



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : TALEDPLUSSE-WALL.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] 3694  
[TESTLAB] TUV SUD America  
[ISSUEDATE] 8/23/2019 2:56:00 PM  
[MANUFAC] BEGHELLI NORTH AMERICA  
[LUMCAT] TALEDPLUSSE-WALL  
[LUMINAIRE] 3868-1  
[\_AMBIENT] 24.6 deg C  
[\_POWERFACTOR] 0.9966  
[\_ATHD] 7.10%  
[\_CURRENT] 0.18  
[\_VOLTAGE] 120.00  
[\_STABILIZATION] 61:10.0 Stable  
[\_POWER VARIATION] 0.46 %  
[\_LIGHT VARIATION] 0.25 %  
[\_Lumens] 2216.4

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	931
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	101
Total Luminaire Watts	9.25
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	3.24
Spacing Criterion (90-270)	1.20
Spacing Criterion (Diagonal)	1.90
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.08 ft
Luminous Width (90-270)	1.33 ft
Luminous Height	0.42 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	7446	6724	5875
55	7198	6213	4528
65	6764	5631	3248
75	6371	5104	2094
85	6133	4608	1703

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**CANDELA TABULATION**

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>	<u>202.5</u>
<b>0.0</b>	101.380	101.380	101.380	101.380	101.380	101.380	101.380	101.380	101.380	101.380
<b>2.5</b>	100.615	117.944	115.156	110.620	105.214	99.355	94.298	91.274	72.169	91.274
<b>5.0</b>	115.143	132.955	125.110	115.618	104.677	93.156	84.391	79.107	61.564	79.107
<b>7.5</b>	129.667	145.887	136.349	120.263	103.786	86.856	74.668	67.389	50.467	67.389
<b>10.0</b>	145.492	160.436	145.228	124.412	102.551	80.556	65.940	56.540	40.379	56.540
<b>12.5</b>	161.675	174.451	155.828	128.436	100.997	74.672	57.372	47.540	32.617	47.540
<b>15.0</b>	178.668	188.975	165.875	133.329	99.082	68.867	49.598	38.842	26.279	38.842
<b>17.5</b>	192.616	202.058	173.809	135.605	96.802	63.269	42.160	31.639	20.933	31.639
<b>20.0</b>	209.567	214.670	184.107	137.764	94.168	57.893	35.465	25.670	16.489	25.670
<b>22.5</b>	223.944	227.993	190.865	140.759	91.350	52.500	29.757	20.677	12.659	20.677
<b>25.0</b>	237.363	238.631	198.122	143.825	88.250	46.969	24.889	16.338	9.143	16.338
<b>27.5</b>	251.084	249.707	205.590	142.981	84.790	41.378	20.609	12.587	6.044	12.587
<b>30.0</b>	263.756	259.850	211.046	143.270	81.047	36.271	16.863	9.219	3.301	9.219
<b>32.5</b>	275.310	269.317	216.006	144.249	77.234	31.689	13.474	6.224	1.029	6.224
<b>35.0</b>	286.637	278.002	220.697	143.997	73.160	27.615	10.441	3.667	0.084	3.667
<b>37.5</b>	297.242	286.133	224.671	141.758	69.073	23.957	7.648	1.907	0.067	1.907
<b>40.0</b>	307.478	293.538	227.879	140.078	64.831	20.567	5.111	0.727	0.063	0.727
<b>42.5</b>	316.445	300.065	230.546	138.272	60.497	17.493	2.890	0.076	0.063	0.076
<b>45.0</b>	324.946	305.609	232.575	136.349	55.982	14.704	1.336	0.046	0.059	0.046
<b>47.5</b>	332.195	310.162	233.986	133.325	51.492	12.134	0.365	0.046	0.059	0.046
<b>50.0</b>	338.104	313.547	234.671	130.192	47.216	9.740	0.067	0.042	0.050	0.042
<b>52.5</b>	342.640	315.538	234.465	126.974	42.911	7.594	0.046	0.042	0.050	0.042
<b>55.0</b>	345.757	316.306	233.306	123.274	38.573	5.662	0.038	0.042	0.050	0.042
<b>57.5</b>	347.500	315.869	231.395	119.356	34.574	4.019	0.034	0.042	0.059	0.042
<b>60.0</b>	347.768	314.441	228.749	115.286	30.677	2.915	0.038	0.042	0.059	0.042
<b>62.5</b>	346.735	312.169	225.506	111.245	27.006	2.436	0.038	0.046	0.067	0.046
<b>65.0</b>	344.744	309.368	221.663	107.167	23.545	2.436	0.038	0.050	0.071	0.050
<b>67.5</b>	342.187	306.243	217.581	102.803	20.286	2.465	0.042	0.055	0.071	0.055
<b>70.0</b>	339.200	302.879	213.247	98.620	17.283	2.478	0.046	0.063	0.080	0.063
<b>72.5</b>	336.256	299.632	208.937	94.819	14.519	2.486	0.050	0.067	0.088	0.067
<b>75.0</b>	333.518	296.150	204.103	90.741	12.058	2.499	0.055	0.071	0.092	0.071
<b>77.5</b>	330.821	292.324	199.034	86.717	10.046	2.512	0.059	0.076	0.097	0.076
<b>80.0</b>	328.478	286.994	193.859	82.606	8.509	2.486	0.063	0.084	0.101	0.084
<b>82.5</b>	325.496	279.791	187.610	78.809	7.489	2.449	0.067	0.088	0.105	0.088
<b>85.0</b>	319.838	271.845	181.528	74.941	6.972	2.415	0.071	0.092	0.109	0.092
<b>87.5</b>	310.292	262.504	175.413	71.152	6.724	2.356	0.071	0.097	0.109	0.097
<b>90.0</b>	298.834	252.672	168.651	67.687	6.581	2.306	0.071	0.097	0.109	0.097
<b>92.5</b>	287.020	243.243	161.822	64.247	6.422	2.230	0.071	0.097	0.109	0.097
<b>95.0</b>	276.196	233.776	155.030	61.307	6.325	2.138	0.076	0.097	0.109	0.097
<b>97.5</b>	265.969	224.654	148.008	58.183	6.296	2.041	0.071	0.097	0.101	0.097
<b>100.0</b>	256.019	215.170	141.960	55.511	6.254	1.932	0.071	0.092	0.092	0.092
<b>102.5</b>	245.700	205.645	136.105	52.769	6.237	1.823	0.067	0.088	0.084	0.088
<b>105.0</b>	235.238	197.064	130.158	50.135	6.241	1.722	0.063	0.084	0.080	0.084
<b>107.5</b>	224.944	188.227	124.614	47.586	6.279	1.621	0.063	0.080	0.071	0.080
<b>110.0</b>	214.498	179.617	118.541	45.137	6.355	1.525	0.059	0.071	0.067	0.071
<b>112.5</b>	205.758	171.091	112.287	42.739	6.460	1.436	0.055	0.071	0.067	0.071
<b>115.0</b>	196.270	162.019	106.084	40.412	6.573	1.365	0.055	0.071	0.063	0.071
<b>117.5</b>	186.140	152.750	99.771	38.107	6.699	1.327	0.059	0.071	0.067	0.071
<b>120.0</b>	175.816	143.548	93.479	35.939	6.859	1.319	0.055	0.067	0.071	0.067
<b>122.5</b>	165.535	134.459	87.368	33.932	7.035	1.331	0.059	0.067	0.071	0.067
<b>125.0</b>	155.085	125.240	81.371	32.067	7.211	1.386	0.063	0.071	0.071	0.071
<b>127.5</b>	144.736	116.273	75.377	30.358	7.379	1.487	0.067	0.071	0.076	0.071
<b>130.0</b>	134.324	107.285	69.565	28.812	7.531	1.613	0.076	0.076	0.080	0.076
<b>132.5</b>	124.181	98.704	63.916	27.363	7.615	1.751	0.105	0.076	0.084	0.076

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**CANDELA TABULATION - (Cont.)**

135.0	114.282	90.174	58.397	25.973	7.615	1.915	0.185	0.080	0.088	0.080
137.5	104.580	81.942	53.222	24.620	7.531	2.083	0.281	0.076	0.084	0.076
140.0	95.151	73.937	48.350	23.058	7.375	2.247	0.416	0.088	0.080	0.088
142.5	85.932	66.410	43.940	21.042	7.174	2.398	0.580	0.134	0.113	0.134
145.0	77.003	59.216	39.992	18.547	6.909	2.520	0.760	0.197	0.193	0.197
147.5	68.552	52.517	36.347	15.758	6.598	2.608	0.932	0.294	0.235	0.294
150.0	60.421	46.553	32.894	13.331	6.275	2.671	1.084	0.407	0.235	0.407
152.5	53.197	41.257	29.198	11.369	5.935	2.722	1.218	0.521	0.294	0.521
155.0	46.805	36.506	25.103	9.799	5.565	2.759	1.331	0.613	0.340	0.613
157.5	41.076	31.912	19.996	8.560	5.200	2.764	1.428	0.638	0.395	0.638
160.0	35.927	27.157	14.956	7.518	4.805	2.743	1.470	0.685	0.407	0.685
162.5	31.248	20.408	10.668	6.418	4.406	2.705	1.449	0.676	0.403	0.676
165.0	26.246	14.582	7.497	5.439	3.998	2.633	1.378	0.731	0.462	0.731
167.5	20.089	9.786	5.326	4.633	3.574	2.516	1.268	0.823	0.546	0.823
170.0	10.630	5.284	4.292	3.881	3.146	2.339	1.180	0.924	0.634	0.924
172.5	5.128	3.759	3.457	3.255	2.768	2.163	1.172	1.008	0.722	1.008
175.0	2.562	2.667	2.772	2.659	2.377	1.961	1.319	1.079	0.827	1.079
177.5	1.243	1.831	2.344	2.255	2.146	1.865	1.533	1.382	0.949	1.382
180.0	1.680	1.680	1.680	1.680	1.680	1.680	1.680	1.680	1.680	1.680

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

	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
0.0	101.380	101.380	101.380	101.380	101.380	101.380	101.380
2.5	94.298	99.355	105.214	110.620	115.156	117.944	100.615
5.0	84.391	93.156	104.677	115.618	125.110	132.955	115.143
7.5	74.668	86.856	103.786	120.263	136.349	145.887	129.667
10.0	65.940	80.556	102.551	124.412	145.228	160.436	145.492
12.5	57.372	74.672	100.997	128.436	155.828	174.451	161.675
15.0	49.598	68.867	99.082	133.329	165.875	188.975	178.668
17.5	42.160	63.269	96.802	135.605	173.809	202.058	192.616
20.0	35.465	57.893	94.168	137.764	184.107	214.670	209.567
22.5	29.757	52.500	91.350	140.759	190.865	227.993	223.944
25.0	24.889	46.969	88.250	143.825	198.122	238.631	237.363
27.5	20.609	41.378	84.790	142.981	205.590	249.707	251.084
30.0	16.863	36.271	81.047	143.270	211.046	259.850	263.756
32.5	13.474	31.689	77.234	144.249	216.006	269.317	275.310
35.0	10.441	27.615	73.160	143.997	220.697	278.002	286.637
37.5	7.648	23.957	69.073	141.758	224.671	286.133	297.242
40.0	5.111	20.567	64.831	140.078	227.879	293.538	307.478
42.5	2.890	17.493	60.497	138.272	230.546	300.065	316.445
45.0	1.336	14.704	55.982	136.349	232.575	305.609	324.946
47.5	0.365	12.134	51.492	133.325	233.986	310.162	332.195
50.0	0.067	9.740	47.216	130.192	234.671	313.547	338.104
52.5	0.046	7.594	42.911	126.974	234.465	315.538	342.640
55.0	0.038	5.662	38.573	123.274	233.306	316.306	345.757
57.5	0.034	4.019	34.574	119.356	231.395	315.869	347.500
60.0	0.038	2.915	30.677	115.286	228.749	314.441	347.768
62.5	0.038	2.436	27.006	111.245	225.506	312.169	346.735
65.0	0.038	2.436	23.545	107.167	221.663	309.368	344.744
67.5	0.042	2.465	20.286	102.803	217.581	306.243	342.187
70.0	0.046	2.478	17.283	98.620	213.247	302.879	339.200
72.5	0.050	2.486	14.519	94.819	208.937	299.632	336.256
75.0	0.055	2.499	12.058	90.741	204.103	296.150	333.518
77.5	0.059	2.512	10.046	86.717	199.034	292.324	330.821
80.0	0.063	2.486	8.509	82.606	193.859	286.994	328.478

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**CANDELA TABULATION - (Cont.)**

82.5	0.067	2.449	7.489	78.809	187.610	279.791	325.496
85.0	0.071	2.415	6.972	74.941	181.528	271.845	319.838
87.5	0.071	2.356	6.724	71.152	175.413	262.504	310.292
90.0	0.071	2.306	6.581	67.687	168.651	252.672	298.834
92.5	0.071	2.230	6.422	64.247	161.822	243.243	287.020
95.0	0.076	2.138	6.325	61.307	155.030	233.776	276.196
97.5	0.071	2.041	6.296	58.183	148.008	224.654	265.969
100.0	0.071	1.932	6.254	55.511	141.960	215.170	256.019
102.5	0.067	1.823	6.237	52.769	136.105	205.645	245.700
105.0	0.063	1.722	6.241	50.135	130.158	197.064	235.238
107.5	0.063	1.621	6.279	47.586	124.614	188.227	224.944
110.0	0.059	1.525	6.355	45.137	118.541	179.617	214.498
112.5	0.055	1.436	6.460	42.739	112.287	171.091	205.758
115.0	0.055	1.365	6.573	40.412	106.084	162.019	196.270
117.5	0.059	1.327	6.699	38.107	99.771	152.750	186.140
120.0	0.055	1.319	6.859	35.939	93.479	143.548	175.816
122.5	0.059	1.331	7.035	33.932	87.368	134.459	165.535
125.0	0.063	1.386	7.211	32.067	81.371	125.240	155.085
127.5	0.067	1.487	7.379	30.358	75.377	116.273	144.736
130.0	0.076	1.613	7.531	28.812	69.565	107.285	134.324
132.5	0.105	1.751	7.615	27.363	63.916	98.704	124.181
135.0	0.185	1.915	7.615	25.973	58.397	90.174	114.282
137.5	0.281	2.083	7.531	24.620	53.222	81.942	104.580
140.0	0.416	2.247	7.375	23.058	48.350	73.937	95.151
142.5	0.580	2.398	7.174	21.042	43.940	66.410	85.932
145.0	0.760	2.520	6.909	18.547	39.992	59.216	77.003
147.5	0.932	2.608	6.598	15.758	36.347	52.517	68.552
150.0	1.084	2.671	6.275	13.331	32.894	46.553	60.421
152.5	1.218	2.722	5.935	11.369	29.198	41.257	53.197
155.0	1.331	2.759	5.565	9.799	25.103	36.506	46.805
157.5	1.428	2.764	5.200	8.560	19.996	31.912	41.076
160.0	1.470	2.743	4.805	7.518	14.956	27.157	35.927
162.5	1.449	2.705	4.406	6.418	10.668	20.408	31.248
165.0	1.378	2.633	3.998	5.439	7.497	14.582	26.246
167.5	1.268	2.516	3.574	4.633	5.326	9.786	20.089
170.0	1.180	2.339	3.146	3.881	4.292	5.284	10.630
172.5	1.172	2.163	2.768	3.255	3.457	3.759	5.128
175.0	1.319	1.961	2.377	2.659	2.772	2.667	2.562
177.5	1.533	1.865	2.146	2.255	2.344	1.831	1.243
180.0	1.680	1.680	1.680	1.680	1.680	1.680	1.680

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	39.85	N.A.	4.30
0-30	90.75	N.A.	9.70
0-40	161.44	N.A.	17.30
0-60	348.88	N.A.	37.50
0-80	554.66	N.A.	59.60
0-90	649.56	N.A.	69.80
10-90	639.72	N.A.	68.70
20-40	121.59	N.A.	13.10
20-50	209.45	N.A.	22.50
40-70	291.13	N.A.	31.30
60-80	205.78	N.A.	22.10
70-80	102.09	N.A.	11.00
80-90	94.90	N.A.	10.20
90-110	148.09	N.A.	15.90
90-120	199.58	N.A.	21.40
90-130	236.15	N.A.	25.40
90-150	272.92	N.A.	29.30
90-180	281.23	N.A.	30.20
110-180	133.14	N.A.	14.30
0-180	930.79	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	9.84
10-20	30.01
20-30	50.90
30-40	70.69
40-50	87.86
50-60	99.58
60-70	103.69
70-80	102.09
80-90	94.90
90-100	81.48
100-110	66.61
110-120	51.49
120-130	36.57
130-140	23.53
140-150	13.24
150-160	6.18
160-170	1.88
170-180	0.24

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**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	10	0
0	112	112	112	112	106	106	106	106	94	94	94	84	84	84	74	74	74	70
1	97	91	85	79	91	85	80	75	75	71	67	66	63	60	58	55	53	48
2	86	76	68	61	81	72	64	58	63	57	52	55	50	46	48	44	41	37
3	78	65	56	48	72	61	53	46	54	47	41	47	42	37	41	36	32	29
4	70	57	47	40	66	54	45	38	47	40	34	41	35	30	36	31	27	23
5	64	50	40	33	60	47	38	31	42	34	28	36	30	25	31	26	22	19
6	59	45	35	28	55	42	33	27	37	30	24	33	26	22	28	23	19	16
7	54	40	31	24	51	38	29	23	33	26	21	29	23	19	26	20	17	14
8	50	36	27	21	47	34	26	20	30	23	18	27	21	16	23	18	14	12
9	47	33	24	19	44	31	23	18	28	21	16	24	19	14	21	16	13	11
10	44	30	22	17	41	28	21	16	25	19	14	23	17	13	20	15	12	9

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : TALEDPLUSSE-WALL.IES**

**UGR TABLE - CORRECTED**

Reflectances

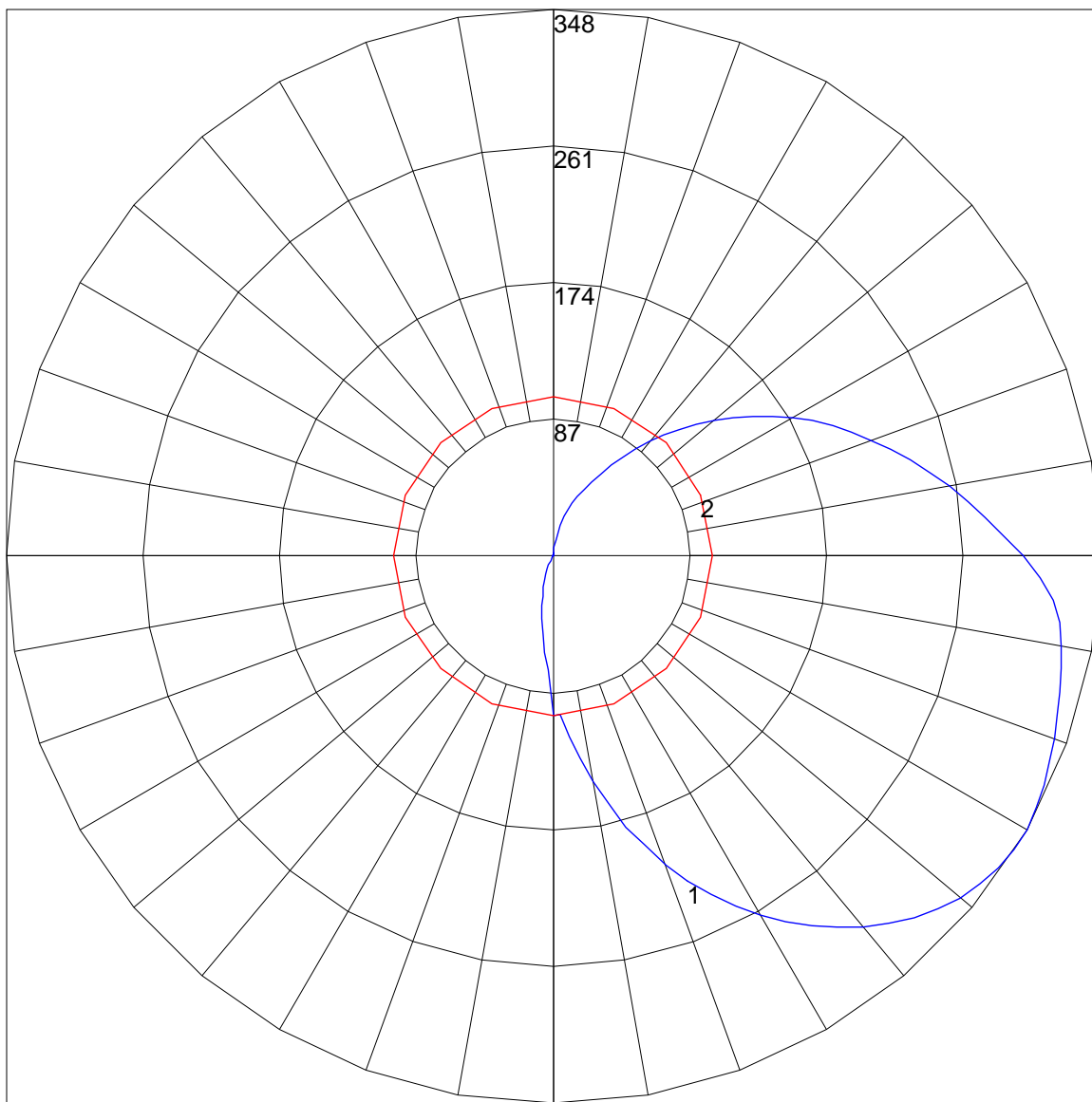
Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20

Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	20.3	21.6	21.1	22.4	23.3	10.1	11.4	10.8	12.1	13.1
	3H	22.9	24.1	23.7	24.9	25.9	11.1	12.3	11.9	13.1	14.1
	4H	24.2	25.3	25.0	26.1	27.1	11.5	12.6	12.2	13.4	14.3
	6H	25.4	26.5	26.2	27.3	28.3	11.6	12.7	12.4	13.5	14.5
	8H	26.0	27.0	26.8	27.8	28.8	11.7	12.7	12.5	13.5	14.5
	12H	26.6	27.5	27.4	28.4	29.4	11.7	12.7	12.5	13.5	14.5
4H	2H	20.8	21.9	21.5	22.7	23.6	13.7	14.8	14.5	15.6	16.6
	3H	23.7	24.6	24.4	25.5	26.5	15.1	16.1	15.9	16.9	17.9
	4H	25.1	26.0	25.9	26.9	27.9	15.6	16.5	16.4	17.3	18.3
	6H	26.6	27.4	27.4	28.2	29.3	15.8	16.6	16.6	17.5	18.5
	8H	27.3	28.0	28.1	28.9	29.9	15.9	16.7	16.7	17.5	18.6
	12H	28.0	28.7	28.8	29.5	30.6	16.0	16.7	16.8	17.5	18.6
8H	4H	25.4	26.2	26.2	27.0	28.1	18.0	18.8	18.8	19.6	20.7
	6H	27.1	27.8	27.9	28.6	29.7	18.6	19.3	19.5	20.2	21.2
	8H	28.0	28.6	28.8	29.4	30.5	18.8	19.4	19.7	20.3	21.4
	12H	28.8	29.4	29.7	30.3	31.4	18.9	19.5	19.8	20.4	21.5
12H	4H	25.4	26.1	26.3	27.0	28.0	18.8	19.5	19.6	20.4	21.4
	6H	27.2	27.8	28.0	28.6	29.7	19.6	20.2	20.5	21.1	22.2
	8H	28.1	28.7	29.0	29.5	30.6	20.0	20.5	20.8	21.4	22.5

Maximum UGR = 31.4



POLAR GRAPH



Maximum Candela = 347.768 Located At Horizontal Angle = 0, Vertical Angle = 60  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (0)