



Distribution - Goniophotometer

Distribution Test Conditions

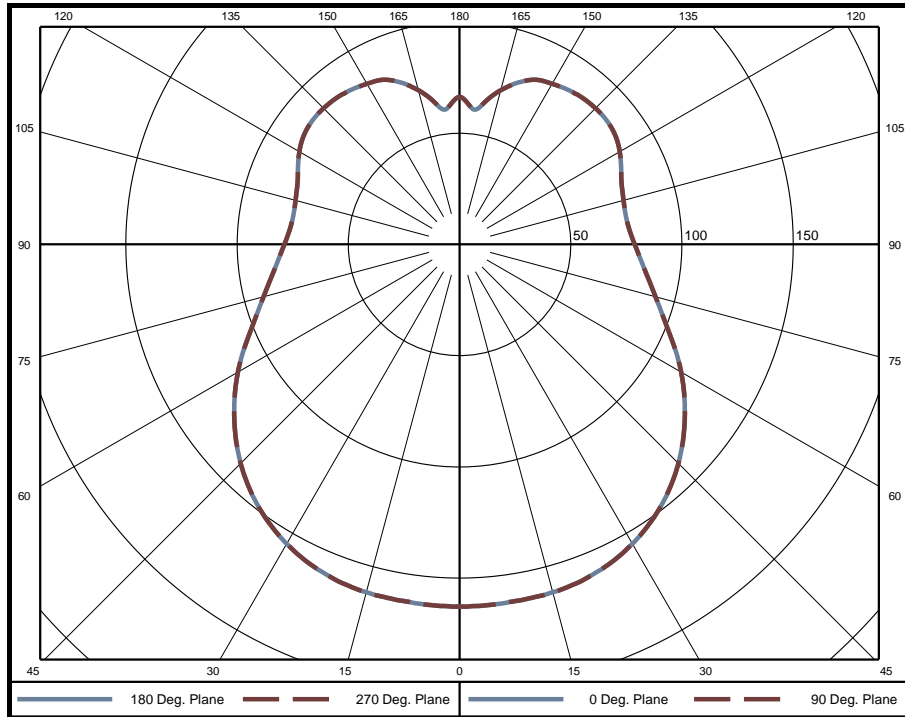
Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.3 °C	120.1 VAC	0.1073 A	12.40 W	0.963	60 Hz	10.9 %

Summary of Results

Spacing Criteria
 0-180: 1.42
 90-270: 1.42

Total Lumen Output: 1244 Lumens
Luminaire Efficacy: 100.3 lm/w
Maximum Candela: 163 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	3.89	0.3%	60-65	53.75	4.3%	120-125	39.01	3.1%
5-10	11.62	0.9%	65-70	51.51	4.1%	125-130	37.41	3.0%
10-15	19.23	1.5%	70-75	49.33	4.0%	130-135	34.96	2.8%
15-20	26.61	2.1%	75-80	47.36	3.8%	135-140	31.93	2.6%
20-25	33.51	2.7%	80-85	45.54	3.7%	140-145	28.50	2.3%
25-30	39.76	3.2%	85-90	43.93	3.5%	145-150	24.76	2.0%
30-35	45.15	3.6%	90-95	42.47	3.4%	150-155	20.90	1.7%
35-40	49.53	4.0%	95-100	41.35	3.3%	155-160	16.73	1.3%
40-45	52.75	4.2%	100-105	40.67	3.3%	160-165	12.32	1.0%
45-50	54.73	4.4%	105-110	40.20	3.2%	165-170	8.14	0.7%
50-55	55.48	4.5%	110-115	39.88	3.2%	170-175	4.45	0.4%
55-60	55.15	4.4%	115-120	39.70	3.2%	175-180	1.52	0.1%

Zone	Lumens	% of Luminaire
0-40	229	18.4%
0-60	447	36.0%
0-90	739	59.4%
90-180	505	40.6%



Candela Tabulation

Horizontal Angle (Degrees)

Vertical Angle (Degrees)	Horizontal 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	162.8	162.8	162.8	162.8	162.8	162.8	162.8	162.8	162.8	162.8	162.8	162.8	162.8	162.8	162.8	162.8
5	162.6	162.6	162.6	162.6	162.6	162.6	162.6	162.6	162.6	162.6	162.6	162.6	162.6	162.6	162.6	162.6
10	162.3	162.3	162.3	162.3	162.3	162.3	162.3	162.3	162.3	162.3	162.3	162.3	162.3	162.3	162.3	162.3
15	161.8	161.8	161.8	161.8	161.8	161.8	161.8	161.8	161.8	161.8	161.8	161.8	161.8	161.8	161.8	161.8
20	160.9	160.9	160.9	160.9	160.9	160.9	160.9	160.9	160.9	160.9	160.9	160.9	160.9	160.9	160.9	160.9
25	158.7	158.7	158.7	158.7	158.7	158.7	158.7	158.7	158.7	158.7	158.7	158.7	158.7	158.7	158.7	158.7
30	155.4	155.4	155.4	155.4	155.4	155.4	155.4	155.4	155.4	155.4	155.4	155.4	155.4	155.4	155.4	155.4
35	151.1	151.1	151.1	151.1	151.1	151.1	151.1	151.1	151.1	151.1	151.1	151.1	151.1	151.1	151.1	151.1
40	145.6	145.6	145.6	145.6	145.6	145.6	145.6	145.6	145.6	145.6	145.6	145.6	145.6	145.6	145.6	145.6
45	139.2	139.2	139.2	139.2	139.2	139.2	139.2	139.2	139.2	139.2	139.2	139.2	139.2	139.2	139.2	139.2
50	131.6	131.6	131.6	131.6	131.6	131.6	131.6	131.6	131.6	131.6	131.6	131.6	131.6	131.6	131.6	131.6
55	123.5	123.5	123.5	123.5	123.5	123.5	123.5	123.5	123.5	123.5	123.5	123.5	123.5	123.5	123.5	123.5
60	115.1	115.1	115.1	115.1	115.1	115.1	115.1	115.1	115.1	115.1	115.1	115.1	115.1	115.1	115.1	115.1
65	106.0	106.0	106.0	106.0	106.0	106.0	106.0	106.0	106.0	106.0	106.0	106.0	106.0	106.0	106.0	106.0
70	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
75	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2
80	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0
85	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8
90	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7
95	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6
100	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	75.8
105	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3
110	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6
115	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2
120	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1
125	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4
130	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4
135	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5
140	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0
145	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8
150	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
155	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6
160	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4
165	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7
170	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8
175	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5
180	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2

Average Luminance (cd/m²)

Horizontal Angle (Degrees)

Vertical Angle (Degrees)	Horizontal Angle (Degrees)		
	0	45	90
0	2231	2231	2231
45	1946	1946	1946
55	1780	1780	1780
65	1598	1598	1598
75	1460	1460	1460
85	1415	1415	1415



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	109	109	109	109	102	102	102	102	89	89	89	76	76	76	65	65	65	59
1	97	91	86	81	90	85	80	76	73	69	66	62	59	57	52	50	48	43
2	87	78	70	64	80	72	65	60	62	57	52	53	49	45	44	41	38	34
3	78	67	59	52	72	63	55	49	54	48	43	46	41	37	38	34	31	27
4	71	59	50	43	66	55	47	40	47	41	35	40	35	31	33	29	26	23
5	65	52	43	36	60	49	40	34	42	35	30	36	30	26	30	26	22	19
6	60	47	38	31	55	43	35	29	38	31	26	32	27	23	27	23	19	16
7	55	42	33	27	51	39	31	25	34	27	23	29	24	20	24	20	17	14
8	51	38	29	24	47	35	28	22	31	24	20	26	21	17	22	18	15	13
9	48	34	26	21	44	32	25	20	28	22	18	24	19	15	21	16	13	11
10	45	32	24	19	41	30	22	18	26	20	16	22	17	14	19	15	12	10

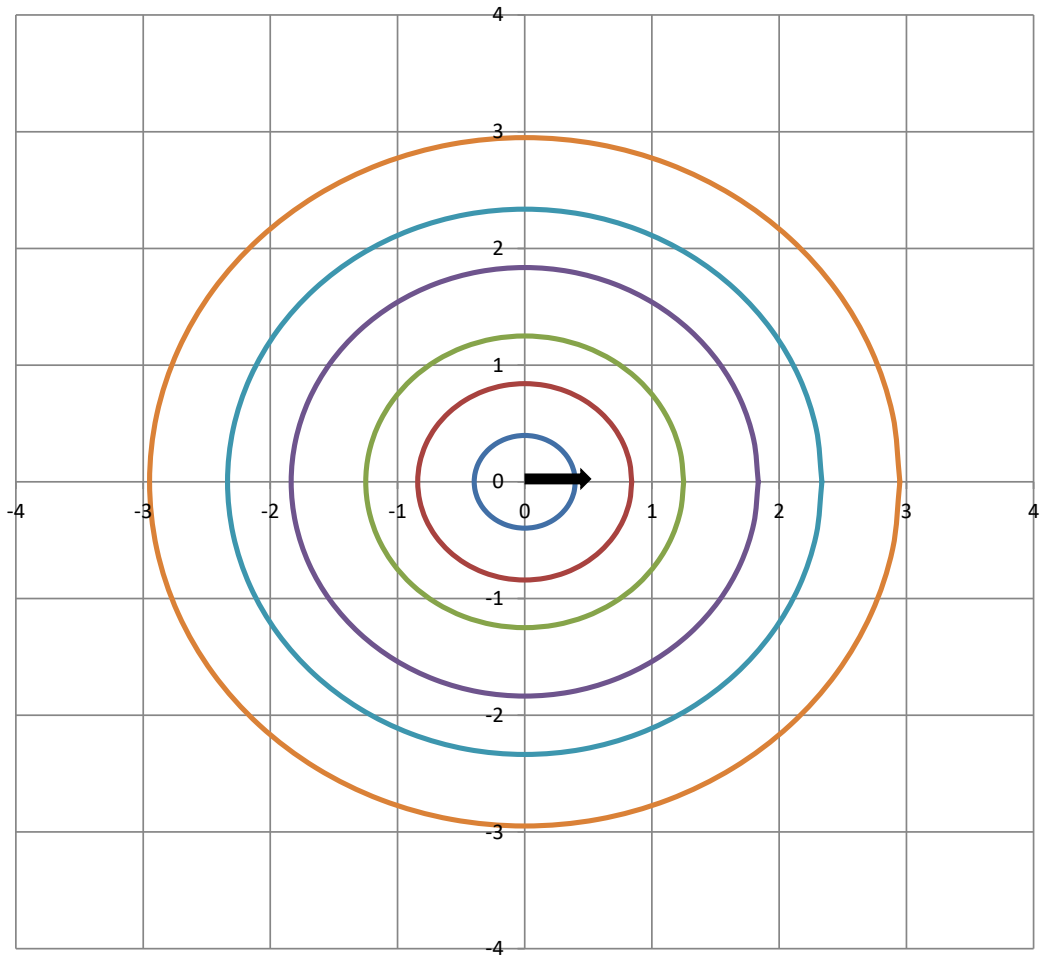
Beam and Field Information	
CIE Type:	Direct/Indirect
Center Beam Intensity:	162.8 Candela
Central Cone Intensity:	163 Candela
Beam Flux:	942.5 Lumens
Beam Angle (0-180):	171.2 Degrees
Beam Angle (90-270):	171.2 Degrees
Field Angle (0-180):	N/A Degrees
Field Angle (90-270):	N/A Degrees

Cone of Light Tabulation			
Mounting Height (Feet)		Footcandles at Nadir	Diameter (Feet)
4.00		10.2	5.70
6.00		4.52	8.55
8.00		2.54	11.4
10.0		1.63	14.2
12.0		1.13	17.1
14.0		0.831	19.9
16.0		0.636	22.8



ISOFootcandle Plot

Mounting Height - 8 Feet



Grid Lines in Units of Mounting Height

— 2 fc — 1 fc — 0.5 fc — 0.2 fc — 0.1 fc — 0.05 fc