-75	117.4	4.5%	130-135	47.1	1.8%
15-20	66.7	2.6%	75-80	110.1	4.2%	135-140	40.6	1.6%
20-25	82.9	3.2%	80-85	102.3	3.9%	140-145	34.9	1.3%
25-30	97.2	3.7%	85-90	94.9	3.6%	145-150	29.8	1.1%
30-35	109.2	4.2%	90-95	99.0	3.8%	150-155	24.9	1.0%
35-40	118.8	4.5%	95-100	93.7	3.6%	155-160	20.2	0.8%
40-45	125.8	4.8%	100-105	87.9	3.4%	160-165	15.5	0.6%
45-50	130.1	5.0%	105-110	81.9	3.1%	165-170	11.0	0.4%
50-55	131.9	5.0%	110-115	75.4	2.9%	170-175	6.6	0.3%
55-60	131.3	5.0%	115-120	68.5	2.6%	175-180	2.2	0.1%

Zone	Lumens	% of Luminaire
0-40	563	21.6%
0-60	1083	41.4%
0-90	1759	67.3%
90-180	855	32.7%



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	418.9	418.9	418.9	418.9	418.9	418.9	418.9	418.9	418.9	418.9	418.9	418.9	418.9	418.9	418.9
	5	415.1	417.2	418.2	417.6	421.2	417.6	418.2	417.2	415.1	417.2	418.2	417.6	421.2	417.6	418.2
	10	409.6	412.0	414.6	415.6	419.7	415.6	414.6	412.0	409.6	412.0	414.6	415.6	419.7	415.6	414.6
	15	400.6	404.2	408.9	412.3	417.0	412.3	408.9	404.2	400.6	404.2	408.9	412.3	417.0	412.3	408.9
	20	387.8	392.9	400.8	407.4	413.1	407.4	400.8	392.9	387.8	392.9	400.8	407.4	413.1	407.4	400.8
	25	371.5	378.6	390.5	401.2	408.6	401.2	390.5	378.6	371.5	378.6	390.5	401.2	408.6	401.2	390.5
	30	351.9	361.5	378.2	394.0	402.9	394.0	378.2	361.5	351.9	361.5	378.2	394.0	402.9	394.0	378.2
	35	330.1	341.7	364.5	385.7	396.6	385.7	364.5	341.7	330.1	341.7	364.5	385.7	396.6	385.7	364.5
	40	304.6	319.8	349.1	376.6	389.7	376.6	349.1	319.8	304.6	319.8	349.1	376.6	389.7	376.6	349.1
	45	276.0	295.8	332.7	366.7	381.6	366.7	332.7	295.8	276.0	295.8	332.7	366.7	381.6	366.7	332.7
	50	246.4	270.0	315.4	356.0	373.2	356.0	315.4	270.0	246.4	270.0	315.4	356.0	373.2	356.0	315.4
	55	214.5	243.2	297.7	345.3	364.3	345.3	297.7	243.2	214.5	243.2	297.7	345.3	364.3	345.3	297.7
	60	180.4	215.6	280.2	334.0	354.7	334.0	280.2	215.6	180.4	215.6	280.2	334.0	354.7	334.0	280.2
	65	144.3	188.0	263.2	322.2	344.3	322.2	263.2	188.0	144.3	188.0	263.2	322.2	344.3	322.2	263.2
	70	108.3	161.3	246.2	309.4	332.7	309.4	246.2	161.3	108.3	161.3	246.2	309.4	332.7	309.4	246.2
	75	72.8	136.8	230.0	296.4	320.4	296.4	230.0	136.8	72.8	136.8	230.0	296.4	320.4	296.4	230.0
	80	40.1	116.0	214.4	283.0	307.7	283.0	214.4	116.0	40.1	116.0	214.4	283.0	307.7	283.0	214.4
	85	13.7	98.5	199.9	269.2	294.0	269.2	199.9	98.5	13.7	98.5	199.9	269.2	294.0	269.2	199.9
	90	2.2	85.4	185.9	255.2	280.2	255.2	185.9	85.4	2.2	85.4	185.9	255.2	280.2	255.2	185.9
	95	4.9	88.7	195.5	270.9	297.8	270.9	195.5	88.7	4.9	88.7	195.5	270.9	297.8	270.9	195.5
	100	9.6	83.9	184.4	257.6	284.1	257.6	184.4	83.9	9.6	83.9	184.4	257.6	284.1	257.6	184.4
	105	16.1	79.0	175.5	244.6	269.8	244.6	175.5	79.0	16.1	79.0	175.5	244.6	269.8	244.6	175.5
	110	23.2	74.0	165.4	232.3	256.1	232.3	165.4	74.0	23.2	74.0	165.4	232.3	256.1	232.3	165.4
	115	30.7	70.8	154.2	218.2	241.0	218.2	154.2	70.8	30.7	70.8	154.2	218.2	241.0	218.2	154.2
	120	38.4	70.6	142.3	202.9	224.4	202.9	142.3	70.6	38.4	70.6	142.3	202.9	224.4	202.9	142.3
	125	45.8	72.4	131.0	185.7	205.9	185.7	131.0	72.4	45.8	72.4	131.0	185.7	205.9	185.7	131.0
	130	52.9	74.6	120.4	167.6	185.6	167.6	120.4	74.6	52.9	74.6	120.4	167.6	185.6	167.6	120.4
	135	59.6	76.8	112.4	149.9	165.9	149.9	112.4	76.8	59.6	76.8	112.4	149.9	165.9	149.9	112.4
	140	65.8	79.0	107.8	133.9	146.7	133.9	107.8	79.0	65.8	79.0	107.8	133.9	146.7	133.9	107.8
	145	71.4	81.5	104.0	123.4	131.3	123.4	104.0	81.5	71.4	81.5	104.0	123.4	131.3	123.4	104.0
	150	76.5	84.0	100.8	115.3	121.3	115.3	100.8	84.0	76.5	84.0	100.8	115.3	121.3	115.3	100.8
	155	80.9	86.1	97.7	108.3	112.0	108.3	97.7	86.1	80.9	86.1	97.7	108.3	112.0	108.3	97.7
	160	84.6	88.0	95.5	102.1	104.1	102.1	95.5	88.0	84.6	88.0	95.5	102.1	104.1	102.1	95.5
	165	87.5	89.5	93.9	97.6	97.8	97.6	93.9	89.5	87.5	89.5	93.9	97.6	97.8	97.6	93.9
	170	89.7	90.7	92.8	94.5	93.7	94.5	92.8	90.7	89.7	90.7	92.8	94.5	93.7	94.5	92.8
	175	90.9	91.4	92.0	92.5	91.1	92.5	92.0	91.4	90.9	91.4	92.0	92.5	91.1	92.5	92.0
	180	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5

Average Luminance (cd/m²)
Horizontal Angle (Degrees)

Vertical Angle (Degrees)	0	45	90
	0	6012	6012
	45	5238	4225
	55	4884	4162
	65	4264	4195
	75	3204	4323
	85	1256	3967



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	111	111	111	111	105	105	105	105	93	93	93	82	82	82	72	72	72	67
1	98	92	87	82	92	87	82	78	76	73	69	67	64	61	58	56	54	49
2	88	79	71	64	82	74	67	61	65	60	55	57	53	49	49	46	43	39
3	80	68	59	52	74	64	56	50	56	50	45	49	44	40	43	39	35	31
4	72	60	50	43	68	56	48	41	50	43	37	43	38	33	38	33	29	26
5	66	53	44	37	62	50	41	35	44	37	32	39	33	28	34	29	25	22
6	61	47	38	32	57	45	36	30	39	32	27	35	29	25	30	25	22	19
7	56	43	34	27	53	40	32	26	36	29	24	31	26	21	27	23	19	17
8	52	39	30	24	49	36	29	23	32	26	21	29	23	19	25	20	17	15
9	49	35	27	21	45	33	26	21	30	23	19	26	21	17	23	19	15	13
10	45	32	24	19	43	31	23	18	27	21	17	24	19	15	21	17	14	12

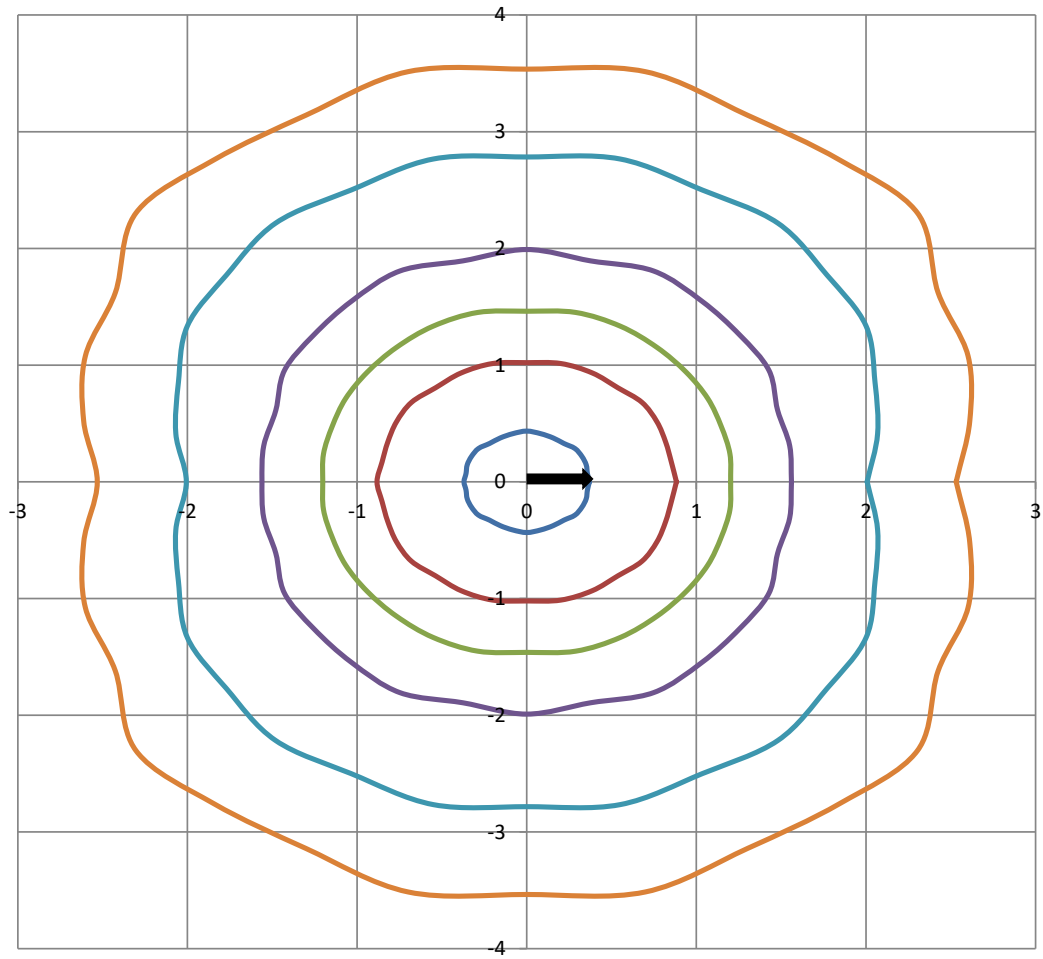
Beam and Field Information	
CIE Type:	Semi-Direct
Center Beam Intensity:	418.9 Candela
Central Cone Intensity:	419 Candela
Beam Flux:	1869.4 Lumens
Beam Angle (0-180):	111.6 Degrees
Beam Angle (90-270):	248.2 Degrees
Field Angle (0-180):	159.4 Degrees
Field Angle (90-270):	#REF! Degrees

Cone of Light Tabulation			
Mounting Height (Feet)		Footcandles at Nadir	Diameter (Feet)
4.00		26.2	5.39
6.00		11.6	8.08
8.00		6.54	10.8
10.0		4.19	13.5
12.0		2.91	16.2
14.0		2.14	18.8
16.0		1.64	21.5



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