



## Distribution - Goniophotometer

### Distribution Test Conditions

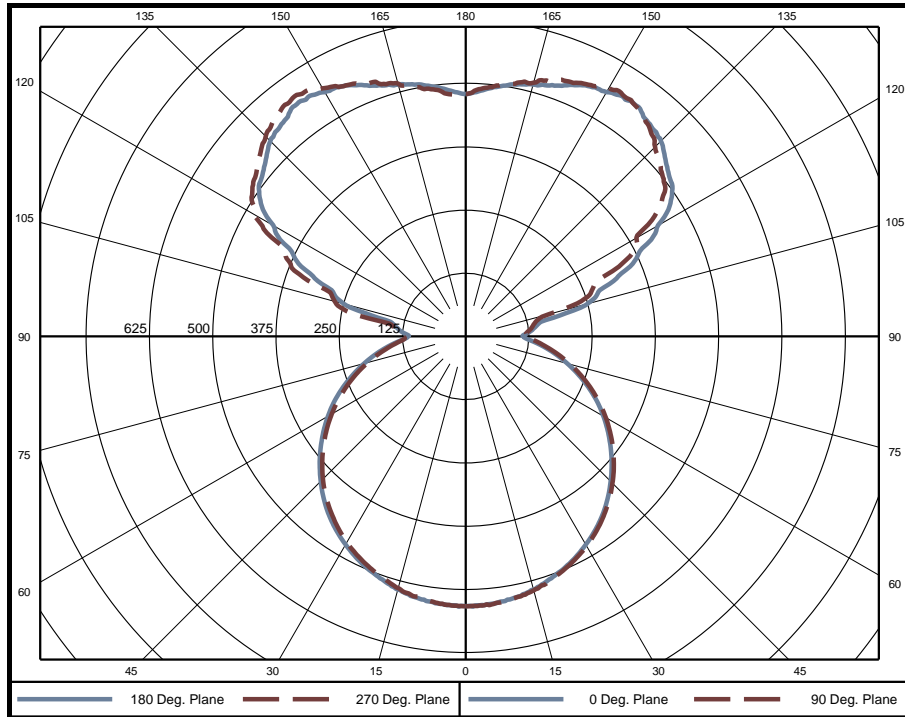
Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.0 °C	120.1 VAC	0.4824 A	57.39 W	0.991	60 Hz	6.01 %

### Summary of Results

**Spacing Criteria**  
 0-180: 1.33  
 90-270: 1.34

**Total Lumen Output:** 4566 Lumens  
**Luminaire Efficacy:** 79.6 lm/w  
**Maximum Candela:** 609 Candela

### Polar Plot



### Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	12.7	0.3%	60-65	144.2	3.2%	120-125	237.6	5.2%
5-10	37.8	0.8%	65-70	132.6	2.9%	125-130	236.0	5.2%
10-15	61.9	1.4%	70-75	118.3	2.6%	130-135	227.7	5.0%
15-20	84.3	1.8%	75-80	102.1	2.2%	135-140	213.6	4.7%
20-25	104.4	2.3%	80-85	84.9	1.9%	140-145	194.9	4.3%
25-30	122.1	2.7%	85-90	69.2	1.5%	145-150	171.0	3.7%
30-35	136.7	3.0%	90-95	68.0	1.5%	150-155	144.0	3.2%
35-40	147.7	3.2%	95-100	80.4	1.8%	155-160	115.6	2.5%
40-45	154.8	3.4%	100-105	118.6	2.6%	160-165	87.8	1.9%
45-50	157.9	3.5%	105-110	161.9	3.5%	165-170	61.2	1.3%
50-55	157.0	3.4%	110-115	196.4	4.3%	170-175	35.7	0.8%
55-60	152.3	3.3%	115-120	223.3	4.9%	175-180	11.6	0.3%

Zone	Lumens	% of Luminaire
0-40	708	15.5%
0-60	1330	29.1%
0-90	1981	43.4%
90-180	2585	56.6%



**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	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0
	5	530.9	531.8	530.8	532.1	532.9	532.1	530.8	531.8	530.9	530.8	530.9	530.5	530.0	530.5	530.9
	10	526.2	527.6	527.6	527.0	526.9	527.0	527.6	527.6	526.2	525.7	525.6	524.7	523.8	524.7	525.6
	15	518.0	520.3	520.0	518.7	519.5	518.7	520.0	520.3	518.0	515.9	515.3	514.5	514.7	514.5	515.3
	20	505.2	507.5	507.5	508.1	507.5	508.1	507.5	507.5	505.2	502.9	502.3	501.4	501.9	501.4	502.3
	25	491.9	494.2	494.3	494.1	494.1	494.1	494.3	494.2	491.9	488.0	487.3	486.8	486.9	486.8	487.3
	30	474.8	477.9	477.9	478.1	478.1	478.1	477.9	477.9	474.8	470.9	469.6	469.7	469.9	469.7	469.6
	35	455.4	458.4	458.7	458.8	458.4	458.8	458.7	458.4	455.4	450.4	448.8	449.1	449.0	449.1	448.8
	40	432.0	435.9	436.2	436.3	435.9	436.3	436.2	435.9	432.0	427.0	425.7	425.5	425.5	425.5	425.7
	45	405.1	410.4	410.7	410.8	410.0	410.8	410.7	410.4	405.1	400.8	399.2	399.0	399.1	399.0	399.2
	50	376.3	382.3	382.7	382.7	382.0	382.7	382.7	382.3	376.3	372.0	370.3	369.7	369.8	369.7	370.3
	55	345.8	352.2	352.3	352.4	351.8	352.4	352.3	352.2	345.8	340.7	339.0	338.4	338.4	338.4	339.0
	60	313.9	320.2	320.4	320.2	319.5	320.2	320.4	320.2	313.9	308.3	306.4	305.4	305.6	305.4	306.4
	65	280.1	286.7	286.5	286.3	285.5	286.3	286.5	286.7	280.1	274.7	272.3	271.5	271.1	271.5	272.3
	70	244.1	251.3	251.4	251.1	250.3	251.1	251.4	251.3	244.1	239.5	237.1	236.0	235.9	236.0	237.1
	75	208.1	215.6	216.2	215.3	214.5	215.3	216.2	215.6	208.1	203.6	201.5	200.8	200.9	200.8	201.5
	80	172.8	179.7	180.6	180.2	179.2	180.2	180.6	179.7	172.8	168.1	166.3	166.2	165.9	166.2	166.3
	85	137.9	145.1	145.8	146.0	146.3	146.0	145.8	145.1	137.9	133.7	133.0	133.5	134.6	133.5	133.0
	90	114.6	119.0	119.8	120.1	119.9	120.1	119.8	119.0	114.6	118.9	120.4	122.6	123.7	122.6	120.4
	95	130.4	127.1	125.1	125.6	124.7	125.6	125.1	127.1	130.4	134.8	137.1	143.0	138.6	143.0	137.1
	100	146.8	156.7	149.0	147.6	136.2	147.6	149.0	156.7	146.8	204.8	235.3	216.0	168.4	216.0	235.3
	105	249.9	261.6	250.5	236.9	170.5	236.9	250.5	261.6	249.9	297.8	330.8	307.5	268.1	307.5	330.8
	110	302.4	342.1	356.2	307.6	265.1	307.6	356.2	342.1	302.4	368.8	425.2	397.0	341.9	397.0	425.2
	115	374.5	414.2	448.6	398.8	341.5	398.8	448.6	414.2	374.5	456.0	510.8	458.4	393.5	458.4	510.8
	120	439.2	488.5	508.3	466.3	389.5	466.3	508.3	488.5	439.2	503.1	550.9	523.8	481.6	523.8	550.9
	125	498.1	519.7	548.7	517.2	474.1	517.2	548.7	519.7	498.1	541.0	575.3	552.4	514.6	552.4	575.3
	130	520.1	553.1	573.3	540.2	505.5	540.2	573.3	553.1	520.1	561.9	596.0	569.8	535.3	569.8	596.0
	135	545.7	569.1	590.5	563.5	529.4	563.5	590.5	569.1	545.7	572.1	607.7	586.9	559.0	586.9	607.7
	140	556.7	578.1	594.9	579.1	553.7	579.1	594.9	578.1	556.7	585.8	600.0	596.1	574.7	596.1	600.0
	145	567.6	582.1	589.2	584.3	570.1	584.3	589.2	582.1	567.6	585.5	595.7	592.3	582.5	592.3	595.7
	150	556.9	578.8	584.9	576.1	566.6	576.1	584.9	578.8	556.9	575.3	586.9	581.3	565.9	581.3	586.9
	155	547.2	565.7	568.5	563.2	551.3	563.2	568.5	565.7	547.2	553.1	566.2	564.8	548.3	564.8	566.2
	160	527.1	542.4	549.7	548.7	539.6	548.7	549.7	542.4	527.1	534.8	545.0	542.6	534.8	542.6	545.0
	165	514.8	527.6	533.4	526.9	519.1	526.9	533.4	527.6	514.8	518.8	526.7	521.5	517.3	521.5	526.7
	170	505.0	514.2	514.7	510.0	506.3	510.0	514.7	514.2	505.0	503.9	506.1	501.7	497.4	501.7	506.1
	175	490.9	494.8	497.2	494.9	493.5	494.9	497.2	494.8	490.9	485.8	485.8	483.4	482.1	483.4	485.8
	180	478.5	478.5	478.5	478.5	478.5	478.5	478.5	478.5	478.5	478.5	478.5	478.5	478.5	478.5	478.5

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

Vertical Angle (Degrees)	Horizontal Angle (Degrees)			
		0	45	90
	0	2914	2914	2914
	45	3251	3296	3290
	55	2703	2754	2750
	65	2217	2268	2260
	75	1724	1791	1777
	85	1234	1305	1310



### 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	106	106	106	106	97	97	97	97	80	80	80	64	64	64	50	50	50	43
1	95	90	85	81	86	82	78	75	68	65	62	54	52	50	42	40	39	33
2	86	78	71	65	78	71	65	60	58	54	50	47	44	41	36	34	32	27
3	78	68	60	54	70	62	55	49	51	46	41	41	37	34	31	29	26	22
4	71	59	51	45	64	54	47	41	45	39	35	36	32	28	28	25	22	18
5	65	53	44	38	59	48	41	35	40	34	30	32	28	24	25	22	19	16
6	60	47	39	33	54	43	36	30	36	30	26	29	24	21	22	19	17	14
7	55	42	34	28	50	39	32	26	32	27	22	26	22	18	20	17	15	12
8	51	38	30	25	46	35	28	23	29	24	20	24	19	16	19	15	13	10
9	47	35	27	22	43	32	25	20	27	21	17	22	18	15	17	14	12	9
10	44	32	24	20	40	29	23	18	25	19	16	20	16	13	16	13	10	8

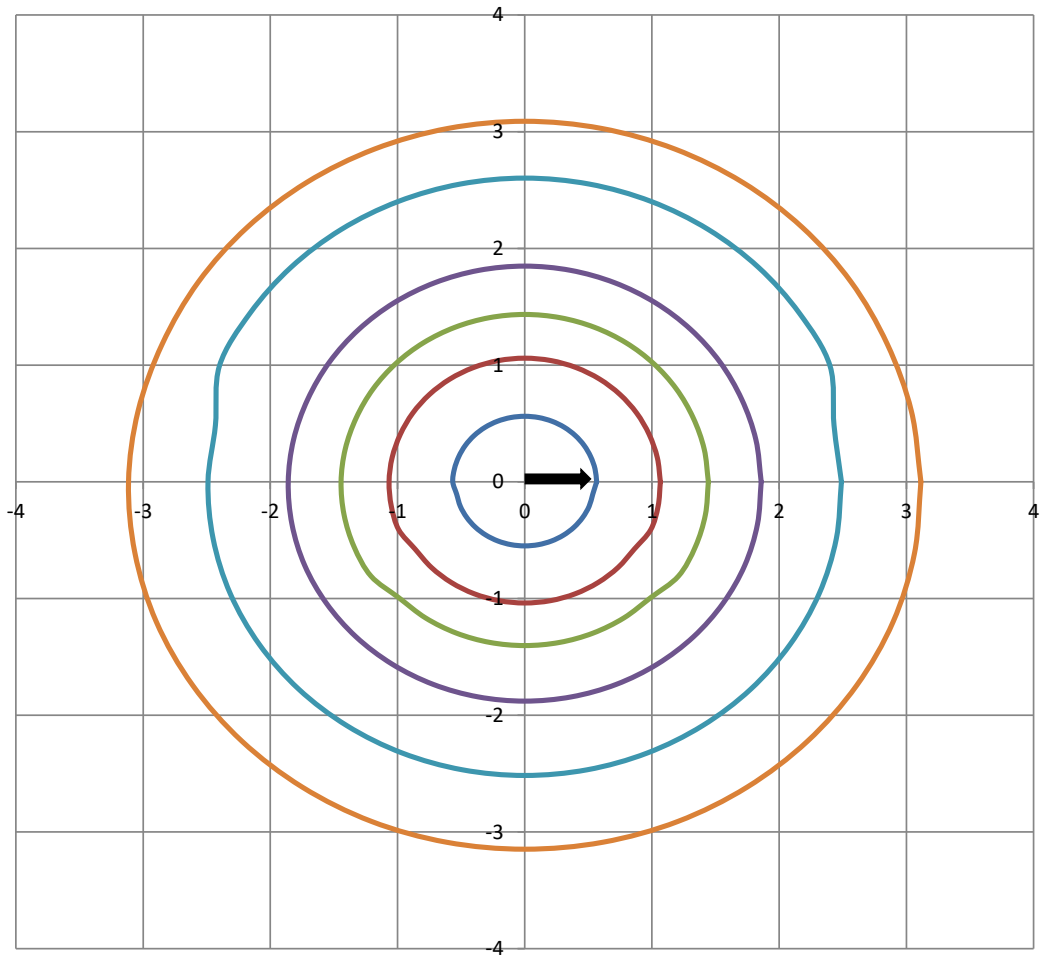
Beam and Field Information	
CIE Type:	Direct/Indirect
Center Beam Intensity:	533.0 Candela
Central Cone Intensity:	532 Candela
Beam Flux:	3851.4 Lumens
Beam Angle (0-180):	133.8 Degrees
Beam Angle (90-270):	133.3 Degrees
Field Angle (0-180):	N/A Degrees
Field Angle (90-270):	N/A Degrees

Cone of Light Tabulation			
Mounting Height (Feet)		Footcandles at Nadir	Diameter (Feet)
4.00		33.3	5.30
6.00		14.8	7.96
8.00		8.33	10.6
10.0		5.33	13.3
12.0		3.70	15.9
14.0		2.72	18.6
16.0		2.08	21.2



## 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