



Distribution - Goniophotometer

Distribution Test Conditions

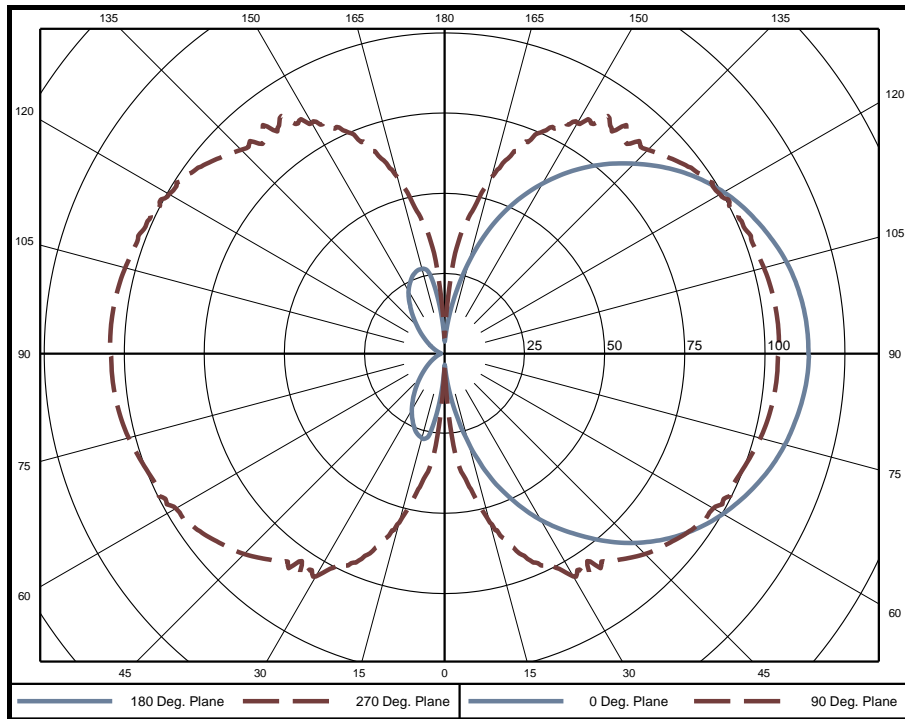
Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.7 °C	120.1 VAC	0.1343 A	16.00 W	0.993	60 Hz	5.58 %

Summary of Results

Spacing Criteria
 0-180: 7.08
 90-270: 6.89

Total Lumen Output: 1047 Lumens
Luminaire Efficacy: 65.4 lm/w
Maximum Candela: 148 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	0.32	0.0%	60-65	43.77	4.2%	120-125	40.62	3.9%
5-10	2.22	0.2%	65-70	46.96	4.5%	125-130	36.46	3.5%
10-15	5.03	0.5%	70-75	49.63	4.7%	130-135	32.07	3.1%
15-20	8.19	0.8%	75-80	51.81	4.9%	135-140	27.84	2.7%
20-25	11.63	1.1%	80-85	53.29	5.1%	140-145	24.15	2.3%
25-30	15.11	1.4%	85-90	54.05	5.2%	145-150	20.03	1.9%
30-35	19.08	1.8%	90-95	54.30	5.2%	150-155	16.00	1.5%
35-40	22.83	2.2%	95-100	53.63	5.1%	155-160	12.13	1.2%
40-45	27.22	2.6%	100-105	52.26	5.0%	160-165	8.46	0.8%
45-50	31.70	3.0%	105-110	50.19	4.8%	165-170	5.12	0.5%
50-55	35.99	3.4%	110-115	47.50	4.5%	170-175	2.23	0.2%
55-60	40.07	3.8%	115-120	44.31	4.2%	175-180	0.31	0.0%

Zone	Lumens	% of Luminaire
0-40	84	8.1%
0-60	219	21.0%
0-90	519	49.6%
90-180	528	50.4%



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	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
	5	8.1	17.2	28.2	29.2	25.9	22.7	17.9	13.9	12.8	13.9	17.9	22.7	25.9	29.2	28.2
	10	17.7	32.1	48.4	49.6	41.1	38.9	35.5	29.5	24.6	29.5	35.5	38.9	41.1	49.6	48.4
	15	29.0	44.4	57.7	60.3	54.6	49.5	39.4	36.9	27.3	36.9	39.4	49.5	54.6	60.3	57.7
	20	40.6	51.8	64.9	67.2	65.6	59.8	42.3	35.8	26.1	35.8	42.3	59.8	65.6	67.2	64.9
	25	50.7	60.8	70.6	73.8	73.0	67.9	45.9	33.1	23.5	33.1	45.9	67.9	73.0	73.8	70.6
	30	60.1	67.6	79.8	78.3	80.3	73.3	50.5	30.5	20.5	30.5	50.5	73.3	80.3	78.3	79.8
	35	68.3	78.0	84.1	86.9	79.2	79.5	55.1	28.7	17.2	28.7	55.1	79.5	79.2	86.9	84.1
	40	76.3	88.6	93.8	87.0	84.1	80.6	59.1	27.6	14.0	27.6	59.1	80.6	84.1	87.0	93.8
	45	83.7	98.7	103.8	94.7	88.5	85.3	62.8	27.3	11.1	27.3	62.8	85.3	88.5	94.7	103.8
	50	90.1	107.9	113.2	101.8	91.9	89.2	64.2	27.4	8.6	27.4	64.2	89.2	91.9	101.8	113.2
	55	95.7	116.2	121.2	108.0	95.0	92.0	67.0	27.7	6.6	27.7	67.0	92.0	95.0	108.0	121.2
	60	100.3	122.9	128.4	113.9	96.8	94.4	69.5	28.3	5.1	28.3	69.5	94.4	96.8	113.9	128.4
	65	104.1	128.6	134.3	118.8	98.9	96.3	71.6	29.0	3.8	29.0	71.6	96.3	98.9	118.8	134.3
	70	107.4	133.1	139.2	122.2	100.3	97.7	73.4	29.7	2.9	29.7	73.4	97.7	100.3	122.2	139.2
	75	110.0	136.9	143.2	125.2	102.0	99.0	75.0	30.4	2.3	30.4	75.0	99.0	102.0	125.2	143.2
	80	111.9	139.5	146.0	127.6	103.2	100.1	76.2	31.0	1.8	31.0	76.2	100.1	103.2	127.6	146.0
	85	113.2	141.1	147.5	129.0	103.9	100.6	77.0	31.4	1.3	31.4	77.0	100.6	103.9	129.0	147.5
	90	113.6	141.0	148.2	130.1	104.4	101.6	78.5	32.4	1.2	32.4	78.5	101.6	104.4	130.1	148.2
	95	113.3	140.6	147.7	129.6	104.5	101.6	78.4	32.5	1.2	32.5	78.4	101.6	104.5	129.6	147.7
	100	112.3	139.1	146.0	128.4	104.1	101.3	77.9	32.5	1.5	32.5	77.9	101.3	104.1	128.4	146.0
	105	110.5	136.5	143.3	126.6	103.2	100.7	76.9	32.3	2.0	32.3	76.9	100.7	103.2	126.6	143.3
	110	107.8	132.4	139.0	123.5	102.1	99.9	75.4	31.9	2.8	31.9	75.4	99.9	102.1	123.5	139.0
	115	104.6	128.3	133.8	119.4	101.2	98.2	73.6	31.4	3.9	31.4	73.6	98.2	101.2	119.4	133.8
	120	100.7	122.5	127.6	114.9	99.3	96.8	71.7	30.8	5.2	30.8	71.7	96.8	99.3	114.9	127.6
	125	95.9	114.5	120.6	109.2	97.6	94.8	69.5	30.4	7.0	30.4	69.5	94.8	97.6	109.2	120.6
	130	90.2	106.0	112.0	102.6	93.9	91.5	67.2	30.0	9.4	30.0	67.2	91.5	93.9	102.6	112.0
	135	83.8	96.6	102.3	97.4	89.9	87.3	66.0	29.8	12.1	29.8	66.0	87.3	89.9	97.4	102.3
	140	77.1	86.8	95.9	93.2	88.0	86.9	62.2	30.2	15.4	30.2	62.2	86.9	88.0	93.2	95.9
	145	69.6	76.7	92.6	88.4	89.7	82.4	58.9	31.2	19.0	31.2	58.9	82.4	89.7	88.4	92.6
	150	61.3	68.8	80.2	84.0	83.0	77.4	54.3	33.1	22.5	33.1	54.3	77.4	83.0	84.0	80.2
	155	52.2	58.6	75.2	77.9	77.8	71.8	49.4	34.8	25.1	34.8	49.4	71.8	77.8	77.9	75.2
	160	41.8	50.9	68.1	70.2	67.7	63.1	45.4	36.8	26.9	36.8	45.4	63.1	67.7	70.2	68.1
	165	29.9	39.6	59.3	62.6	57.0	52.4	42.0	37.8	27.4	37.8	42.0	52.4	57.0	62.6	59.3
	170	18.1	27.3	47.0	50.7	43.1	41.4	37.6	32.3	24.3	32.3	37.6	41.4	43.1	50.7	47.0
	175	8.3	12.7	22.4	27.3	26.2	24.9	21.4	17.7	12.8	17.7	21.4	24.9	26.2	27.3	22.4
	180	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7

Average Luminance (cd/m²)

Vertical Angle (Degrees)	Horizontal Angle (Degrees)			
		0	45	90
	0	759	759	759
	45	2659	3021	4538
	55	2731	3158	4488
	65	2775	3259	4456
	75	2828	3345	4528
	85	2898	3422	4682



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	86	80	75	84	79	74	69	65	61	57	53	50	47	41	39	37	31
2	82	72	64	57	75	66	59	52	54	49	44	43	39	35	33	30	27	22
3	74	62	53	45	67	56	48	42	46	40	34	37	32	28	28	24	21	16
4	67	54	44	37	60	49	40	34	40	33	28	32	27	22	24	20	17	13
5	61	47	38	31	55	43	34	28	35	28	23	28	23	18	21	17	14	10
6	56	42	32	26	50	38	30	24	31	25	20	25	20	16	19	15	12	8
7	51	37	28	22	46	34	26	20	28	21	17	22	17	13	17	13	10	7
8	47	34	25	19	43	31	23	18	25	19	14	20	15	11	15	11	8	6
9	44	30	22	17	40	28	20	15	23	17	13	18	14	10	14	10	7	5
10	41	28	20	15	37	25	18	13	21	15	11	17	12	9	13	9	7	4

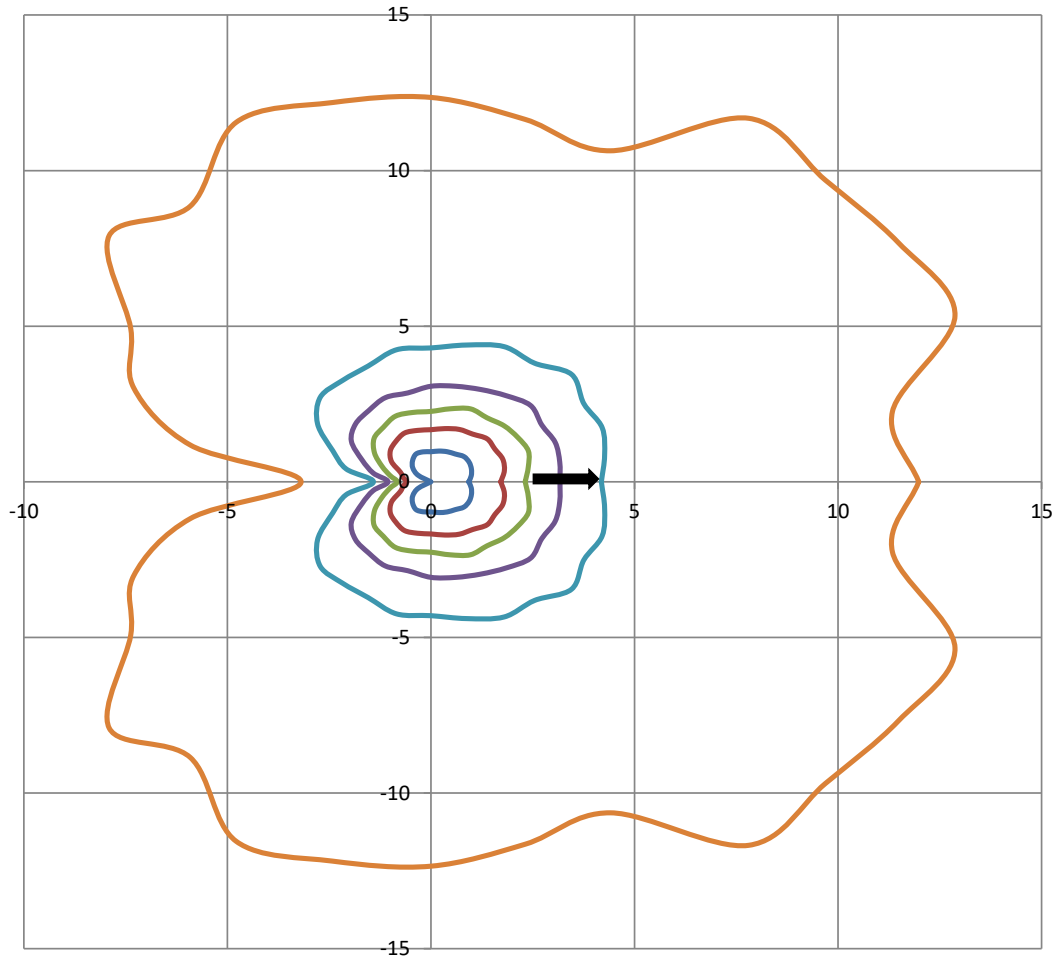
Beam and Field Information	
CIE Type:	Direct/Indirect
Center Beam Intensity:	4.4 Candela
Central Cone Intensity:	N/A Candela
Beam Flux:	1046.2 Lumens
Beam Angle (0-180):	N/A Degrees
Beam Angle (90-270):	N/A Degrees
Field Angle (0-180):	N/A Degrees
Field Angle (90-270):	N/A Degrees

Cone of Light Tabulation			
Mounting Height (Feet)		Footcandles at Nadir	Diameter (Feet)
4.00		0.276	26.9
6.00		0.122	40.4
8.00		0.0689	53.8
10.0		0.0441	67.3
12.0		0.0306	80.8
14.0		0.0225	94.2
16.0		0.0172	108



ISOFootcandle Plot

Mounting Height - 8 Feet



Grid Lines in Units of Mounting Height

— 0.5 fc — 0.2 fc — 0.1 fc — 0.05 fc — 0.02 fc — 0.001 fc