

DA-Diamond lens.

MULTI-LUMEN  
SELECTOR

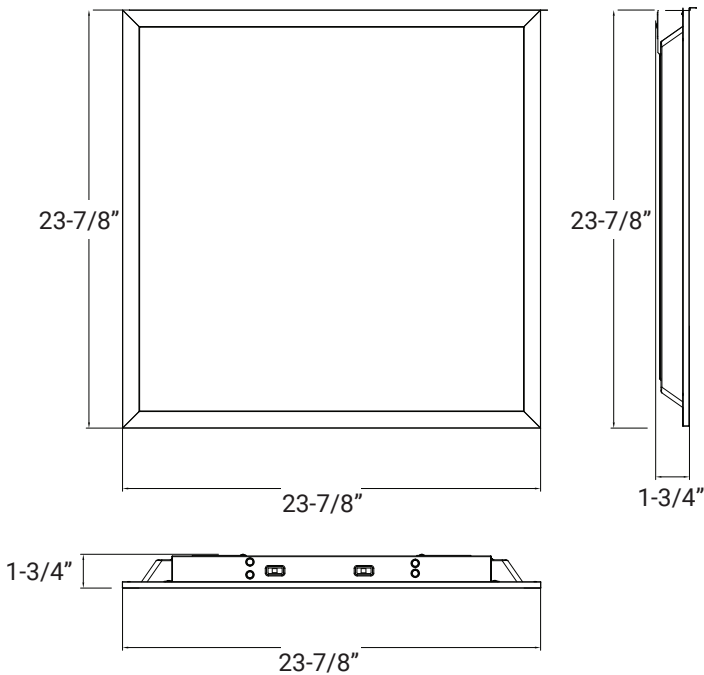
EASY3COLORS  
**SELECTOR**  
3500K • 4000K • 5000K



## FEATURES

The clean design of the **Fully Luminous Decorative Troffer** transforms your lighting projects into a masterpiece of art based on among humans. These 18 unique 3D optical patterns are a contemporary alternative to traditional fluorescent troffers. **The 22-OAT3D-LED** design delivers unmatched uniform light distribution. Easily adjust brightness level (multi-lumen) and color options (multi-CCT) in the field with multi-lumen and **multi CCT** selectors. Perfect for **offices, schools, healthcare, hospital, retail**, among other applications.

LUMENS	2000/ 3000/ 4000 4000/ 5000/ 6000
CCT	35K/ 40K/ 50K 30K/35K/ 40K 30K/35K/40K/50K (Only for 2000/3000/4000L Lumens)
CRI	85+
UGR	<19
COLOR QUALITY	3 Step MacAdam Ellipse
SIZE	2'x2'
MOUNTING	Recessed, Suspended, Surface Mount
DIMMING & CONTROL	0-10V Flicker Free 10% Dimming Standard (DIM10)
EMERGENCY	10W - Up to 1000L output 20W - Up to 2000L output
LIFETIME	L70 at 60,000 Hours
PHOTOMETRIC TESTS	In Accordance with IES LM79-08, LM80 and TM-30, TM-21



2000/3000/4000		
NOMINAL LUMENS	DELIVERED LUMENS	WATTAGE
4000	4536	37W
3000	3538	28W
2000	2591	19W

Based on 4000K, 85+ CRI. Actual wattage may vary +/- 5%

4000/5000/6000		
NOMINAL LUMENS	DELIVERED LUMENS	WATTAGE
6000	5694	50W
5000	4910	41W
4000	3831	30W

Based on 4000K, 85+ CRI. Actual wattage may vary +/- 5%



**Decorative lens OPTIONS**



**CH**-Center Hexagon



**RD**-Reeds



**LT**-Louvered Troffer



**GD**-Gradient



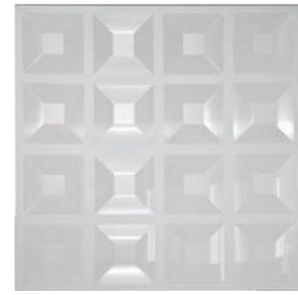
**TP**-Trapezoid



**PK**-Peaks



**ST**-Slot Troffer



**SQT**-Square Text



**4S**-Four Squares



**SD**-Spatial Depth



**CQ**-Center Square



**FM**-Floating Frame



**FG**-Full Offset Grid



**CU**-Cubes



**CG**-Center Grid



**OF**-Offset



**CC**-Center Circle



**DA**-Diamond

#### MAINTENANCE

Luminaire can be regularly and safely wipe down to ensure the peak of performance.

#### OPTICAL SYSTEM

Clear acrylic 0.125" matte PMMA, in 18 different 3D graphic image printed on inside lens surface, which protects it from cleaning solutions with scratch and impact resistant lens. Illumination is spread across the entire surface of the Architectural Panel, emitting soft, even light. A 110-degree beam angle ensures clear, shadow-free light.

#### CONSTRUCTION

Narrow extruded aluminum is tightly held to code gauge steel back plate with seamless corners to maximize the light emitting surface with a refined finish. Acrylic Architectural Lens technology enables a wide-variety of 3D visual forms; all on an easy-to-clean flat surface.

#### MOUNTING

Easy to install. Mounting hardware included. Accommodates lay-in ceilings, Slot T, and T bar suspension systems for 5/8" and 3/8" ceiling widths. Built-in grid and earthquake clips come standard. Options for flange kits, surface mounted kits and more. SMK required if suspending the fixture.

#### OPTIONS

Luminaires can be shipped pre-installed with whips, modular wiring systems.

#### DRIVER ELECTRICAL INFORMATION

Powered by high-quality constant-current power LED drivers which are rated for 50 to 60Hz at 120/277V input provides noise free operation. Available in 347V; produce less than 20% THD, and have a power factor of .90 to 1.00.

#### CONTROL OPTION

Compatible with field installed wireless controls such as daylight harvesting controls, occupancy sensors, and/or power packs for individual or room control applications

#### LED and PERFORMANCE

The Mid power LED array provides an uniform source with high efficiency and no pixilation in +85 CRI minimum, R9 greater than 12 with 3 SDCM. The color Temperature (CCT) and Lumen has a selectable range from 3000K to 5000K color temperature and 2000 to 6000 lumen with 2 separate side mount slide switch located in the back of the luminaire.

#### DIMMING & DRIVER INFORMATION

**DIM10** - Flicker Free and continuous 10% Dimming Standard (DIM10) 0-10V dimming on either MVOLT 120, 277V and 347V

#### WARRANTY

Five-year warranty for parts and components. (Labor not included)

#### LISTINGS

c-UL-us - Listed for Feed Through Wiring.

Can be used to comply with Title 24, non residential lighting requirements.

Damp location rated.

For DesignLights Consortium® (DLC) qualified products please visit [www.designlights.org](http://www.designlights.org). Not all family members will be listed for DLC Premium or DLC Standard.

**Example: 22-OAT3D-LED-CG-2000L/3000L/4000L-DIM10-120-347V-30K/35K/40K-85**

22-OAT3D-LED									
SERIES		LUMENS	DIMMING	VOLTAGE	CCT	CRI	EMERGENCY	OTHER OPTIONS	
22-OAT3D-LED		2000L/3000L/4000L	DIM10 - 0-10V Dimming	MVOLT	35K/40K/50K	85	0-EMG-LED-10W	22FK - 2'x2' Flange Kit	
		4000L/5000L/6000L	DIM10 - 0-10V Dimming	MVOLT	35K/40K/50K		0-EMG-LED-20W	22-OAT3D-LED-SMK - 2'x2' Surface Mount Kit	
		2000L/3000L/4000L/5000L	DIM10 - 0-10V Dimming	MVOLT	30K/35K/40K/50K			USA - Made in America	
		5000L/6000L/7000L	DIM10 - 0-10V Dimming	MVOLT	30K/35K/40K/50K			Compliance	
		2000L/3000L/4000L/5000L	DIM10 - 0-10V Dimming	120-347V	30K/35K/40K/50K				
		2000L/3000L/4000L	DIM10 - 0-10V Dimming	120-347V	30K/35K/40K				
		4000L/5000L/6000L	DIM10 - 0-10V Dimming	120-347V	30K/35K/40K				
LENS									

CH-Center Hexagon  
RD-Reeds  
LT-Louvered Troffer  
GD-Gradient  
TP-Trapezoid  
PK-Peaks  
ST-Slot Troffer  
SQT-Square Text  
4S-Four Squares

SD-Spatial Depth  
CQ-Center Square  
FM-Floating Frame  
FG-Full Offset Grid  
CU-Cubes  
CG -Center Grid  
OF-Offset  
CC-Center Circle  
DA-Diamond

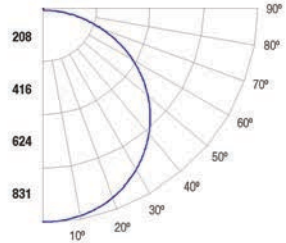




TEST NO.: **EL05212049**  
SPACING CRITERIA: **1.42**

**22-OAT3D-LED-2000L-3000L-4000L-DIM10-MVOLT-35K-40K-50K-85(2000L)**  
INPUT WATTS: **19.4949** LUMENS: **2597** CRI: **N/A** EFFICACY: **133** CCT: **3500K**

### Candle Power Distribution (Candelas)



### Zonal Lumens Summary

Zone	Lumens	%Lamp	%Fixt
0-20	305.14	11.70	11.70
0-30	652.69	25.10	25.10
0-40	1079.38	41.60	41.60
0-60	1954.11	75.20	75.20
0-80	2497.12	96.20	96.20
0-90	2571.01	99.00	99.00

### Luminance (Average candela/M<sup>2</sup>)

Angle in Degrees	Average 0°	Average 45°	Average 90°
45	2226	2269	2283
55	2200	2262	2282
65	2136	2227	2256
75	2018	2162	2200
85	1945	2331	2444

### Lumens Per Zone

Zone	Lumens
0-10	78.62
10-20	226.53
20-30	347.55
30-40	426.69
40-50	453.11
50-60	421.62
60-70	334.88
70-80	208.13
80-90	73.89

### Candela Tabulation

0	0
0.0	829.942
5.0	827.490
15.0	802.200
25.0	753.010
35.0	680.450
45.0	585.350
55.0	469.270
65.0	335.710
75.0	194.290
85.0	63.040
90.0	10.750

### Coefficients of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance 0.20

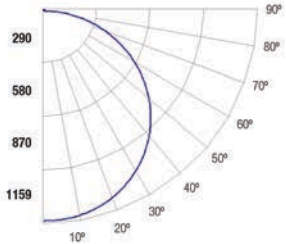
RC	RW	80%				70%				50%				30%				10%				0%			
		70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%
0	119	119	119	119	119	116	116	116	116	111	111	111	106	106	106	101	101	101	99						
1	108	103	98	94	94	105	100	96	92	96	92	89	92	89	86	88	86	84	81						
2	98	89	82	76	76	95	87	80	75	83	78	73	80	75	71	77	73	69	67						
3	89	78	69	62	62	86	76	68	62	73	66	61	70	64	59	67	62	58	56						
4	81	69	60	53	53	79	67	59	52	65	57	51	62	56	50	60	54	50	47						
5	74	61	52	45	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41						
6	69	55	46	39	39	67	54	45	39	52	44	38	50	43	38	48	42	38	35						
7	64	50	41	34	34	62	49	40	34	47	39	34	46	39	34	44	38	33	31						
8	59	45	37	31	31	57	45	36	30	43	36	30	42	35	30	40	34	30	28						
9	55	41	33	27	27	54	41	33	27	40	32	27	38	32	27	37	31	27	25						
10	52	38	30	25	25	50	38	30	25	37	29	25	36	29	24	35	29	24	22						

RC - Ceiling Cavity Reflectance RW - Wall Reflectance

TEST NO.: **EL05212050**  
SPACING CRITERIA: **1.42**

**22-OAT3D-LED-2000L-3000L-4000L-DIM10-MVOLT-35K-40K-50K-85(3000L)**  
INPUT WATTS: **28.8** LUMENS: **3638** CRI: **N/A** EFFICACY: **126** CCT: **3500K**

### Candle Power Distribution (Candelas)



### Zonal Lumens Summary

Zone	Lumens	%Lamp	%Fixt
0-20	424.85	11.70	11.70
0-30	908.79	25.00	25.00
0-40	1503.04	41.30	41.30
0-60	2730.86	75.10	75.10
0-80	3496.32	96.10	96.10
0-90	3600.78	99.00	99.00

### Luminance (Average candela/M<sup>2</sup>)

Angle in Degrees	Average 0°	Average 45°	Average 90°
45	3096	3153	3181
55	3061	3143	3184
65	2971	3094	3150
75	2838	3033	3117
85	2711	3244	3469

### Lumens Per Zone

Zone	Lumens
0-10	109.45
10-20	315.39
20-30	483.94
30-40	594.25
40-50	635.45
50-60	592.37
60-70	470.92
70-80	294.54
80-90	104.46

### Candela Tabulation

0	0
0.0	1155.504
5.0	1152.370
15.0	1116.480
25.0	1048.560
35.0	947.260
45.0	814.280
55.0	653.000
65.0	467.050
75.0	273.200
85.0	87.900
90.0	14.460

### Coefficients of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance 0.20

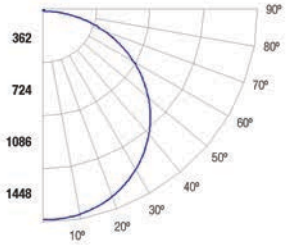
RC	RW	80%				70%				50%				30%				10%				0%			
		70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%
0	119	119	119	119	119	116	116	116	116	111	111	111	106	106	106	101	101	101	99						
1	108	103	98	94	94	105	100	96	92	96	92	89	92	89	86	88	86	84	81						
2	98	89	82	76	76	95	87	80	75	83	78	73	80	75	71	77	73	69	67						
3	89	78	69	62	62	86	76	68	62	73	66	61	70	64	59	67	62	58	56						
4	81	69	59	52	52	79	67	59	52	64	57	51	62	56	50	60	54	50	47						
5	74	61	52	45	45	72	60	51	45	58	50	44	55	49	43	53	48	43	41						
6	68	55	46	39	39	66	54	45	39	52	44	38	50	43	38	48	42	37	35						
7	63	50	41	34	34	62	49	40	34	47	39	34	45	39	33	44	38	33	31						
8	59	45	36	30	30	57	44	36	30	43	35	30	42	35	30	40	34	30	28						
9	55	41	33	27	27	54	41	33	27	39	32	27	38	32	27	37	31	27	25						
10	52	38	30	25	25	50	38	30	25	36	29	24	35	29	24	35	28	24	22						

RC - Ceiling Cavity Reflectance RW - Wall Reflectance

TEST NO.: **EL05212051**  
SPACING CRITERIA: **1.42**

**22-OAT3D-LED-2000L-3000L-4000L-DIM10-MVOLT-35K-40K-50K-85(4000L)**  
INPUT WATTS: **37.4** LUMENS: **4536** CRI: **N/A** EFFICACY: **121** CCT: **3500K**

### Candle Power Distribution (Candelas)



### Zonal Lumens Summary

Zone	Lumens	%Lamp	%Fixt
0-20	530.24	11.70	11.70
0-30	1134.29	25.00	25.00
0-40	1876.05	41.40	41.40
0-60	3402.22	75.00	75.00
0-80	4358.49	96.10	96.10
0-90	4489.77	99.00	99.00

### Luminance (Average candela/M<sup>2</sup>)

Angle in Degrees	Average 0°	Average 45°	Average 90°
45	3865	3938	3974
55	3820	3925	3981
65	3708	3862	3940
75	3544	3783	3918
85	3384	4051	4368

### Lumens Per Zone

Zone	Lumens
0-10	136.60
10-20	393.64
20-30	604.05
30-40	741.77
40-50	788.05
50-60	738.12
60-70	588.50
70-80	367.77
80-90	131.28

### Candela Tabulation

0	0
0.0	1441.952
5.0	1437.640
15.0	1393.830
25.0	1308.550
35.0	1182.000
45.0	1016.650
55.0	814.920
65.0	582.820
75.0	341.150
85.0	109.710
90.0	18.020

### Coefficients of Utilization - Zonal Cavity Method

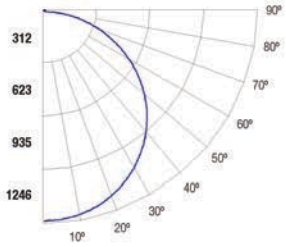
Effective Floor Cavity Reflectance 0.20

ROOM CAVITY RATIO	RC	80%				70%				50%			30%			10%			0%
	RW	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%
	0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	101	101	101	99
	1	108	103	98	94	105	100	96	92	96	92	89	92	89	86	88	86	83	81
	2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	76	73	69	67
	3	89	78	69	62	86	76	68	62	73	66	60	70	64	59	67	62	58	56
	4	81	68	59	52	79	67	59	52	64	57	51	62	56	50	60	54	50	47
	5	74	61	52	45	72	60	51	45	58	50	44	55	49	43	53	48	43	41
	6	68	55	46	39	66	54	45	39	52	44	38	50	43	38	48	42	37	35
	7	63	50	41	34	62	49	40	34	47	39	34	45	39	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	30	28	
9	55	41	33	27	54	41	33	27	40	32	27	38	32	27	37	31	27	25	
10	52	38	30	25	50	38	30	25	36	29	24	35	29	24	35	28	24	22	



**22-OAT3D-LED-4000L-5000L-6000L-DIM10-120-347V-35K-40K-50K-85(4000L)** TEST NO.: **EL10052029**  
INPUT WATTS: **30.9** LUMENS: **3831** CRI: **N/A** EFFICACY: **124** CCT: **3500K** SPACING CRITERIA: **1.42**

**Candle Power Distribution (Candelas)**



**Zonal Lumens Summary**

Zone	Lumens	%Lamp	%Fixt
0-20	453.15	11.80	11.80
0-30	967.59	25.30	25.30
0-40	1596.68	41.70	41.70
0-60	2886.68	75.40	75.40
0-80	3686.49	96.20	96.20
0-90	3793.1	99.00	99.00

**Luminance (Average candela/M<sup>2</sup>)**

Angle in Degrees	Average 0°	Average 45°	Average 90°
45	3271	3269	3269
55	3223	3217	3219
65	3134	3117	3113
75	3014	2990	2967
85	2906	2871	2850

**Lumens Per Zone**

Zone	Lumens
0-10	116.90
10-20	336.25
20-30	514.44
30-40	629.10
40-50	668.76
50-60	621.24
60-70	492.13
70-80	307.68
80-90	106.61

**Candela Tabulation**

0	
0.0	1234.645
5.0	1232.700
15.0	1192.190
25.0	1116.330
35.0	1005.990
45.0	860.200
55.0	687.700
65.0	492.620
75.0	290.170
85.0	94.200
90.0	12.930

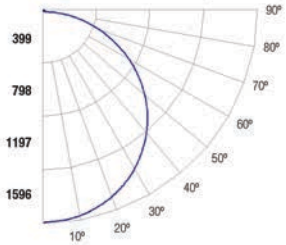
**Coefficients of Utilization - Zonal Cavity Method**  
Effective Floor Cavity Reflectance 0.20

RC	RW	80%				70%				50%				30%				10%				0%			
		70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%
0	119	119	119	119	119	116	116	116	116	111	111	111	106	106	106	101	101	101	99						
1	108	103	98	94	94	105	100	96	92	96	92	89	92	89	86	88	86	84	81						
2	98	89	82	76	76	95	87	80	75	83	78	73	80	75	71	77	73	69	67						
3	89	78	69	63	63	86	76	68	62	73	66	61	70	64	59	67	62	58	56						
4	81	69	60	53	53	79	67	59	52	65	57	51	62	56	51	60	54	50	47						
5	74	61	52	45	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41						
6	69	55	46	39	39	67	54	45	39	52	44	39	50	43	38	49	42	38	36						
7	64	50	41	35	35	62	49	40	34	47	40	34	46	39	34	44	38	33	31						
8	59	45	37	31	31	57	45	36	31	43	36	30	42	35	30	41	34	30	28						
9	55	42	33	28	28	54	41	33	27	40	32	27	39	32	27	37	31	27	25						
10	52	38	30	25	25	50	38	30	25	37	30	25	36	29	24	35	29	24	23						

RC - Ceiling Cavity Reflectance RW - Wall Reflectance

**22-OAT3D-LED-4000L-5000L-6000L-DIM10-120-347V-35K-40K-50K-85(5000L)** TEST NO.: **EL10052029**  
INPUT WATTS: **41.5** LUMENS: **4910** CRI: **N/A** EFFICACY: **118** CCT: **3500K** SPACING CRITERIA: **1.42**

**Candle Power Distribution (Candelas)**



**Zonal Lumens Summary**

Zone	Lumens	%Lamp	%Fixt
0-20	582.38	11.90	11.90
0-30	1243.39	25.30	25.30
0-40	2051.59	41.80	41.80
0-60	3700.14	75.40	75.40
0-80	4725.16	96.20	96.20
0-90	4861.42	99.00	99.00

**Luminance (Average candela/M<sup>2</sup>)**

Angle in Degrees	Average 0°	Average 45°	Average 90°
45	4184	4194	4208
55	4121	4122	4143
65	3994	3992	4015
75	3826	3817	3814
85	3600	3657	3723

**Lumens Per Zone**

Zone	Lumens
0-10	150.20
10-20	432.18
20-30	661.02
30-40	808.19
40-50	854.13
50-60	794.42
60-70	631.59
70-80	393.44
80-90	136.26

**Candela Tabulation**

0	
0.0	1586.679
5.0	1582.040
15.0	1531.540
25.0	1431.370
35.0	1288.010
45.0	1100.460
55.0	879.260
65.0	627.780
75.0	368.320
85.0	116.720
90.0	14.070

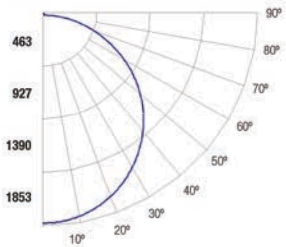
**Coefficients of Utilization - Zonal Cavity Method**  
Effective Floor Cavity Reflectance 0.20

RC	RW	80%				70%				50%				30%				10%				0%			
		70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%
0	119	119	119	119	119	116	116	116	116	111	111	111	106	106	106	101	101	101	99						
1	108	103	98	94	94	105	100	96	92	96	92	89	92	89	86	88	86	84	81						
2	98	89	82	76	76	95	87	80	75	83	78	73	80	75	71	77	73	69	67						
3	89	78	69	63	63	86	76	68	62	73	66	61	70	64	60	67	62	58	56						
4	81	69	60	53	53	79	67	59	52	65	57	51	62	56	51	60	54	50	48						
5	74	61	52	45	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41						
6	69	55	46	39	39	67	54	45	39	52	44	39	50	43	38	49	42	38	36						
7	64	50	41	35	35	62	49	40	34	47	40	34	46	39	34	44	38	33	31						
8	59	45	37	31	31	57	45	36	31	43	36	30	42	35	30	41	34	30	28						
9	55	42	33	28	28	54	41	33	27	40	32	27	39	32	27	37	31	27	25						
10	52	38	30	25	25	50	38	30	25	37	30	25	36	29	25	35	29	24	23						

RC - Ceiling Cavity Reflectance RW - Wall Reflectance

**22-OAT3D-LED-4000L-5000L-6000L-DIM10-120-347V-35K-40K-50K-85(6000L)** TEST NO.: **EL10052034**  
INPUT WATTS: **50.1** LUMENS: **5694** CRI: **N/A** EFFICACY: **114** CCT: **3500K** SPACING CRITERIA: **1.42**

**Candle Power Distribution (Candelas)**



**Zonal Lumens Summary**

Zone	Lumens	%Lamp	%Fixt
0-20	675.71	11.90	11.90
0-30	1442.7	25.30	25.30
0-40	2380.54	41.80	41.80
0-60	4289.98	75.30	75.30
0-80	5479.56	96.20	96.20
0-90	5637.82	99.00	99.00

**Luminance (Average candela/M<sup>2</sup>)**

Angle in Degrees	Average 0°	Average 45°	Average 90°
45	4860	4872	4880
55	4777	4796	4816
65	4638	4637	4657
75	4426	4388	4405
85	4206	4201	4335

**Lumens Per Zone**

Zone	Lumens
0-10	174.29
10-20	501.42
20-30	766.99
30-40	937.84
40-50	991.15
50-60	918.29
60-70	733.04
70-80	456.54
80-90	158.26

**Candela Tabulation**

0	
0.0	1841.245
5.0	1836.170
15.0	1776.490
25.0	1662.800
35.0	1496.350
45.0	1278.260
55.0	1019.080
65.0	729.050
75.0	426.080
85.0	136.350
90.0	19.200

**Coefficients of Utilization - Zonal Cavity Method**  
Effective Floor Cavity Reflectance 0.20

ROOM CAVITY RATIO	RC	80%				70%				50%			30%			10%			0%
	RW	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%
	0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	101	101	101	99
	1	108	103	98	94	105	100	96	92	96	92	89	92	89	86	88	86	84	81
	2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	69	67
	3	89	78	69	63	86	76	68	62	73	66	61	70	64	59	67	62	58	56
	4	81	69	60	53	79	67	59	52	65	57	51	62	56	51	60	54	50	48
	5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41
	6	69	55	46	39	67	54	45	39	52	44	39	50	43	38	49	42	38	36
	7	64	50	41	35	62	49	40	34	47	40	34	46	39	34	44	38	33	31
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	34	30	28	
9	55	42	33	28	54	41	33	27	40	32	27	39	32	27	37	31	27	25	
10	52	38	30	25	50	38	30	25	37	30	25	36	29	25	35	29	24	23	