



Distribution - Goniophotometer

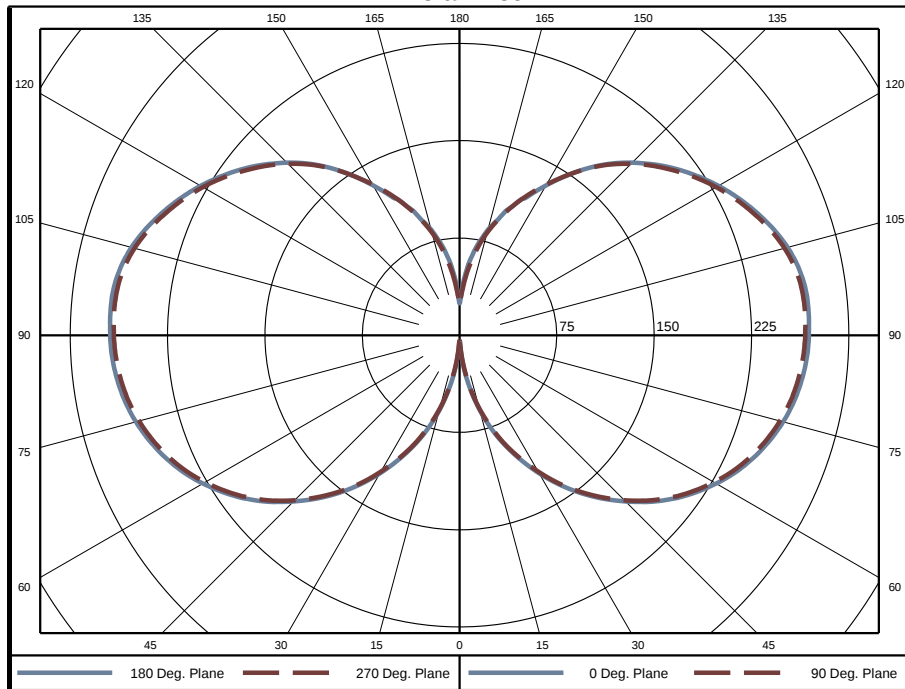
Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.6 °C	120.0 VAC	0.2002 A	23.76 W	0.989	60 Hz	5.88 %

Summary of Results

Spacing Criteria	Total Lumen Output:	2602 Lumens
0-180: 9.82	Luminaire Efficacy:	109.5 lm/w
90-270: 9.79	Maximum Candela:	270 Candela
Corrected UGR (Room Dimension: X=4H, Y=8H, Reflectances: 70/50/20%, S/H: 1)		
Crosswise: 21.1	Endwise: 21	

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	0.2	0.0%	60-65	113.0	4.3%	120-125	102.8	4.0%
5-10	1.8	0.1%	65-70	123.2	4.7%	125-130	90.9	3.5%
10-15	5.6	0.2%	70-75	131.7	5.1%	130-135	78.7	3.0%
15-20	11.4	0.4%	75-80	138.5	5.3%	135-140	66.4	2.6%
20-25	18.9	0.7%	80-85	143.2	5.5%	140-145	54.0	2.1%
25-30	28.0	1.1%	85-90	145.8	5.6%	145-150	42.2	1.6%
30-35	38.8	1.5%	90-95	146.3	5.6%	150-155	31.7	1.2%
35-40	50.5	1.9%	95-100	144.9	5.6%	155-160	22.7	0.9%
40-45	63.0	2.4%	100-105	140.7	5.4%	160-165	15.0	0.6%
45-50	76.1	2.9%	105-110	133.6	5.1%	165-170	8.7	0.3%
50-55	89.1	3.4%	110-115	124.5	4.8%	170-175	3.9	0.1%
55-60	101.4	3.9%	115-120	114.1	4.4%	175-180	0.8	0.0%

Zone	Lumens	% of Luminaire
0-40	155	6.0%
0-60	485	18.6%
0-90	1280	49.2%
90-180	1322	50.8%



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	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
	5	14.7	13.2	11.7	11.5	12.5	11.5	11.7	13.2	14.7	13.2	11.7	11.5	12.5	11.5	11.7
	10	36.9	35.1	34.9	34.7	34.9	34.7	34.9	35.1	36.9	35.1	34.9	34.7	34.9	34.7	34.9
	15	59.5	57.0	57.1	57.1	57.8	57.1	57.1	57.0	59.5	57.0	57.1	57.1	57.8	57.1	57.0
	20	81.4	78.8	78.8	78.7	79.5	78.7	78.8	78.8	81.4	78.8	78.7	79.5	78.7	78.8	78.8
	25	102.2	99.8	99.8	99.5	100.6	99.5	99.8	99.8	102.2	99.8	99.8	99.5	100.6	99.5	99.8
	30	123.0	120.8	120.6	120.5	121.3	120.5	120.6	120.8	123.0	120.8	120.6	120.5	121.3	120.5	120.8
	35	143.4	141.5	141.0	141.0	142.0	141.0	141.0	141.5	143.4	141.5	141.0	141.0	142.0	141.0	141.5
	40	162.8	160.6	160.1	160.0	161.2	160.0	160.1	160.6	162.8	160.6	160.1	160.0	161.2	160.0	160.6
	45	181.1	179.2	178.7	178.6	179.8	178.6	178.7	179.2	181.1	179.2	178.7	178.6	179.8	178.6	179.2
	50	199.0	196.9	196.2	196.2	197.3	196.2	196.2	196.9	199.0	196.9	196.2	196.2	197.3	196.2	196.9
	55	214.6	212.5	211.4	211.6	212.8	211.6	211.4	212.5	214.6	212.5	211.4	211.6	212.8	211.6	211.4
	60	228.4	226.4	225.4	225.4	226.4	225.4	225.4	226.4	228.4	226.4	225.4	225.4	226.4	225.4	226.4
	65	240.5	238.7	237.3	237.4	238.3	237.4	237.3	238.7	240.5	238.7	237.3	237.4	238.3	237.4	238.7
	70	250.2	248.6	247.0	247.1	247.9	247.1	247.0	248.6	250.2	248.6	247.0	247.1	247.9	247.1	248.6
	75	258.0	256.5	254.7	254.9	255.5	254.9	254.7	256.5	258.0	256.5	254.7	254.9	255.5	254.9	256.5
	80	263.9	262.3	260.3	260.6	261.1	260.6	260.3	262.3	263.9	262.3	260.3	260.6	261.1	260.6	262.3
	85	267.5	266.1	264.0	264.3	264.7	264.3	264.0	266.1	267.5	266.1	264.0	264.3	264.7	264.3	266.1
	90	269.2	267.9	265.8	266.1	266.5	266.1	265.8	267.9	269.2	267.9	265.8	266.1	266.5	266.1	267.9
	95	269.5	268.4	266.2	266.5	266.8	266.5	266.2	268.4	269.5	268.4	266.2	266.5	266.8	266.5	268.4
	100	267.4	266.4	264.3	264.6	264.8	264.6	264.3	266.4	267.4	266.4	264.3	264.6	264.8	264.6	267.4
	105	261.7	260.6	258.6	259.2	259.3	259.2	258.6	260.6	261.7	260.6	258.6	259.2	259.3	259.2	261.7
	110	252.7	251.8	249.9	250.6	250.6	250.6	249.9	251.8	252.7	251.8	249.9	250.6	250.6	250.6	252.7
	115	242.1	241.2	239.4	240.1	240.1	240.1	239.4	241.2	242.1	241.2	239.4	240.1	240.1	240.1	242.1
	120	230.3	229.5	227.7	228.4	228.5	228.4	227.7	229.5	230.3	229.5	227.7	228.4	228.5	228.4	230.3
	125	217.2	216.5	214.8	215.6	215.6	215.6	214.8	216.5	217.2	216.5	214.8	215.6	215.6	215.6	217.2
	130	203.3	202.4	201.0	201.8	201.7	201.8	201.0	202.4	203.3	202.4	201.0	201.8	201.7	201.8	203.3
	135	188.0	187.4	186.2	187.0	186.9	187.0	186.2	187.4	188.0	187.4	186.2	187.0	186.9	187.0	188.0
	140	171.3	171.0	170.0	170.9	170.9	170.9	170.0	171.0	171.3	171.0	170.0	170.9	170.9	170.9	171.3
	145	152.6	152.4	151.9	153.0	152.8	153.0	151.9	152.4	152.6	152.4	151.9	153.0	152.8	153.0	152.6
	150	133.3	133.6	133.3	134.5	134.5	134.5	133.3	133.6	133.3	133.6	133.3	134.5	134.5	134.5	133.3
	155	116.1	116.1	115.5	116.9	117.0	116.9	115.5	116.1	116.1	116.1	115.5	116.9	117.0	116.9	116.1
	160	100.5	99.3	98.0	99.4	99.6	99.4	98.0	99.3	100.5	99.3	98.0	99.4	99.6	99.4	100.5
	165	84.1	82.3	80.7	81.5	81.9	81.5	80.7	82.3	84.1	82.3	80.7	81.5	81.9	81.5	84.1
	170	66.5	64.8	62.3	62.0	62.1	62.0	62.3	64.8	66.5	64.8	62.3	62.0	62.1	62.0	64.8
	175	45.4	44.0	41.8	41.0	41.1	41.0	41.8	44.0	45.4	44.0	41.8	41.0	41.1	41.0	44.0
	180	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5

Average Luminance (cd/m²)

Vertical Angle (Degrees)	Horizontal Angle (Degrees)			
		0	45	90
	0	514	514	514
	45	3657	3608	3630
	55	3875	3817	3843
	65	4038	3984	4001
	75	4167	4113	4126
	85	4287	4230	4242



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	55	55	55	49
1	92	85	79	74	84	78	72	68	64	60	56	52	48	45	40	38	35	30
2	81	71	63	56	74	65	57	51	53	47	42	42	38	34	32	29	26	20
3	73	61	51	44	66	55	47	40	45	38	33	35	30	26	26	23	19	15
4	66	53	43	35	59	48	39	32	39	32	26	30	25	21	23	19	15	11
5	60	46	36	29	54	42	33	27	34	27	22	27	21	17	20	16	12	9
6	55	41	31	24	49	37	29	22	30	23	18	24	18	14	18	13	10	7
7	50	36	27	21	46	33	25	19	27	20	15	21	16	12	16	12	8	6
8	47	33	24	18	42	30	22	16	24	18	13	19	14	10	14	10	7	5
9	43	30	21	16	39	27	19	14	22	16	12	17	12	9	13	9	6	4
10	40	27	19	14	36	25	17	12	20	14	10	16	11	8	12	8	5	3

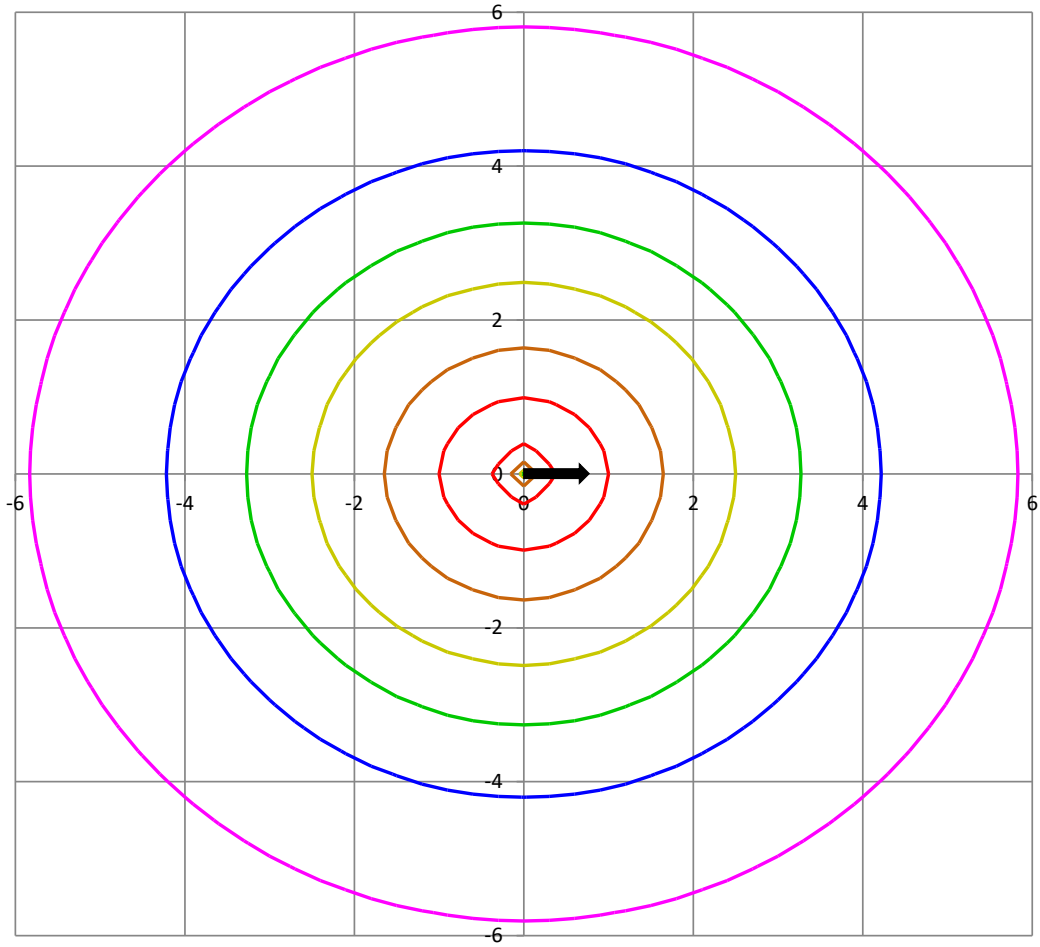
Beam and Field Information	
CIE Type:	Direct/Indirect
Center Beam Intensity:	4.2 Candela
Central Cone Intensity:	N/A Candela
Beam Flux:	2602.0 Lumens
Beam Angle (0-180):	N/A Degrees
Beam Angle (90-270):	N/A Degrees
Field Angle (0-180):	N/A Degrees
Field Angle (90-270):	N/A Degrees

Cone of Light Tabulation			
Mounting Height (Feet)		Footcandles at Nadir	Diameter (Feet)
4.00		0.260	39.2
6.00		0.116	58.8
8.00		0.0651	78.3
10.0		0.0417	97.9
12.0		0.0289	118
14.0		0.0213	137
16.0		0.0163	157



ISOFootcandle Plot

Mounting Height - 8 Feet



Grid Lines in Units of Mounting Height

