



Distribution - Goniophotometer

Distribution Test Conditions

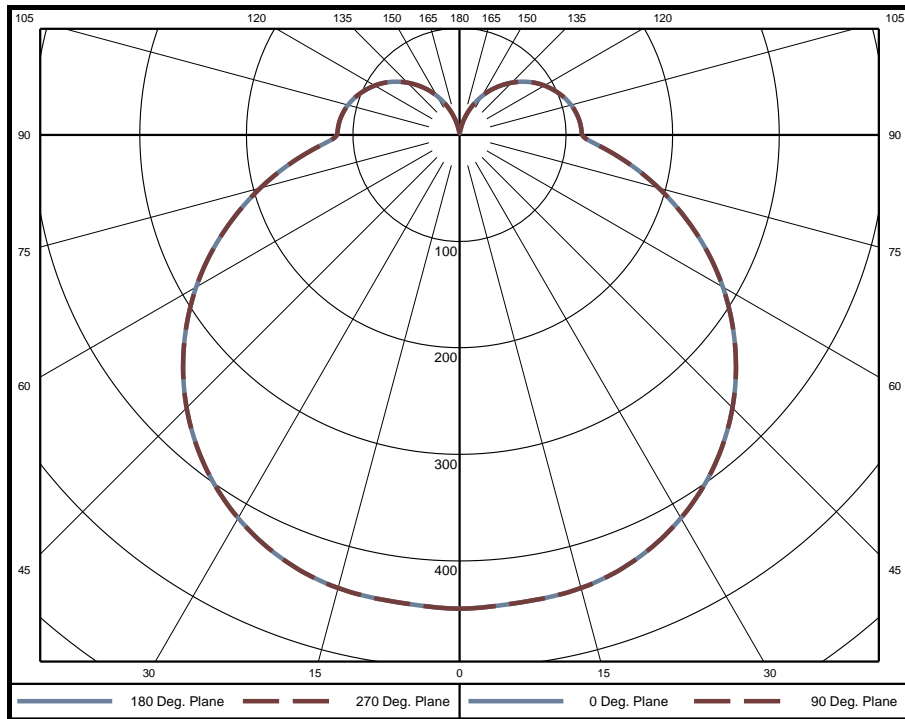
Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.0 °C	120.0 VAC	0.1964 A	23.27 W	0.987	60 Hz	8.09 %

Summary of Results

Spacing Criteria
 0-180: 1.39
 90-270: 1.39

Total Lumen Output: 2277 Lumens
Luminaire Efficacy: 97.9 lm/w
Maximum Candela: 443 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	10.6	0.5%	60-65	130.7	5.7%	120-125	40.3	1.8%
5-10	31.5	1.4%	65-70	120.7	5.3%	125-130	34.7	1.5%
10-15	52.2	2.3%	70-75	108.4	4.8%	130-135	29.0	1.3%
15-20	71.9	3.2%	75-80	94.6	4.2%	135-140	23.4	1.0%
20-25	90.1	4.0%	80-85	79.8	3.5%	140-145	18.1	0.8%
25-30	106.2	4.7%	85-90	66.2	2.9%	145-150	13.3	0.6%
30-35	119.7	5.3%	90-95	61.7	2.7%	150-155	8.9	0.4%
35-40	130.2	5.7%	95-100	60.4	2.7%	155-160	5.4	0.2%
40-45	137.4	6.0%	100-105	58.0	2.5%	160-165	2.6	0.1%
45-50	141.0	6.2%	105-110	54.6	2.4%	165-170	0.9	0.0%
50-55	140.9	6.2%	110-115	50.4	2.2%	170-175	0.1	0.0%
55-60	137.5	6.0%	115-120	45.5	2.0%	175-180	0.0	0.0%

Zone	Lumens	% of Luminaire
0-40	612	26.9%
0-60	1169	51.3%
0-90	1770	77.7%
90-180	507	22.3%



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	442.9	442.9	442.9	442.9	442.9	442.9	442.9	442.9	442.9	442.9	442.9	442.9	442.9	442.9	442.9
	5	441.5	441.5	441.5	441.5	441.5	441.5	441.5	441.5	441.5	441.5	441.5	441.5	441.5	441.5	441.5
	10	440.4	440.4	440.4	440.4	440.4	440.4	440.4	440.4	440.4	440.4	440.4	440.4	440.4	440.4	440.4
	15	438.5	438.5	438.5	438.5	438.5	438.5	438.5	438.5	438.5	438.5	438.5	438.5	438.5	438.5	438.5
	20	433.7	433.7	433.7	433.7	433.7	433.7	433.7	433.7	433.7	433.7	433.7	433.7	433.7	433.7	433.7
	25	425.3	425.3	425.3	425.3	425.3	425.3	425.3	425.3	425.3	425.3	425.3	425.3	425.3	425.3	425.3
	30	413.6	413.6	413.6	413.6	413.6	413.6	413.6	413.6	413.6	413.6	413.6	413.6	413.6	413.6	413.6
	35	399.1	399.1	399.1	399.1	399.1	399.1	399.1	399.1	399.1	399.1	399.1	399.1	399.1	399.1	399.1
	40	381.3	381.3	381.3	381.3	381.3	381.3	381.3	381.3	381.3	381.3	381.3	381.3	381.3	381.3	381.3
	45	360.5	360.5	360.5	360.5	360.5	360.5	360.5	360.5	360.5	360.5	360.5	360.5	360.5	360.5	360.5
	50	337.0	337.0	337.0	337.0	337.0	337.0	337.0	337.0	337.0	337.0	337.0	337.0	337.0	337.0	337.0
	55	311.2	311.2	311.2	311.2	311.2	311.2	311.2	311.2	311.2	311.2	311.2	311.2	311.2	311.2	311.2
	60	283.6	283.6	283.6	283.6	283.6	283.6	283.6	283.6	283.6	283.6	283.6	283.6	283.6	283.6	283.6
	65	253.9	253.9	253.9	253.9	253.9	253.9	253.9	253.9	253.9	253.9	253.9	253.9	253.9	253.9	253.9
	70	222.9	222.9	222.9	222.9	222.9	222.9	222.9	222.9	222.9	222.9	222.9	222.9	222.9	222.9	222.9
	75	192.1	192.1	192.1	192.1	192.1	192.1	192.1	192.1	192.1	192.1	192.1	192.1	192.1	192.1	192.1
	80	161.6	161.6	161.6	161.6	161.6	161.6	161.6	161.6	161.6	161.6	161.6	161.6	161.6	161.6	161.6
	85	132.5	132.5	132.5	132.5	132.5	132.5	132.5	132.5	132.5	132.5	132.5	132.5	132.5	132.5	132.5
	90	113.4	113.4	113.4	113.4	113.4	113.4	113.4	113.4	113.4	113.4	113.4	113.4	113.4	113.4	113.4
	95	112.1	112.1	112.1	112.1	112.1	112.1	112.1	112.1	112.1	112.1	112.1	112.1	112.1	112.1	112.1
	100	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
	105	106.6	106.6	106.6	106.6	106.6	106.6	106.6	106.6	106.6	106.6	106.6	106.6	106.6	106.6	106.6
	110	102.1	102.1	102.1	102.1	102.1	102.1	102.1	102.1	102.1	102.1	102.1	102.1	102.1	102.1	102.1
	115	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6
	120	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5
	125	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6
	130	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8
	135	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4
	140	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7
	145	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6
	150	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1
	155	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3
	160	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6
	165	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3
	170	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
	175	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	180	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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

Vertical Angle (Degrees)	0	45	90
	0	3639	3639
	45	4614	4614
	55	3774	3774
	65	3041	3041
	75	2357	2357
	85	1723	1723



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	114	114	114	114	109	109	109	109	99	99	99	90	90	90	82	82	82	78
1	101	95	90	85	96	91	86	82	82	79	75	75	72	69	68	65	63	59
2	91	81	74	67	86	78	71	65	70	65	60	64	59	55	58	54	51	47
3	82	71	62	55	78	67	59	53	61	54	49	55	50	45	50	46	42	39
4	75	62	53	46	71	59	51	44	54	47	41	49	43	38	44	39	35	32
5	68	55	46	39	65	52	44	37	48	40	35	43	37	32	39	34	30	27
6	63	49	40	33	59	47	38	32	43	36	30	39	33	28	36	30	26	24
7	58	44	35	29	55	42	34	28	39	32	26	35	29	25	32	27	23	21
8	54	40	31	25	51	38	30	25	35	28	23	32	26	22	30	24	20	18
9	50	37	28	23	48	35	27	22	32	26	21	30	24	20	27	22	18	16
10	47	34	26	20	45	32	25	20	30	23	19	27	22	18	25	20	17	15

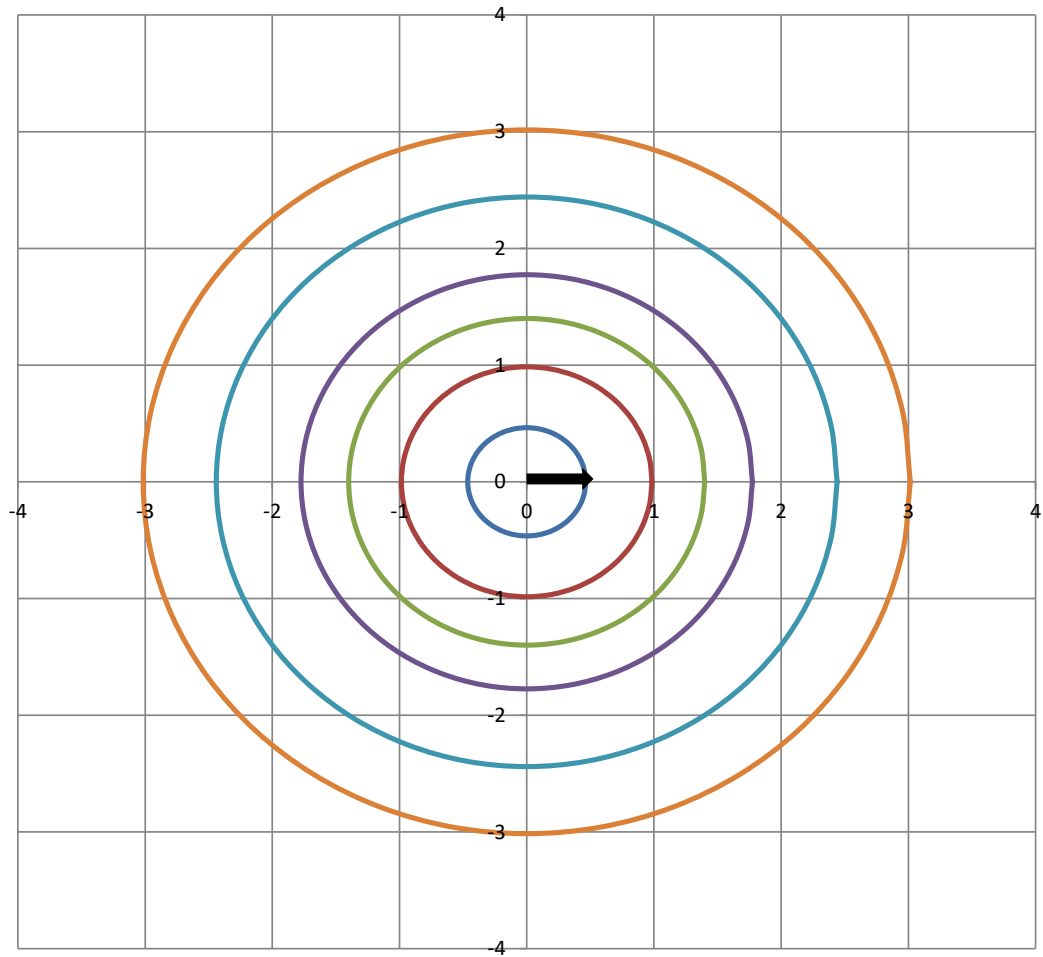
Beam and Field Information	
CIE Type:	Semi-Direct
Center Beam Intensity:	442.9 Candela
Central Cone Intensity:	442 Candela
Beam Flux:	1426.3 Lumens
Beam Angle (0-180):	140.5 Degrees
Beam Angle (90-270):	140.5 Degrees
Field Angle (0-180):	295.6 Degrees
Field Angle (90-270):	295.6 Degrees

Cone of Light Tabulation			
Mounting Height (Feet)		Footcandles at Nadir	Diameter (Feet)
4.00		27.7	5.56
6.00		12.3	8.34
8.00		6.92	11.1
10.0		4.43	13.9
12.0		3.08	16.7
14.0		2.26	19.5
16.0		1.73	22.2



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