



## Distribution - Goniophotometer

### Distribution Test Conditions

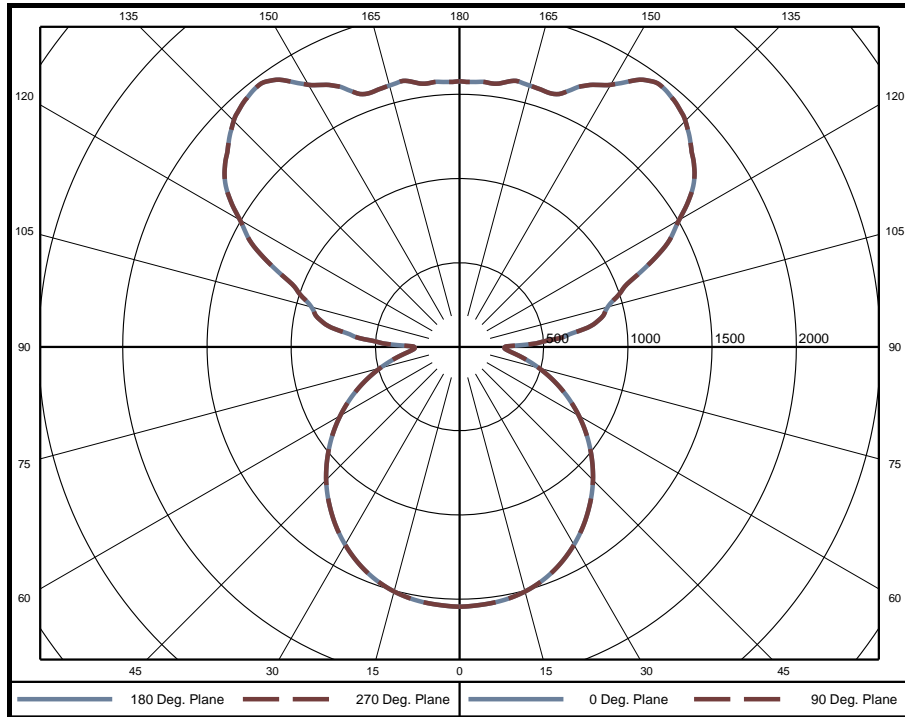
Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.2 °C	120.1 VAC	0.9629 A	114.5 W	0.990	60 Hz	6.71 %

### Summary of Results

**Spacing Criteria**  
 0-180: 1.31  
 90-270: 1.31

**Total Lumen Output:** 13720 Lumens  
**Luminaire Efficacy:** 119.8 lm/w  
**Maximum Candela:** 1958 Candela

### Polar Plot



### Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	36.8	0.3%	60-65	371.2	2.7%	120-125	743.7	5.4%
5-10	109.6	0.8%	65-70	330.9	2.4%	125-130	763.0	5.6%
10-15	179.9	1.3%	70-75	283.7	2.1%	130-135	747.6	5.4%
15-20	245.1	1.8%	75-80	232.9	1.7%	135-140	713.1	5.2%
20-25	303.0	2.2%	80-85	183.0	1.3%	140-145	651.4	4.7%
25-30	351.6	2.6%	85-90	150.0	1.1%	145-150	550.4	4.0%
30-35	389.7	2.8%	90-95	237.2	1.7%	150-155	443.8	3.2%
35-40	416.2	3.0%	95-100	388.6	2.8%	155-160	344.9	2.5%
40-45	431.2	3.1%	100-105	466.9	3.4%	160-165	264.0	1.9%
45-50	433.6	3.2%	105-110	510.2	3.7%	165-170	190.9	1.4%
50-55	423.7	3.1%	110-115	591.8	4.3%	170-175	113.1	0.8%
55-60	402.7	2.9%	115-120	687.8	5.0%	175-180	37.7	0.3%

Zone	Lumens	% of Luminaire
0-40	2032	14.8%
0-60	3723	27.1%
0-90	5275	38.4%
90-180	8446	61.6%



### 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	1544	1544	1544	1544	1544	1544	1544	1544	1544	1544	1544	1544	1544	1544	1544
	5	1538	1538	1538	1538	1538	1538	1538	1538	1538	1538	1538	1538	1538	1538	1538
	10	1527	1527	1527	1527	1527	1527	1527	1527	1527	1527	1527	1527	1527	1527	1527
	15	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505
	20	1469	1469	1469	1469	1469	1469	1469	1469	1469	1469	1469	1469	1469	1469	1469
	25	1420	1420	1420	1420	1420	1420	1420	1420	1420	1420	1420	1420	1420	1420	1420
	30	1358	1358	1358	1358	1358	1358	1358	1358	1358	1358	1358	1358	1358	1358	1358
	35	1288	1288	1288	1288	1288	1288	1288	1288	1288	1288	1288	1288	1288	1288	1288
	40	1208	1208	1208	1208	1208	1208	1208	1208	1208	1208	1208	1208	1208	1208	1208
	45	1121	1121	1121	1121	1121	1121	1121	1121	1121	1121	1121	1121	1121	1121	1121
	50	1025	1025	1025	1025	1025	1025	1025	1025	1025	1025	1025	1025	1025	1025	1025
	55	924	924	924	924	924	924	924	924	924	924	924	924	924	924	924
	60	818	818	818	818	818	818	818	818	818	818	818	818	818	818	818
	65	709	709	709	709	709	709	709	709	709	709	709	709	709	709	709
	70	598	598	598	598	598	598	598	598	598	598	598	598	598	598	598
	75	488	488	488	488	488	488	488	488	488	488	488	488	488	488	488
	80	384	384	384	384	384	384	384	384	384	384	384	384	384	384	384
	85	295	295	295	295	295	295	295	295	295	295	295	295	295	295	295
	90	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270
	95	602	602	602	602	602	602	602	602	602	602	602	602	602	602	602
	100	821	821	821	821	821	821	821	821	821	821	821	821	821	821	821
	105	911	911	911	911	911	911	911	911	911	911	911	911	911	911	911
	110	1044	1044	1044	1044	1044	1044	1044	1044	1044	1044	1044	1044	1044	1044	1044
	115	1307	1307	1307	1307	1307	1307	1307	1307	1307	1307	1307	1307	1307	1307	1307
	120	1506	1506	1506	1506	1506	1506	1506	1506	1506	1506	1506	1506	1506	1506	1506
	125	1699	1699	1699	1699	1699	1699	1699	1699	1699	1699	1699	1699	1699	1699	1699
	130	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
	135	1897	1897	1897	1897	1897	1897	1897	1897	1897	1897	1897	1897	1897	1897	1897
	140	1947	1947	1947	1947	1947	1947	1947	1947	1947	1947	1947	1947	1947	1947	1947
	145	1933	1933	1933	1933	1933	1933	1933	1933	1933	1933	1933	1933	1933	1933	1933
	150	1796	1796	1796	1796	1796	1796	1796	1796	1796	1796	1796	1796	1796	1796	1796
	155	1707	1707	1707	1707	1707	1707	1707	1707	1707	1707	1707	1707	1707	1707	1707
	160	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
	165	1606	1606	1606	1606	1606	1606	1606	1606	1606	1606	1606	1606	1606	1606	1606
	170	1597	1597	1597	1597	1597	1597	1597	1597	1597	1597	1597	1597	1597	1597	1597
	175	1580	1580	1580	1580	1580	1580	1580	1580	1580	1580	1580	1580	1580	1580	1580
	180	1577	1577	1577	1577	1577	1577	1577	1577	1577	1577	1577	1577	1577	1577	1577

### Average Luminance (cd/m<sup>2</sup>)

Horizontal Angle (Degrees)

Vertical Angle (Degrees)	0	45	90
	0	2487	2487
	45	3221	3221
	55	2432	2432
	65	1750	1750
	75	1176	1176
	85	720	720



### 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	104	104	104	104	95	95	95	95	77	77	77	61	61	61	46	46	46	38
1	94	90	85	82	85	81	78	74	66	63	61	52	50	48	39	37	36	30
2	85	78	71	66	77	70	65	60	57	53	50	45	42	40	33	32	30	25
3	78	68	60	54	70	62	55	50	50	45	41	39	36	33	29	27	25	20
4	71	60	52	45	64	54	47	42	44	39	35	35	31	28	26	23	21	17
5	65	53	45	39	58	48	41	36	39	34	30	31	27	24	23	20	18	15
6	59	47	39	33	54	43	36	31	35	30	26	28	24	21	21	18	16	13
7	55	43	34	29	50	39	32	27	32	26	22	25	21	18	19	16	14	11
8	51	38	31	25	46	35	28	23	29	24	20	23	19	16	17	15	12	10
9	47	35	27	22	43	32	25	21	26	21	18	21	17	14	16	13	11	9
10	44	32	25	20	40	29	23	18	24	19	16	19	16	13	15	12	10	8

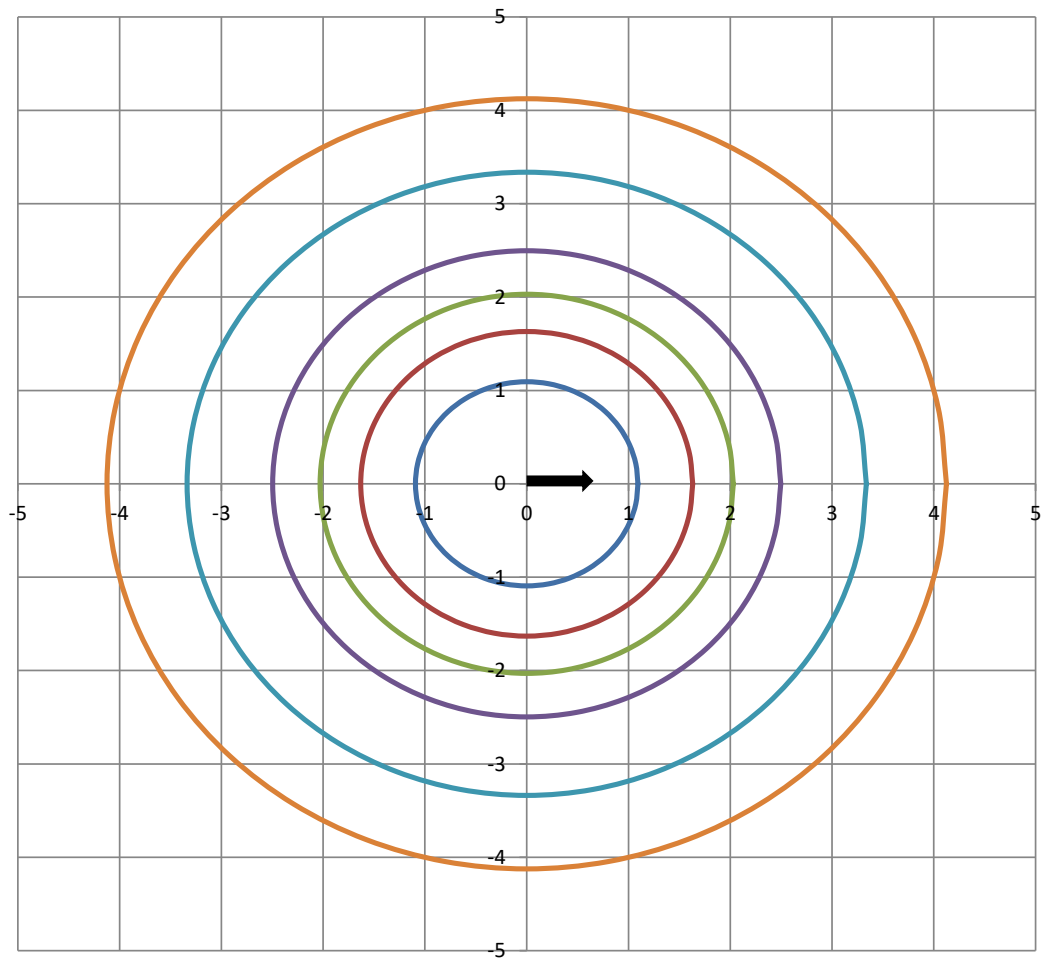
Beam and Field Information	
CIE Type:	Semi-Indirect
Center Beam Intensity:	1544 Candela
Central Cone Intensity:	1541 Candela
Beam Flux:	11832.3 Lumens
Beam Angle (0-180):	124.3 Degrees
Beam Angle (90-270):	124.3 Degrees
Field Angle (0-180):	NA Degrees
Field Angle (90-270):	NA Degrees

Cone of Light Tabulation			
Mounting Height (Feet)		Footcandles at Nadir	Diameter (Feet)
4.00		96.5	5.22
6.00		42.9	7.84
8.00		24.1	10.4
10.0		15.4	13.1
12.0		10.7	15.7
14.0		7.88	18.3
16.0		6.03	20.9



## 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