



**Luminaire Description:** White rectangular metal housing with diffuse rectangular plastic lens  
**Lamp:** 192 White LEDs  
**Mounting:** Surface – Ceiling  
**Ballast/Driver:** One (1) Amperor ANP101-24P1-277-2500L-VD-1

**Luminaire**



**Luminaire Characteristics**

Luminous Length: 48.00 in.  
Luminous Width: 2.000 in.

**Summary of Results**

**Integrating Sphere**

Luminous Flux: 3790 Lumens  
Efficacy: 88.87 lm/w  
CCT: 3709 K  
CRI (Ra): 84.0

**Distribution**

Total Luminaire Output: 3694 Lumens  
Luminaire Efficacy: 86.8 lm/w  
Maximum Candela: 1372 Candela

**Electrical Data at 120 VAC**

Test Temperature: 25.1 °C  
Voltage: 120.1 VAC  
Current: 0.3587 A  
Power: 42.65 W  
Power Factor: 0.990  
Frequency: 60 Hz  
Current THD: 7.50 %



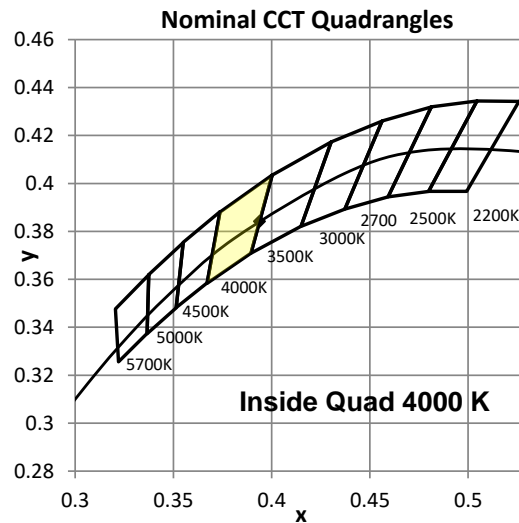
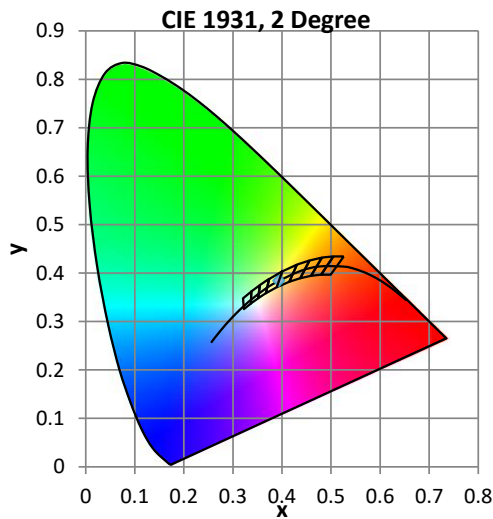
## Color Quality - Integrating Sphere

### Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.1 °C	120.1 VAC	0.3587 A	42.65 W	0.990	60 Hz	7.50 %

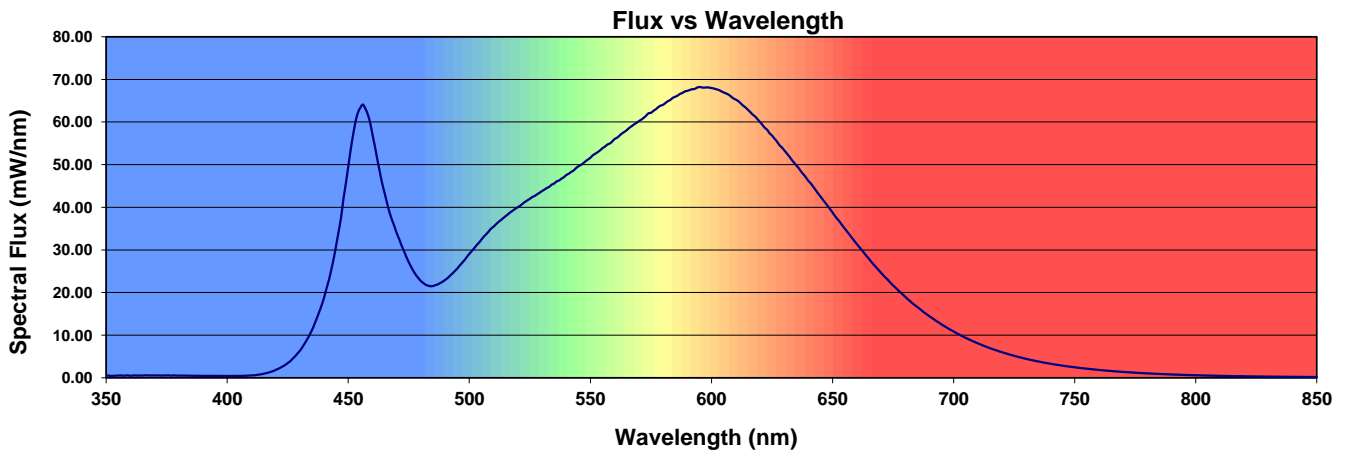
### Summary of Results

<b>Total Output:</b>	3790 Lumens	<b>Chromaticity (x):</b>	0.3938
<b>Efficacy:</b>	88.9 lm/w	<b>Chromaticity (y):</b>	0.3842
<b>CCT:</b>	3709 K	<b>Chromaticity (u'):</b>	0.2309
<b>CRI (Ra):</b>	84.0	<b>Chromaticity (v'):</b>	0.5068
<b>CRI (R9):</b>	15.3	<b>TM-30 Rf:</b>	84.1
<b>Peak Wavelength:</b>	596 nm	<b>TM-30 Rg:</b>	93.8
<b>Dominant Wavelength:</b>	580 nm	<b>Duv:</b>	0.0007
<b>S/P Ratio:</b>	1.63		



### Color Rendering Index Detail

Ra (CRI)	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
84.0	82.7	92.2	96.0	80.5	82.3	88.4	85.0	64.7	15.3	80.5	78.8	64.2	85.4	98.5	77.0





## Distribution - Goniophotometer

### Distribution Test Conditions

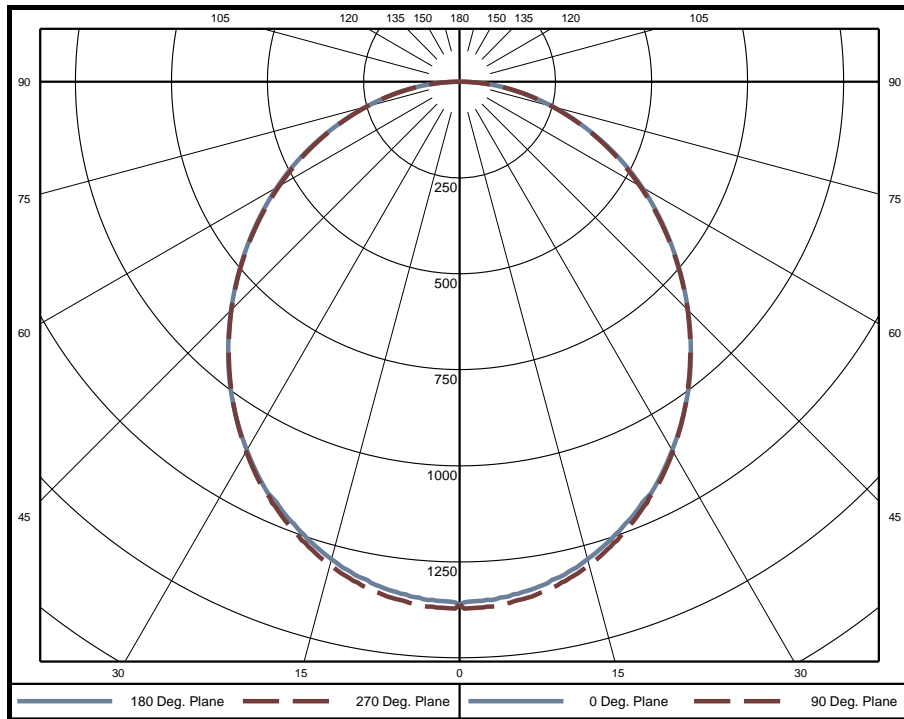
Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.4 °C	120.0 VAC	0.3583 A	42.56 W	0.990	60 Hz	7.42 %

### Summary of Results

**Spacing Criteria**  
 0-180: 1.21  
 90-270: 1.21

**Total Lumen Output:** 3694 Lumens  
**Luminaire Efficacy:** 86.8 lm/w  
**Maximum Candela:** 1372 Candela

### Polar Plot



### Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	32.5	0.9%	60-65	240.1	6.5%	120-125	0	0.0%
5-10	96.0	2.6%	65-70	199.9	5.4%	125-130	0	0.0%
10-15	155.6	4.2%	70-75	155.9	4.2%	130-135	0	0.0%
15-20	208.8	5.7%	75-80	110.4	3.0%	135-140	0	0.0%
20-25	253.8	6.9%	80-85	65.1	1.8%	140-145	0	0.0%
25-30	289.7	7.8%	85-90	21.1	0.6%	145-150	0	0.0%
30-35	313.9	8.5%	90-95	0	0.0%	150-155	0	0.0%
35-40	326.9	8.8%	95-100	0	0.0%	155-160	0	0.0%
40-45	328.7	8.9%	100-105	0	0.0%	160-165	0	0.0%
45-50	320.0	8.7%	105-110	0	0.0%	165-170	0	0.0%
50-55	301.5	8.2%	110-115	0	0.0%	170-175	0	0.0%
55-60	274.4	7.4%	115-120	0	0.0%	175-180	0	0.0%

Zone	Lumens	% of Luminaire
0-40	1677	45.4%
0-60	2902	78.6%
0-90	3694	100.0%
90-180	0	0.0%



**Candela Tabulation**  
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	1361	1361	1361	1361	1361	1361	1361	1361	1361	1361	1361	1361	1361	1361	1361	1361
5	1346	1353	1353	1353	1364	1353	1353	1353	1346	1353	1353	1353	1364	1353	1353	1353
10	1325	1330	1330	1330	1342	1330	1330	1330	1325	1330	1330	1330	1342	1330	1330	1330
15	1286	1292	1292	1292	1302	1292	1292	1292	1286	1292	1292	1292	1302	1292	1292	1292
20	1236	1241	1240	1240	1249	1240	1240	1241	1236	1241	1240	1240	1249	1240	1240	1241
25	1181	1183	1181	1179	1185	1179	1181	1183	1181	1183	1181	1179	1185	1179	1181	1183
30	1107	1111	1107	1104	1111	1104	1107	1111	1107	1111	1107	1104	1111	1104	1107	1111
35	1026	1029	1024	1020	1025	1020	1024	1029	1026	1029	1024	1020	1025	1020	1024	1029
40	936	941	935	930	934	930	935	941	936	941	935	930	934	930	935	941
45	841	847	841	835	839	835	841	847	841	847	841	835	839	835	841	847
50	743	751	743	738	741	738	743	751	743	751	743	738	741	738	743	751
55	645	651	643	639	641	639	643	651	645	651	643	639	641	639	643	651
60	548	550	543	539	541	539	543	550	548	550	543	539	541	539	543	550
65	449	449	443	441	442	441	443	449	449	449	443	441	442	441	443	449
70	347	349	346	344	344	344	346	349	347	349	346	344	344	344	346	349
75	252	253	253	250	250	250	253	253	252	253	253	250	250	250	253	253
80	162	164	163	161	161	161	163	164	162	164	163	161	161	161	163	164
85	79	80	78	78	77	78	78	80	79	80	78	78	77	78	78	80
90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
105	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
110	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
115	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
125	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
130	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
135	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
140	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
145	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
150	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
155	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
160	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
165	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
170	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
175	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
180	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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

	0	45	90
0	21980	21980	21980
45	19190	19200	19160
55	18160	18110	18030
65	17130	16930	16870
75	15700	15750	15590
85	14600	14530	14230

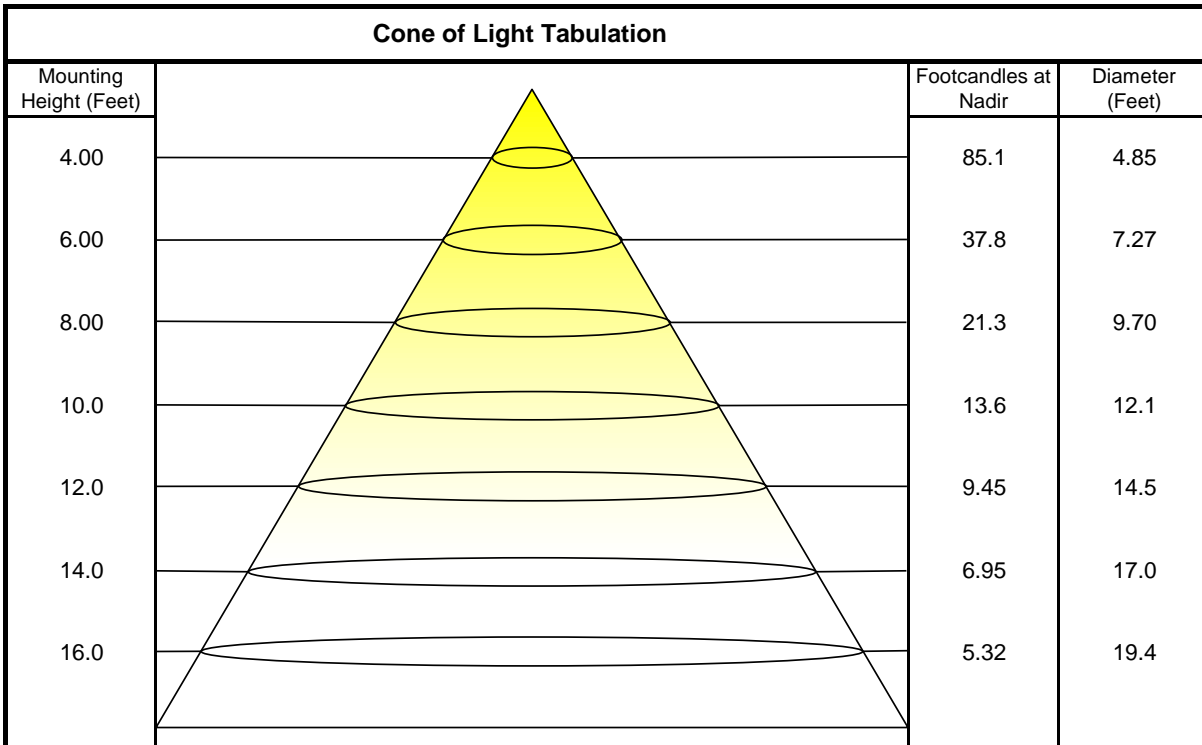


### Coefficients of Utilization - Zonal Cavity Method

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83
2	99	90	83	78	96	88	82	77	85	80	75	82	77	73	79	75	72	69
3	90	79	71	65	88	78	70	64	75	68	63	72	66	62	69	65	61	59
4	82	70	62	55	80	69	61	54	67	59	54	64	58	53	62	57	52	50
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	43
6	70	57	48	41	68	56	47	41	54	46	41	52	46	40	51	45	40	38
7	65	51	43	37	63	51	42	36	49	42	36	48	41	36	46	40	36	34
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	36	32	30
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	25

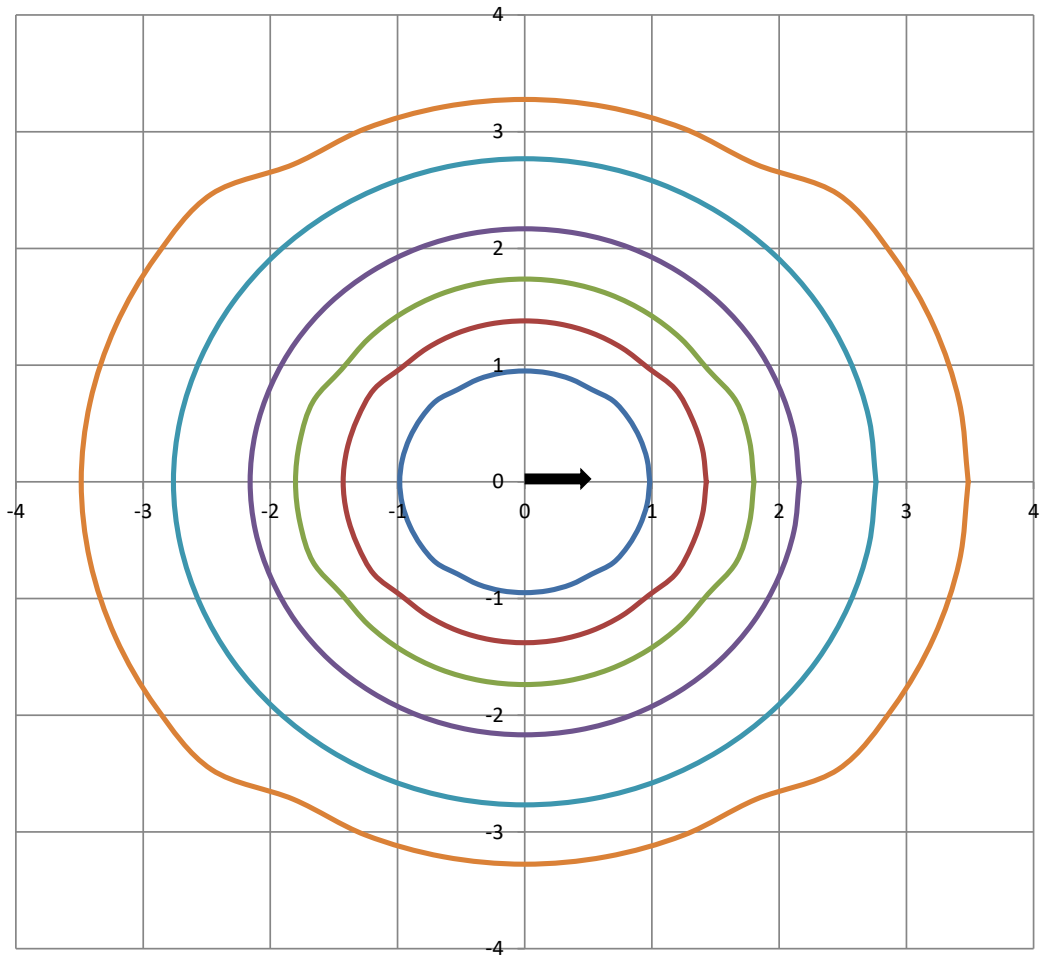
Beam and Field Information	
CIE Type:	Direct
Center Beam Intensity:	1361 Candela
Central Cone Intensity:	1359 Candela
Beam Flux:	2519.2 Lumens
Beam Angle (0-180):	106.4 Degrees
Beam Angle (90-270):	106.0 Degrees
Field Angle (0-180):	163.1 Degrees
Field Angle (90-270):	162.9 Degrees





# ISOFootcandle Plot

Mounting Height - 8 Feet



Grid Lines in Units of Mounting Height

