



Distribution - Goniophotometer

Distribution Test Conditions

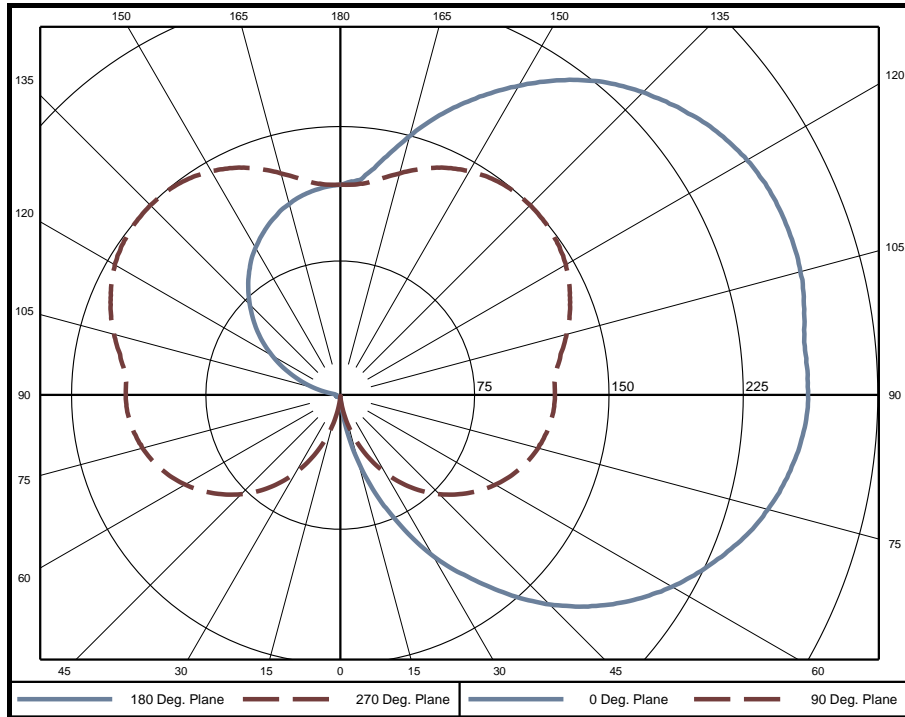
Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.5 °C	120.1 VAC	0.2020 A	23.89 W	0.985	60 Hz	7.65 %

Summary of Results

Spacing Criteria
 0-180: 16.94
 90-270: 12.97

Total Lumen Output: 1619 Lumens
Luminaire Efficacy: 67.8 lm/w
Maximum Candela: 276 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	0.04	0.0%	60-65	58.87	3.6%	120-125	75.29	4.7%
5-10	0.42	0.0%	65-70	64.80	4.0%	125-130	70.85	4.4%
10-15	1.68	0.1%	70-75	69.95	4.3%	130-135	65.35	4.0%
15-20	4.09	0.3%	75-80	74.14	4.6%	135-140	59.11	3.7%
20-25	7.67	0.5%	80-85	77.19	4.8%	140-145	52.20	3.2%
25-30	12.34	0.8%	85-90	78.90	4.9%	145-150	44.75	2.8%
30-35	17.91	1.1%	90-95	79.06	4.9%	150-155	37.03	2.3%
35-40	24.18	1.5%	95-100	79.16	4.9%	155-160	29.35	1.8%
40-45	31.01	1.9%	100-105	80.26	5.0%	160-165	21.92	1.4%
45-50	38.10	2.4%	105-110	80.80	5.0%	165-170	14.95	0.9%
50-55	45.23	2.8%	110-115	80.14	4.9%	170-175	8.61	0.5%
55-60	52.25	3.2%	115-120	78.38	4.8%	175-180	2.82	0.2%

Zone	Lumens	% of Luminaire
0-40	68	4.2%
0-60	235	14.5%
0-90	659	40.7%
90-180	960	59.3%



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	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
	5	4.8	4.4	3.4	3.1	2.6	2.0	1.7	1.3	1.1	1.3	1.7	2.0	2.6	3.1	3.4
	10	18.9	17.4	13.4	10.8	9.0	7.0	3.9	1.7	1.1	1.7	3.9	7.0	9.0	10.8	13.4
	15	38.1	36.4	30.2	21.3	18.2	14.4	8.0	2.3	1.0	2.3	8.0	14.4	18.2	21.3	30.2
	20	59.8	58.1	49.9	36.1	28.8	23.0	13.2	3.5	1.2	3.5	13.2	23.0	28.8	36.1	49.9
	25	81.2	81.0	71.0	51.4	39.5	31.6	18.8	4.9	1.2	4.9	18.8	31.6	39.5	51.4	71.0
	30	104.0	103.9	92.6	67.2	50.0	40.3	24.5	6.4	1.3	6.4	24.5	40.3	50.0	67.2	92.6
	35	123.7	125.9	113.9	82.8	60.0	48.7	30.1	8.2	1.5	8.2	30.1	48.7	60.0	82.8	113.9
	40	144.8	147.9	134.1	98.2	69.5	56.7	35.5	9.9	1.5	9.9	35.5	56.7	69.5	98.2	134.1
	45	165.4	168.4	153.5	113.0	78.1	64.1	40.6	11.5	1.7	11.5	40.6	64.1	78.1	113.0	153.5
	50	183.3	187.6	171.7	126.5	86.0	71.0	45.5	13.0	1.8	13.0	45.5	71.0	86.0	126.5	171.7
	55	199.6	205.2	188.5	139.5	93.3	77.5	50.0	14.5	1.9	14.5	50.0	77.5	93.3	139.5	188.5
	60	213.9	221.4	203.4	151.4	99.9	83.3	54.1	15.8	2.1	15.8	54.1	83.3	99.9	151.4	203.4
	65	226.3	235.8	217.1	162.0	105.6	88.3	57.7	17.2	2.1	17.2	57.7	88.3	105.6	162.0	217.1
	70	237.8	247.4	228.3	170.8	110.3	92.6	60.5	18.2	2.2	18.2	60.5	92.6	110.3	170.8	228.3
	75	247.0	257.4	237.6	178.7	114.3	96.2	62.9	19.3	2.4	19.3	62.9	96.2	114.3	178.7	237.6
	80	254.0	264.9	245.0	184.6	117.1	99.0	64.9	20.1	2.5	20.1	64.9	99.0	117.1	184.6	245.0
	85	259.1	270.0	250.3	188.8	119.0	100.9	66.3	20.7	2.5	20.7	66.3	100.9	119.0	188.8	250.3
	90	261.0	272.2	252.2	190.5	119.8	101.5	66.7	20.9	2.5	20.9	66.7	101.5	119.8	190.5	252.2
Vertical Angle (Degrees)	95	260.7	271.3	251.7	190.2	120.4	101.8	66.8	21.2	3.0	21.2	66.8	101.8	120.4	190.2	251.7
	100	262.8	273.2	253.5	192.8	124.7	105.5	70.4	25.1	7.3	25.1	70.4	105.5	124.7	192.8	253.5
	105	265.8	275.5	255.6	196.2	130.7	111.6	76.7	32.6	15.6	32.6	76.7	111.6	130.7	196.2	255.6
	110	266.6	275.0	255.7	198.2	136.3	117.3	83.4	40.9	24.6	40.9	83.4	117.3	136.3	198.2	255.7
	115	265.5	272.7	254.0	198.7	141.2	122.5	90.4	49.8	34.3	49.8	90.4	122.5	141.2	198.7	254.0
	120	262.1	268.7	250.6	198.3	145.4	127.2	96.7	58.6	44.0	58.6	96.7	127.2	145.4	198.3	250.6
	125	256.4	261.7	244.6	195.5	147.8	130.8	102.4	67.0	53.7	67.0	102.4	130.8	147.8	195.5	244.6
	130	248.3	252.5	236.5	191.2	149.4	133.3	107.1	74.7	62.7	74.7	107.1	133.3	149.4	191.2	236.5
	135	239.0	241.2	226.3	185.5	149.9	134.8	111.2	82.1	71.4	82.1	111.2	134.8	149.9	185.5	226.3
	140	228.2	228.5	215.0	179.2	149.2	135.8	114.8	89.1	79.9	89.1	114.8	135.8	149.2	179.2	215.0
	145	214.5	214.3	202.2	171.4	147.4	135.7	117.1	95.3	87.8	95.3	117.1	135.7	147.4	171.4	202.2
	150	199.3	198.5	187.7	162.7	144.1	134.2	118.8	100.8	94.7	100.8	118.8	134.2	144.1	162.7	187.7
	155	183.8	181.4	172.1	153.1	139.8	131.9	119.2	105.3	100.7	105.3	119.2	131.9	139.8	153.1	172.1
	160	167.2	164.1	156.5	142.8	134.4	128.5	119.1	109.2	106.0	109.2	119.1	128.5	134.4	142.8	156.5
	165	149.6	147.1	141.0	132.2	128.0	124.3	118.4	112.1	110.4	112.1	118.4	124.3	128.0	132.2	141.0
	170	132.8	131.5	127.5	124.2	121.9	120.3	117.4	114.7	113.9	114.7	117.4	120.3	121.9	124.2	127.5
	175	120.4	120.5	120.1	119.2	118.2	117.8	117.2	116.7	116.2	116.7	117.2	117.8	118.2	119.2	120.1
	180	117.5	117.5	117.5	117.5	117.5	117.5	117.5	117.5	117.5	117.5	117.5	117.5	117.5	117.5	117.5

Average Luminance (cd/m²)

Vertical Angle (Degrees)	Horizontal Angle (Degrees)			
		0	45	90
	0	86	86	86
	45	5087	4278	3511
	55	5658	4810	3990
	65	6119	5256	4433
	75	6578	5635	4855
	85	7003	5995	5283



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	105	105	105	105	96	96	96	96	78	78	78	62	62	62	48	48	48	41
1	91	84	79	73	82	76	71	67	61	57	54	47	44	42	34	32	30	24
2	81	71	63	56	72	64	57	51	51	45	41	39	35	31	27	24	22	16
3	72	61	52	44	65	55	47	40	43	37	32	32	28	24	23	19	16	12
4	65	53	43	36	58	47	39	33	37	31	26	28	23	19	19	16	13	9
5	60	46	37	30	53	41	33	27	33	26	21	24	20	16	17	13	10	7
6	54	41	32	25	49	37	29	23	29	23	18	22	17	13	15	11	9	5
7	50	36	28	21	45	33	25	19	26	20	15	19	15	11	13	10	7	4
8	46	33	24	18	41	30	22	17	23	17	13	18	13	10	12	9	6	3
9	43	30	21	16	38	27	19	14	21	15	11	16	11	8	11	8	5	3
10	40	27	19	14	36	24	17	13	19	14	10	15	10	7	10	7	5	2

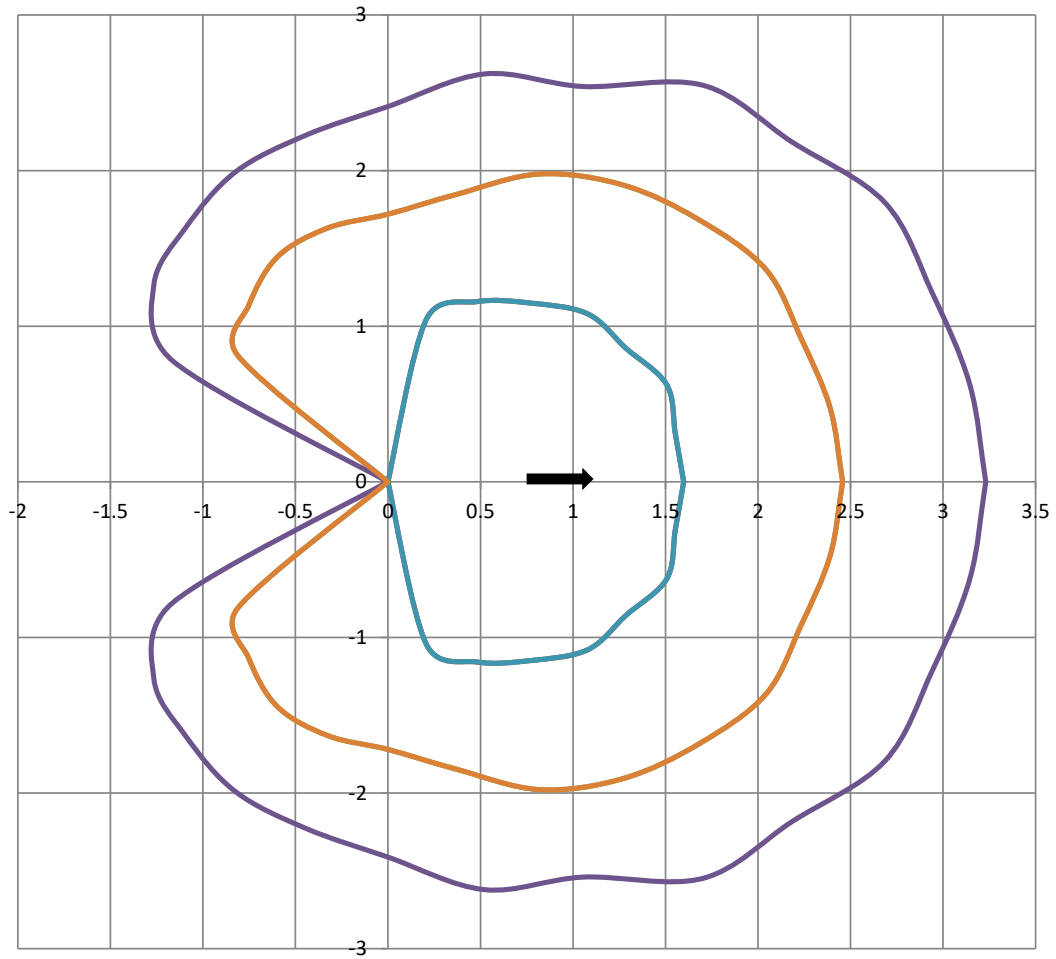
Beam and Field Information	
CIE Type:	Direct/Indirect
Center Beam Intensity:	0.8 Candela
Central Cone Intensity:	N/A Candela
Beam Flux:	1618.8 Lumens
Beam Angle (0-180):	N/A Degrees
Beam Angle (90-270):	N/A Degrees
Field Angle (0-180):	N/A Degrees
Field Angle (90-270):	N/A Degrees

Cone of Light Tabulation			
Mounting Height (Feet)		Footcandles at Nadir	Diameter (Feet)
4.00		0.0521	55.3
6.00		0.0232	82.9
8.00		0.0130	111
10.0		0.00834	138
12.0		0.00579	166
14.0		0.00426	194
16.0		0.00326	221



ISOFootcandle Plot

Mounting Height - 8 Feet



Grid Lines in Units of Mounting Height

