

**IES Report**

**ZipTwo® | 707 | Ceiling Cable | Square 3520, Single Side Diffuse | 80 CRI | SO**  
**707-Z2-S-4-48-CC-XX-XX-XX-X-X-Z-SO-X-FA-WH-X**

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	52	54	55	55
Total Lumens, 4' rail length (1219mm)	1348	1390	1419	1419
Lumens per foot (305mm)	337	348	355	355
Input Power (W), 4' rail length (1219mm)	26.1	26.1	26.1	26.1
Watts per foot (305mm)	6.6	6.6	6.6	6.6
CRI	82	82	82	82

Due to the large number of options in Vode’s product offering, most Vode IES reports are factored reports prepared from source reports. Source reports are the IES test reports prepared for Vode by an NVLAP accredited photometric test laboratory. Factored reports are based on data from the Vode source reports.

If the data above is in black, it is directly from a Vode source report. If it is in grey, it is factored from Vode source reports. Reference details on Vode source reports can be found on the [IES File Finder](#) page on [vode.com](#).



**IES INDOOR REPORT**

**PHOTOMETRIC FILENAME : VODE\_707\_Z2\_CC\_SO\_35\_FA\_WH.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] L082011214 (SOURCE REPORT FOR REFERENCE)  
[TESTLAB] REPORT BASED ON DATA FROM NVLAP ACCREDITED LAB  
[ISSUE DATE] 5/12/2021  
[MANUFAC] Vode Lighting  
[LUMCAT] 707-Z2-48-CC-Z-SO-35-FA-WH  
[LUMINAIRE] ZipTwo LED, 48", ceiling cable suspended, 3500K, 80 CRI, zipper board,  
[MORE] square 3520, single side diffuse lens, standard output, white painted finish  
[TEST PROCEDURE] IESNA:LM-79-08

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1418
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	54
Total Luminaire Watts	26.03
Ballast Factor	1.00
CIE Type	General Diffuse
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Unknown
Luminous Length (0-180)	0.00 ft
Luminous Width (90-270)	3.99 ft
Luminous Height	0.00 ft

**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	0	0	0
55	0	0	0
65	0	0	0
75	0	0	0
85	0	0	0

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**CANDELA TABULATION**

	<u>0</u>	<u>5</u>	<u>10</u>	<u>15</u>	<u>20</u>	<u>25</u>	<u>30</u>	<u>35</u>	<u>40</u>	<u>45</u>
<b>0</b>	7.354	7.354	7.354	7.354	7.354	7.354	7.354	7.354	7.354	7.354
<b>5</b>	1.161	1.161	1.161	1.161	1.161	1.272	1.272	1.396	1.396	1.396
<b>10</b>	0.926	0.926	0.926	0.926	0.926	0.926	0.926	0.926	0.926	1.161
<b>15</b>	0.691	0.691	0.691	0.691	0.691	0.691	0.691	0.691	0.691	0.926
<b>20</b>	0.470	0.470	0.581	0.581	0.581	0.581	0.581	0.581	0.691	0.691
<b>25</b>	0.691	0.691	0.691	0.691	0.691	0.691	0.691	0.581	0.581	0.581
<b>30</b>	0.926	0.926	0.926	0.816	0.816	0.816	0.816	0.691	0.691	0.691
<b>35</b>	0.926	0.926	0.926	0.926	0.926	0.926	0.926	0.816	0.816	0.816
<b>40</b>	1.161	1.161	1.161	1.161	1.161	1.037	1.037	1.037	0.926	0.816
<b>45</b>	1.396	1.396	1.396	1.272	1.272	1.272	1.161	1.037	1.037	1.037
<b>50</b>	1.617	1.507	1.507	1.396	1.396	1.396	1.272	1.272	1.161	1.037
<b>55</b>	1.617	1.617	1.617	1.617	1.617	1.507	1.507	1.272	1.272	1.161
<b>60</b>	1.852	1.852	1.852	1.742	1.742	1.617	1.507	1.507	1.272	1.272
<b>65</b>	1.852	1.852	1.852	1.852	1.852	1.742	1.617	1.507	1.507	1.272
<b>70</b>	2.087	2.087	1.977	1.977	1.852	1.852	1.742	1.617	1.507	1.507
<b>75</b>	2.087	2.087	2.087	2.087	1.977	1.977	1.852	1.742	1.507	1.507
<b>80</b>	2.322	2.198	2.198	2.087	2.087	1.977	1.977	1.742	1.742	1.507
<b>85</b>	2.322	2.322	2.322	2.198	2.087	2.087	1.977	1.742	1.742	1.507
<b>90</b>	2.322	2.322	2.322	2.322	2.198	2.087	1.977	1.977	1.742	1.617
<b>95</b>	2.322	2.322	2.433	2.433	2.322	2.198	2.198	1.977	1.852	1.742
<b>100</b>	2.779	2.779	2.668	2.668	2.668	2.544	2.544	2.322	2.198	1.977
<b>105</b>	3.014	3.014	2.903	2.903	3.014	2.903	2.779	2.544	2.322	2.322
<b>110</b>	3.249	3.249	3.124	3.124	3.124	3.014	2.903	2.779	2.668	2.433
<b>115</b>	3.705	3.594	3.359	3.484	3.484	3.359	3.249	3.014	2.903	2.779
<b>120</b>	3.940	3.829	3.705	3.705	3.594	3.594	3.484	3.124	3.124	3.014
<b>125</b>	4.175	4.050	3.940	3.829	3.829	3.705	3.705	3.359	3.359	3.249
<b>130</b>	4.175	4.175	4.050	3.940	3.940	3.940	3.940	3.594	3.249	3.249
<b>135</b>	4.175	4.410	4.175	4.050	4.175	4.175	3.829	3.484	3.484	3.484
<b>140</b>	4.410	4.410	4.410	4.285	4.410	3.940	3.940	3.594	3.705	3.705
<b>145</b>	4.631	4.631	4.631	4.520	3.940	4.175	4.050	3.829	3.829	4.050
<b>150</b>	4.631	4.755	4.866	4.285	4.285	4.285	4.285	4.175	4.410	4.520
<b>155</b>	4.866	4.866	4.755	4.410	4.410	4.410	4.866	4.755	4.631	4.520
<b>160</b>	4.866	4.866	4.285	4.520	4.520	5.101	5.101	4.520	4.631	4.520
<b>165</b>	4.631	4.050	4.050	4.410	5.212	5.336	5.101	4.755	4.631	4.631
<b>170</b>	4.631	3.940	4.050	4.977	5.101	5.212	5.101	4.977	4.977	5.212
<b>175</b>	3.249	4.410	5.336	6.027	6.262	6.373	6.608	6.608	7.299	7.880
<b>180</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**Vert. Horizontal Angles**

	<u>50</u>	<u>55</u>	<u>60</u>	<u>65</u>	<u>70</u>	<u>75</u>	<u>80</u>	<u>85</u>	<u>90</u>	<u>95</u>
<b>0</b>	7.354	7.354	7.354	7.354	7.354	7.354	7.354	7.354	7.354	7.354
<b>5</b>	1.617	1.742	1.977	2.198	2.668	3.249	4.285	5.447	6.843	8.571
<b>10</b>	1.161	1.161	1.161	1.396	1.396	1.742	2.433	3.940	6.718	10.548
<b>15</b>	0.926	0.926	1.037	1.161	1.161	1.396	1.617	2.779	6.718	12.635
<b>20</b>	0.691	0.816	0.926	0.926	1.037	1.161	1.396	2.087	6.373	14.833
<b>25</b>	0.581	0.691	0.691	0.816	0.926	1.037	1.161	1.617	6.262	16.796
<b>30</b>	0.581	0.581	0.581	0.691	0.816	0.926	1.037	1.396	5.917	18.662
<b>35</b>	0.691	0.691	0.581	0.581	0.691	0.816	0.926	1.161	5.792	20.390
<b>40</b>	0.816	0.816	0.691	0.581	0.581	0.691	0.926	1.037	5.447	22.022
<b>45</b>	0.816	0.816	0.816	0.691	0.581	0.691	0.816	0.926	5.101	23.528
<b>50</b>	1.037	0.816	0.816	0.816	0.581	0.581	0.691	0.926	4.520	25.381
<b>55</b>	1.037	1.037	0.816	0.816	0.581	0.581	0.691	0.816	4.175	25.837
<b>60</b>	1.037	1.037	0.816	0.816	0.816	0.581	0.581	0.691	3.594	26.888

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**CANDELA TABULATION - (Cont.)**

65	1.272	1.037	1.037	0.816	0.816	0.581	0.581	0.691	3.124	27.689
70	1.272	1.161	1.037	0.816	0.816	0.581	0.581	0.581	3.249	28.159
75	1.272	1.272	1.037	0.926	0.816	0.816	0.581	0.581	2.668	28.505
80	1.396	1.272	1.037	0.926	0.816	0.816	0.581	0.581	1.617	28.505
85	1.507	1.272	1.161	1.037	0.816	0.816	0.581	0.581	1.161	29.321
90	1.507	1.272	1.161	1.037	0.816	0.816	0.581	0.581	0.581	28.851
95	1.507	1.396	1.272	1.161	0.926	0.816	0.816	0.581	0.691	28.630
100	1.852	1.617	1.507	1.272	1.161	0.926	0.816	0.816	1.161	28.740
105	2.087	1.852	1.742	1.507	1.272	1.161	1.037	1.037	1.742	25.146
110	2.433	2.198	1.977	1.742	1.617	1.507	1.507	1.507	2.544	22.132
115	2.668	2.433	2.322	2.198	2.087	2.087	2.198	1.977	3.484	19.464
120	2.903	2.903	2.779	2.668	2.668	2.668	2.544	2.544	4.410	16.921
125	3.014	2.903	2.903	2.903	2.903	2.903	2.903	3.014	4.977	14.363
130	3.124	3.249	3.124	3.124	3.124	3.124	3.014	3.359	5.557	13.326
135	3.484	3.484	3.359	3.359	3.359	3.359	3.249	3.705	5.917	12.400
140	3.705	3.829	3.594	3.484	3.484	3.359	3.484	4.410	6.373	11.585
145	4.285	3.940	3.829	3.705	3.594	3.594	3.940	5.101	6.843	10.548
150	4.410	4.285	4.175	3.940	4.050	4.175	4.631	6.483	7.990	10.893
155	4.520	4.410	4.410	4.285	4.175	4.631	5.917	7.880	9.041	11.239
160	4.520	4.520	4.410	4.520	4.755	5.447	7.188	8.916	9.857	11.363
165	4.520	4.631	4.755	5.101	5.792	7.064	8.695	9.857	10.658	11.363
170	5.336	5.557	6.138	6.953	7.990	9.151	10.202	11.004	11.474	11.820
175	8.225	8.806	9.386	10.078	10.658	11.239	11.709	12.055	12.290	12.635
180	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**Vert. Horizontal Angles**

	<u>100</u>	<u>105</u>	<u>110</u>	<u>115</u>	<u>120</u>	<u>125</u>	<u>130</u>	<u>135</u>	<u>140</u>	<u>145</u>
0	7.354	7.354	7.354	7.354	7.354	7.354	7.354	7.354	7.354	7.354
5	10.202	11.930	13.796	15.414	17.156	18.662	20.515	21.897	23.183	24.330
10	14.598	18.538	22.602	26.072	29.777	33.261	37.076	40.214	43.103	45.661
15	18.884	25.035	30.938	36.620	42.523	48.895	54.232	59.568	64.309	68.484
20	23.183	31.284	39.398	47.167	55.503	63.148	72.313	79.723	86.566	92.814
25	26.998	37.311	47.859	58.061	68.954	81.119	91.197	101.053	109.970	118.541
30	31.173	43.573	56.430	69.175	82.737	97.680	110.551	123.061	134.535	145.774
35	35.002	49.601	65.014	80.414	96.754	112.168	130.595	145.898	160.027	174.044
40	38.707	55.628	73.585	91.667	110.786	128.978	151.331	169.178	186.099	202.674
45	42.301	61.296	81.921	102.436	124.692	145.774	171.611	192.596	212.406	231.994
50	45.426	66.742	89.801	112.873	138.129	161.879	191.545	215.530	238.478	261.301
55	48.329	71.843	96.989	122.716	151.691	182.394	210.553	237.317	263.154	289.240
60	50.527	76.599	104.178	135.696	167.450	197.573	227.585	258.412	287.954	315.422
65	52.725	80.649	110.205	140.562	178.108	211.134	243.689	277.061	309.395	339.642
70	54.467	84.008	116.923	147.046	182.159	222.138	256.670	293.179	326.772	358.871
75	55.849	86.787	119.467	152.838	189.693	224.916	267.674	306.271	341.494	375.211
80	57.936	89.925	122.716	157.359	201.402	238.588	276.369	314.952	352.277	387.266
85	58.517	91.308	124.692	160.372	199.314	236.625	281.927	321.104	358.069	394.689
90	58.517	91.778	125.619	162.695	199.660	242.528	284.014	323.537	360.848	397.233
95	58.517	90.616	126.655	162.805	199.771	244.270	282.867	323.537	360.157	396.541
100	58.406	90.381	124.914	161.768	198.388	243.454	282.742	320.399	356.562	392.021
105	58.171	89.455	123.531	158.285	196.411	239.293	276.480	314.026	349.139	384.722
110	55.973	88.183	120.974	154.926	191.780	226.423	268.960	306.271	339.877	371.617
115	50.527	86.911	119.011	150.295	185.518	220.175	258.993	294.327	325.970	356.217
120	43.338	82.156	113.219	144.502	177.984	215.654	247.519	279.729	310.446	338.370
125	38.127	69.300	102.201	131.176	162.805	193.743	231.759	262.697	291.092	316.818
130	32.915	56.554	89.690	117.269	145.663	177.984	206.379	236.625	266.872	292.599
135	28.049	49.601	71.152	102.781	128.743	152.617	182.048	207.540	232.921	259.684

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**CANDELA TABULATION - (Cont.)**

140	24.220	41.486	58.641	80.774	111.242	133.720	158.409	180.071	201.167	223.064
145	21.206	33.261	49.255	63.964	85.515	114.490	134.190	154.704	170.809	188.532
150	20.169	30.247	40.905	55.268	68.484	83.207	110.426	131.065	144.157	155.396
155	18.427	27.579	36.385	44.956	57.356	68.595	80.884	95.607	110.426	122.481
160	16.575	23.985	31.519	38.942	45.536	52.835	61.074	69.880	82.156	87.368
165	14.488	19.589	26.072	31.519	36.730	42.523	46.241	53.416	57.826	63.383
170	13.091	15.870	19.354	23.750	27.689	31.173	34.187	38.002	40.905	43.684
175	12.746	13.216	14.363	15.759	17.501	19.354	21.095	23.528	24.800	25.837
180	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**Vert. Horizontal Angles**  
**Angles**

	<u>150</u>	<u>155</u>	<u>160</u>	<u>165</u>	<u>170</u>	<u>175</u>	<u>180</u>
0	7.354	7.354	7.354	7.354	7.354	7.354	7.354
5	25.146	26.072	26.763	27.344	27.689	27.924	27.814
10	47.969	49.822	51.564	52.960	53.762	54.342	54.467
15	72.189	75.673	78.451	80.649	82.280	83.082	83.428
20	98.385	103.362	107.426	110.661	112.873	114.366	114.725
25	126.185	132.683	138.240	142.650	145.774	147.751	148.332
30	155.506	163.856	171.031	176.837	180.776	183.431	184.246
35	185.988	196.411	205.342	212.641	217.742	220.977	222.262
40	217.507	230.142	240.911	249.952	256.435	260.499	261.426
45	249.482	264.660	277.531	288.300	296.304	300.824	302.676
50	281.125	298.847	314.150	326.896	336.048	341.840	343.692
55	311.828	332.343	349.720	364.442	375.100	381.819	384.252
60	341.494	364.442	384.363	401.172	412.881	420.761	422.959
65	368.258	393.528	415.536	433.728	446.944	455.515	458.418
70	389.699	416.821	440.101	459.579	472.200	481.006	483.439
75	406.509	435.815	460.851	478.573	493.296	502.793	505.461
80	420.637	449.612	473.596	493.641	508.474	518.331	521.220
85	428.171	457.602	481.711	502.212	517.170	526.432	529.100
90	431.184	460.270	484.020	504.770	519.368	528.519	531.878
95	429.678	458.763	482.167	502.447	517.280	526.086	529.335
100	424.701	453.082	475.103	495.259	509.981	518.787	521.690
105	415.425	442.658	463.284	483.674	497.470	506.387	508.944
110	401.753	427.936	450.192	464.791	479.969	488.319	490.628
115	383.561	408.942	430.493	447.289	459.689	466.173	468.841
120	364.788	387.736	407.545	423.305	434.654	442.078	444.276
125	341.024	361.885	380.077	394.108	404.642	411.485	413.448
130	314.496	333.145	349.609	362.355	371.852	377.990	379.621
135	285.867	302.676	317.275	328.514	336.863	342.185	343.692
140	246.247	269.540	283.212	292.944	300.354	304.875	306.146
145	206.849	225.967	247.049	256.214	262.462	266.292	267.453
150	169.759	184.357	200.821	218.198	223.755	226.893	227.820
155	132.448	143.811	156.211	170.809	183.555	186.444	187.260
160	91.197	94.791	103.486	114.255	129.324	136.512	137.203
165	67.668	70.461	71.028	75.438	82.156	95.482	96.409
170	45.080	46.006	44.734	41.721	43.684	50.402	57.701
175	26.418	26.653	26.542	24.800	22.022	21.552	27.814
180	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_707\_Z2\_CC\_SO\_35\_FA\_WH.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	9.43	N.A.	0.70
0-30	31.37	N.A.	2.20
0-40	74.24	N.A.	5.20
0-60	244.70	N.A.	17.30
0-80	527.77	N.A.	37.20
0-90	692.95	N.A.	48.90
10-90	691.65	N.A.	48.80
20-40	64.81	N.A.	4.60
20-50	134.71	N.A.	9.50
40-70	300.74	N.A.	21.20
60-80	283.07	N.A.	20.00
70-80	152.79	N.A.	10.80
80-90	165.19	N.A.	11.60
90-110	321.81	N.A.	22.70
90-120	458.10	N.A.	32.30
90-130	567.07	N.A.	40.00
90-150	691.76	N.A.	48.80
90-180	725.21	N.A.	51.10
110-180	403.40	N.A.	28.40
0-180	1418.16	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	1.31
10-20	8.12
20-30	21.94
30-40	42.86
40-50	69.91
50-60	100.55
60-70	130.28
70-80	152.79
80-90	165.19
90-100	165.92
100-110	155.89
110-120	136.29
120-130	108.97
130-140	77.20
140-150	47.49
150-160	23.74
160-170	8.31
170-180	1.40

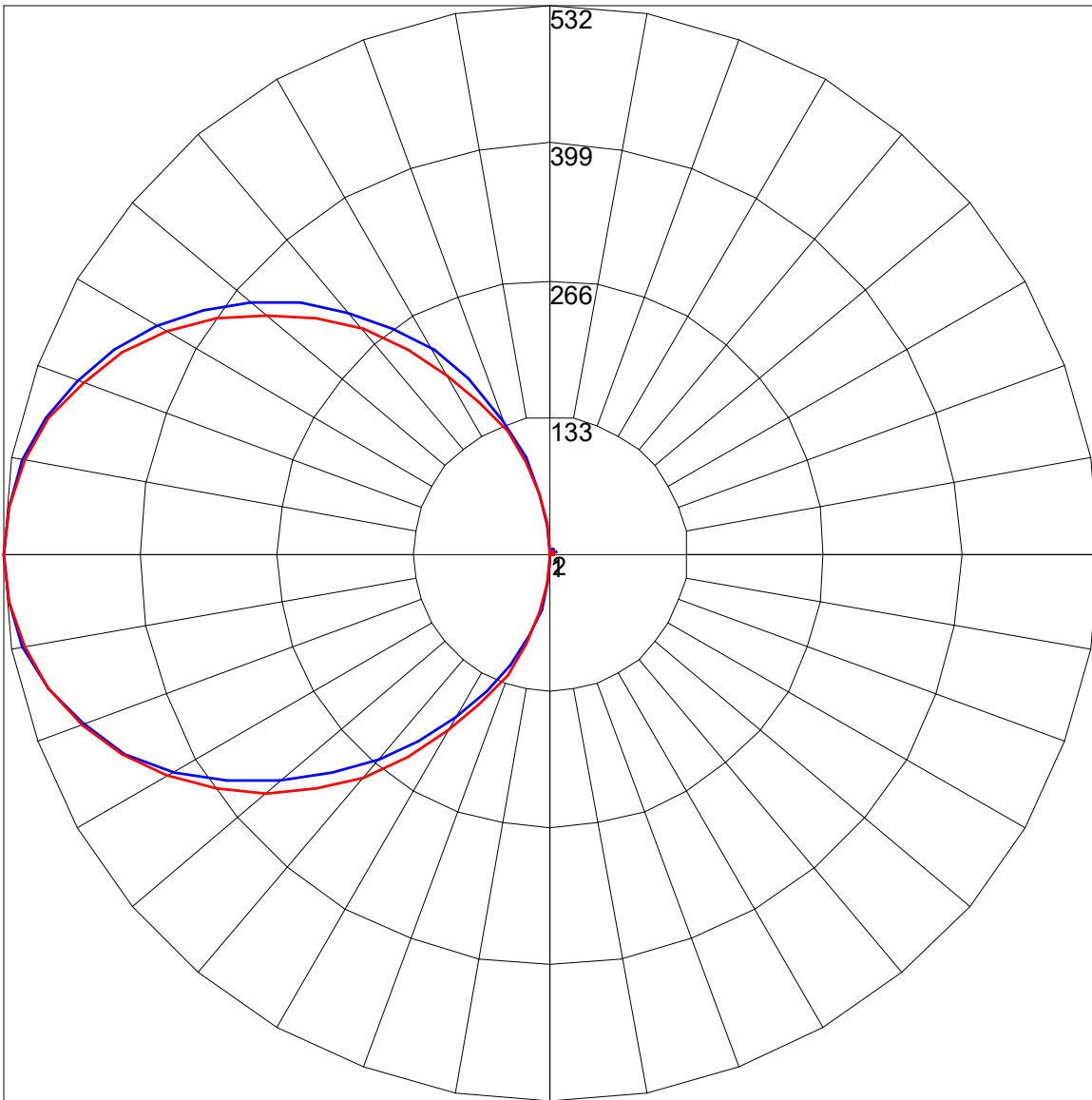
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_707\_Z2\_CC\_SO\_35\_FA\_WH.IES**

**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
	RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	
0	107	107	107	107	98	98	98	98	83	83	83	68	68	68	55	55	55	49
1	92	85	78	73	83	77	72	67	64	59	55	51	48	45	39	37	35	29
2	81	71	62	55	73	64	57	50	52	46	41	41	37	33	31	28	25	20
3	73	60	51	43	65	55	46	39	44	38	32	35	30	25	26	22	19	14
4	65	52	42	35	59	47	38	32	38	31	26	30	24	20	22	18	14	10
5	60	46	36	29	54	41	33	26	33	27	21	26	21	16	19	15	12	8
6	54	40	31	24	49	37	28	22	30	23	18	23	18	14	17	13	10	6
7	50	36	27	20	45	33	24	19	27	20	15	21	15	11	15	11	8	5
8	46	32	24	18	42	29	22	16	24	17	13	19	14	10	14	10	7	4
9	43	29	21	15	39	27	19	14	22	16	11	17	12	9	13	9	6	3
10	40	27	19	13	36	24	17	12	20	14	10	16	11	7	12	8	5	3

POLAR GRAPH



Maximum Candela = 531.878 Located At Horizontal Angle = 180, Vertical Angle = 90  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)  
# 2 - Horizontal Cone Through Vertical Angle (90) (Through Max. Cd.)