



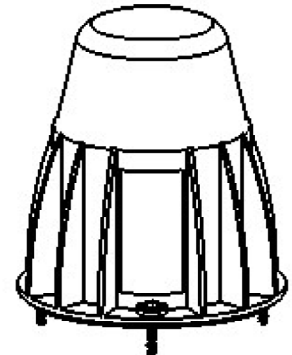
IES INDOOR REPORT
PHOTOMETRIC FILENAME : 15924 PROSERIES AG LED UTILITY LAMP.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GO21052501
[TESTLAB] Great One Global Certification Co., Ltd.
[TESTDATE] 18 June 2021
[ISSUEDATE] 2021-06-18
[NEARFIELD]
[LAMPPOSITION] 0,0
[OTHER] EVERFINE GO-R5000_V2 SYSTEM
[MANUFAC] Engineered Products Co.
[LUMCAT] 15924

CHARACTERISTICS

Lumens Per Lamp	1028.5 (1 lamp)
Total Lamp Lumens	1028.5
Luminaire Lumens	1029
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	95
Total Luminaire Watts	10.8774
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.26
Spacing Criterion (90-270)	1.30
Spacing Criterion (Diagonal)	1.44
Basic Luminous Shape	Circular w/ Sides
Luminous Length (0-180)	0.25 ft (Diameter)
Luminous Width (90-270)	0.25 ft (Diameter)
Luminous Height	0.15 ft



LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	32739	33404	34417
55	29207	30103	31237
65	25386	26274	27677
75	21176	22240	23612
85	17564	18547	19912

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CANDELA TABULATION

	<u>0</u>	<u>10</u>	<u>20</u>	<u>30</u>	<u>40</u>	<u>50</u>	<u>60</u>	<u>70</u>	<u>80</u>	<u>90</u>
0	264.140	264.140	264.140	264.140	264.140	264.140	264.140	264.140	264.140	264.140
5	262.540	262.960	262.480	263.410	263.400	262.580	263.790	263.900	262.840	264.140
10	257.730	259.010	259.050	259.640	259.200	258.970	261.360	260.590	260.310	261.510
15	251.890	252.610	252.960	253.990	254.540	254.760	256.130	255.690	255.720	257.070
20	243.930	244.210	245.250	246.850	246.610	247.350	249.660	248.890	249.460	250.290
25	234.490	234.720	235.430	236.090	237.430	237.670	239.130	239.940	239.900	241.810
30	222.760	223.240	224.240	225.290	226.070	226.850	228.640	229.590	229.490	230.970
35	209.820	212.150	211.350	212.810	214.150	214.880	216.900	217.560	218.240	219.540
40	198.270	199.480	200.130	201.070	201.700	202.850	205.280	205.630	206.500	207.910
45	186.400	187.460	188.080	188.880	189.730	190.640	193.060	193.260	193.870	195.950
50	173.880	174.880	175.660	176.280	177.670	178.880	180.510	181.430	183.010	184.120
55	159.900	161.050	162.230	162.970	164.330	165.280	167.540	168.500	169.690	171.010
60	145.180	145.630	147.190	148.370	149.280	150.740	152.550	153.830	154.790	156.760
65	129.200	129.930	130.850	132.160	133.380	134.060	136.580	137.720	139.010	140.860
70	112.380	113.540	113.980	115.620	116.940	117.850	120.010	121.270	122.340	124.150
75	96.345	97.252	97.913	99.282	100.620	101.750	103.270	104.650	105.780	107.430
80	81.462	82.280	82.864	83.873	85.157	86.457	87.915	88.920	90.162	91.752
85	68.003	68.307	69.121	70.075	71.467	72.152	73.545	74.641	75.688	77.094
90	55.407	55.405	55.511	57.214	58.200	59.185	60.509	61.380	62.436	63.717
95	39.866	38.480	36.292	39.695	41.408	42.022	43.235	44.350	45.581	47.544
100	16.478	15.348	14.385	16.112	17.125	17.474	18.142	18.816	19.500	20.659
105	13.806	12.864	12.062	13.874	14.744	2.293	15.614	16.189	16.776	3.878
110	11.134	10.381	9.738	11.636	12.364	1.920	13.086	13.562	14.051	0.346
115	8.462	7.897	7.415	9.398	9.983	1.547	10.558	10.936	11.327	0.362
120	5.790	5.413	5.092	7.160	7.603	1.174	8.030	8.309	8.602	0.395
125	5.029	2.930	4.518	4.922	5.223	0.801	5.502	5.682	5.878	0.428
130	4.267	2.584	3.943	4.287	2.842	0.428	4.901	3.056	3.153	0.477
135	3.506	2.239	3.369	3.653	0.462	0.439	4.300	0.429	2.804	0.510
140	2.745	1.893	2.794	3.018	0.465	0.450	3.699	0.439	2.455	0.527
145	1.984	1.548	2.220	2.384	0.469	0.461	3.098	0.449	2.106	0.543
150	1.223	1.203	1.645	1.749	0.472	0.472	2.497	0.458	1.756	0.592
155	0.462	0.857	1.071	1.114	0.475	0.483	1.896	0.468	1.407	0.576
160	0.495	0.512	0.496	0.480	0.479	0.494	1.295	0.478	1.058	0.642
165	0.708	0.677	0.677	0.678	0.677	0.675	0.694	0.708	0.709	0.724
170	0.759	0.743	0.710	0.727	0.742	0.724	0.744	0.709	0.758	0.707
175	0.742	0.727	0.710	0.727	0.742	0.724	0.744	0.709	0.758	0.707
180	0.744	0.744	0.744	0.744	0.744	0.744	0.744	0.744	0.744	0.744

Vert. Angles **Horizontal Angles**

	<u>100</u>	<u>110</u>	<u>120</u>	<u>130</u>	<u>140</u>	<u>150</u>	<u>160</u>	<u>170</u>	<u>180</u>	<u>190</u>
0	264.140	264.140	264.140	264.140	264.140	264.140	264.140	264.140	264.140	264.140
5	263.850	264.030	263.690	265.070	264.750	263.250	264.130	263.130	263.810	262.910
10	260.990	261.660	261.300	262.050	261.680	260.490	260.680	260.250	259.700	259.810
15	257.120	256.830	256.650	257.470	257.120	255.400	255.620	255.450	254.530	254.110
20	251.080	250.530	250.850	251.350	250.600	249.100	249.510	248.990	247.670	248.030
25	242.320	241.830	242.460	242.500	241.900	240.730	241.050	239.800	238.570	238.410
30	231.700	231.720	231.710	232.580	232.030	230.190	230.140	229.530	228.640	228.000
35	220.620	220.600	220.660	220.780	220.610	219.060	218.840	218.280	217.700	217.130
40	208.910	208.890	208.830	209.030	208.970	207.250	206.810	206.460	205.290	205.260
45	196.960	197.250	197.300	197.450	197.230	195.380	195.100	194.870	194.030	193.620
50	184.920	185.380	185.260	185.130	185.250	183.570	183.280	183.090	181.870	181.660
55	172.250	172.750	172.560	172.450	172.340	170.800	170.640	170.400	169.560	169.080
60	157.750	158.310	158.320	158.260	158.060	157.020	156.990	156.760	155.890	155.780

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CANDELA TABULATION - (Cont.)

65	142.260	142.430	142.740	143.010	142.750	141.860	141.890	141.610	140.920	140.840
70	125.490	125.970	126.160	126.520	126.250	125.630	125.660	125.560	125.230	124.910
75	108.540	109.570	109.650	109.920	109.980	109.400	109.390	109.350	109.000	109.000
80	92.917	93.482	93.797	93.799	93.957	93.577	93.644	93.519	93.281	93.135
85	78.306	78.774	78.995	79.053	79.020	78.758	78.856	78.717	78.394	78.458
90	64.620	65.294	65.468	65.252	64.984	64.715	65.110	64.849	64.569	64.439
95	48.690	49.587	50.103	48.451	45.505	48.837	49.344	48.454	47.335	46.264
100	21.520	22.173	22.591	20.983	20.012	21.741	21.708	21.007	20.130	19.351
105	4.430	4.792	5.074	4.760	3.541	4.762	4.365	3.836	3.302	2.791
110	0.329	0.362	0.362	0.347	0.331	0.329	0.347	0.331	0.346	0.347
115	0.395	0.362	0.379	0.364	0.380	0.362	0.363	0.364	0.363	0.380
120	0.395	0.379	0.395	0.396	0.381	0.395	0.396	0.397	0.396	0.397
125	0.428	0.428	0.412	0.413	0.430	0.428	0.429	0.430	0.429	0.430
130	0.478	0.445	0.461	0.446	0.463	0.461	0.462	0.463	0.478	0.479
135	0.478	0.461	0.461	0.479	0.480	0.494	0.495	0.496	0.495	0.496
140	0.494	0.494	0.527	0.502	0.513	0.510	0.512	0.529	0.528	0.529
145	0.511	0.511	0.527	0.526	0.530	0.556	0.578	0.562	0.577	0.578
150	0.577	0.560	0.560	0.549	0.546	0.602	0.578	0.579	0.594	0.595
155	0.609	0.560	0.577	0.572	0.563	0.648	0.594	0.595	0.610	0.595
160	0.626	0.626	0.626	0.595	0.629	0.694	0.627	0.661	0.644	0.645
165	0.708	0.725	0.741	0.727	0.728	0.740	0.726	0.744	0.726	0.743
170	0.708	0.758	0.758	0.760	0.778	0.741	0.743	0.744	0.742	0.743
175	0.708	0.758	0.758	0.760	0.778	0.741	0.743	0.744	0.742	0.743
180	0.744	0.744	0.744	0.744	0.744	0.744	0.744	0.744	0.744	0.744

**Vert.
Angles**

Horizontal Angles

	<u>200</u>	<u>210</u>	<u>220</u>	<u>230</u>	<u>240</u>	<u>250</u>	<u>260</u>	<u>270</u>	<u>280</u>	<u>290</u>
0	264.140	264.140	264.140	264.140	264.140	264.140	264.140	264.140	264.140	264.140
5	262.750	262.900	261.920	261.500	262.360	262.430	262.120	261.400	261.190	261.400
10	258.830	258.510	258.330	257.190	257.820	257.380	257.090	256.930	256.880	256.580
15	253.960	253.090	252.480	251.920	253.430	251.640	251.520	251.040	251.660	251.330
20	246.180	246.290	244.930	245.280	245.460	244.660	243.990	243.900	243.530	243.480
25	237.820	237.360	237.020	236.200	236.890	236.060	234.920	234.290	233.990	234.040
30	227.450	227.270	226.260	225.390	226.530	225.290	224.620	223.600	222.800	223.000
35	216.240	216.090	214.900	214.300	215.230	213.910	212.920	211.950	211.550	210.770
40	204.800	204.350	203.330	202.740	203.470	202.300	201.450	200.060	199.050	198.920
45	192.890	192.380	191.730	191.390	192.270	190.480	189.880	187.840	187.170	186.720
50	181.090	180.710	180.600	179.510	180.170	178.360	177.550	176.260	175.480	174.660
55	168.630	168.350	167.870	166.710	167.120	166.070	164.810	163.090	161.850	161.350
60	155.240	155.070	154.420	153.120	153.290	151.730	150.790	148.810	147.630	146.920
65	140.430	140.160	139.510	138.210	138.400	136.810	135.430	133.760	132.350	131.600
70	124.400	124.410	123.360	122.560	122.180	120.880	119.670	117.680	116.440	115.380
75	108.470	108.160	107.480	106.350	106.190	104.930	103.590	101.960	100.870	99.652
80	93.091	92.765	92.029	91.164	90.695	89.512	88.578	86.863	85.690	84.657
85	78.187	78.064	77.299	76.632	76.228	75.068	74.036	72.754	71.766	70.871
90	64.094	63.992	63.334	62.799	62.658	60.908	59.283	59.125	59.066	58.288
95	45.457	44.436	43.469	42.716	42.553	40.068	37.652	39.549	40.469	40.168
100	18.673	18.048	17.471	17.054	16.936	15.290	14.401	15.591	16.258	16.256
105	2.389	1.995	1.708	1.540	1.453	1.425	1.091	13.427	13.999	13.623
110	0.347	0.347	0.347	0.346	0.364	0.363	0.362	11.263	11.740	10.991
115	0.363	0.396	0.379	0.362	0.380	0.412	0.395	9.099	9.481	8.358
120	0.396	0.413	0.412	0.395	0.414	0.412	0.428	6.936	7.222	5.726
125	0.429	0.446	0.445	0.444	0.447	0.429	0.478	4.772	4.963	4.976
130	0.462	0.463	0.478	0.461	0.463	0.495	0.494	4.056	4.215	4.227
135	0.495	0.496	0.528	0.510	0.529	0.528	0.527	3.340	3.468	3.477

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CANDELA TABULATION - (Cont.)

140	0.528	0.545	0.528	0.527	0.562	0.561	0.560	2.625	2.720	2.727
145	0.561	0.578	0.577	0.576	0.602	0.577	0.593	1.909	1.973	1.977
150	0.594	0.578	0.594	0.626	0.642	0.627	0.609	1.193	1.225	1.227
155	0.611	0.595	0.610	0.609	0.681	0.627	0.626	0.477	0.478	0.478
160	0.676	0.661	0.644	0.675	0.721	0.677	0.659	0.493	0.561	0.561
165	0.759	0.727	0.742	0.741	0.761	0.758	0.725	0.674	0.692	0.725
170	0.726	0.727	0.726	0.741	0.744	0.742	0.708	0.707	0.741	0.725
175	0.726	0.727	0.726	0.741	0.728	0.742	0.708	0.707	0.758	0.758
180	0.744	0.744	0.744	0.744	0.744	0.744	0.744	0.744	0.744	0.744

**Vert.
Angles**

Horizontal Angles

	<u>300</u>	<u>310</u>	<u>320</u>	<u>330</u>	<u>340</u>	<u>350</u>	<u>360</u>
0	264.140	264.140	264.140	264.140	264.140	264.140	264.140
5	261.740	261.940	263.080	261.200	262.480	262.980	262.540
10	256.970	257.410	258.270	256.830	257.910	258.880	257.730
15	251.340	251.230	252.450	251.080	252.100	252.000	251.890
20	243.670	244.190	244.350	243.460	244.060	244.000	243.930
25	233.870	233.970	234.100	233.190	233.380	233.990	234.490
30	221.830	222.950	223.610	221.450	222.940	222.720	222.760
35	210.660	211.070	211.060	209.240	209.470	210.380	209.820
40	199.130	199.200	199.150	197.620	198.250	198.720	198.270
45	186.920	186.990	187.010	186.240	186.320	186.810	186.400
50	174.190	174.440	174.150	173.110	173.100	173.770	173.880
55	161.070	161.020	161.010	159.560	159.790	160.020	159.900
60	146.450	146.710	145.340	144.510	144.630	145.480	145.180
65	130.720	130.310	130.100	128.490	128.720	128.830	129.200
70	114.380	113.980	113.700	112.010	112.160	112.320	112.380
75	98.873	98.477	97.601	96.228	96.031	96.241	96.345
80	83.915	83.363	82.448	81.221	81.193	81.286	81.462
85	70.250	69.594	68.798	67.922	67.683	67.641	68.003
90	57.498	57.018	56.495	55.398	55.257	55.125	55.407
95	40.037	40.186	39.934	39.639	39.656	39.823	39.866
100	16.317	16.430	16.483	16.371	16.325	16.459	16.478
105	13.674	13.766	14.192	1.683	13.678	13.790	13.806
110	11.032	11.102	11.901	1.436	11.032	11.121	11.134
115	8.389	8.438	9.610	1.188	8.385	8.453	8.462
120	5.747	5.774	7.319	0.940	5.739	5.784	5.790
125	5.187	5.114	5.029	0.692	4.987	3.115	5.029
130	4.627	4.454	4.383	0.662	4.236	2.679	4.267
135	4.067	3.795	3.738	0.631	3.484	2.242	3.506
140	3.507	3.135	3.093	0.601	2.733	1.805	2.745
145	2.948	2.475	2.448	0.570	1.982	1.369	1.984
150	2.388	1.815	1.803	0.540	1.230	0.932	1.223
155	1.828	1.155	1.158	0.509	0.479	0.495	0.462
160	1.268	0.495	0.513	0.479	0.496	0.496	0.495
165	0.709	0.743	0.695	0.691	0.693	0.727	0.708
170	0.709	0.743	0.728	0.724	0.726	0.711	0.759
175	0.742	0.760	0.728	0.724	0.726	0.711	0.742
180	0.744	0.744	0.744	0.744	0.744	0.744	0.744

IES INDOOR REPORT
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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	96.65	9.40	9.40
0-30	206.16	20.00	20.00
0-40	341.00	33.20	33.20
0-60	637.60	62.00	62.00
0-80	882.56	85.80	85.80
0-90	963.70	93.70	93.70
10-90	938.73	91.30	91.30
20-40	244.35	23.80	23.80
20-50	392.31	38.10	38.10
40-70	431.57	42.00	42.00
60-80	244.96	23.80	23.80
70-80	109.98	10.70	10.70
80-90	81.15	7.90	7.90
90-110	55.61	5.40	5.40
90-120	59.91	5.80	5.80
90-130	62.17	6.00	6.00
90-150	64.21	6.20	6.20
90-180	64.83	6.30	6.30
110-180	9.22	0.90	0.90
0-180	1028.53	100.00	100.00

Total Luminaire Efficiency = 100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	24.97
10-20	71.68
20-30	109.51
30-40	134.84
40-50	147.96
50-60	148.64
60-70	134.98
70-80	109.98
80-90	81.15
90-100	45.14
100-110	10.47
110-120	4.30
120-130	2.26
130-140	1.29
140-150	0.74
150-160	0.36
160-170	0.20
170-180	0.07

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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	118	118	118	118	114	114	114	114	108	108	108	102	102	102	96	96	96	94
1	104	98	92	87	100	95	90	85	89	85	81	84	81	78	80	77	74	72
2	93	84	75	69	90	81	74	67	76	70	65	72	67	62	68	64	60	57
3	84	72	63	56	81	70	62	55	66	59	53	63	56	51	59	54	49	47
4	77	64	54	46	74	62	53	46	58	51	44	55	48	43	52	46	42	39
5	70	56	47	39	68	55	46	39	52	44	38	49	42	37	47	41	36	33
6	65	51	41	34	62	49	40	34	47	39	33	44	37	32	42	36	31	29
7	60	46	36	30	58	45	36	29	42	35	29	40	33	28	38	32	27	25
8	56	42	33	26	54	41	32	26	39	31	26	37	30	25	35	29	24	22
9	52	38	29	24	50	37	29	23	36	28	23	34	27	22	32	26	22	20
10	49	35	27	21	47	34	26	21	33	26	21	31	25	20	30	24	20	18

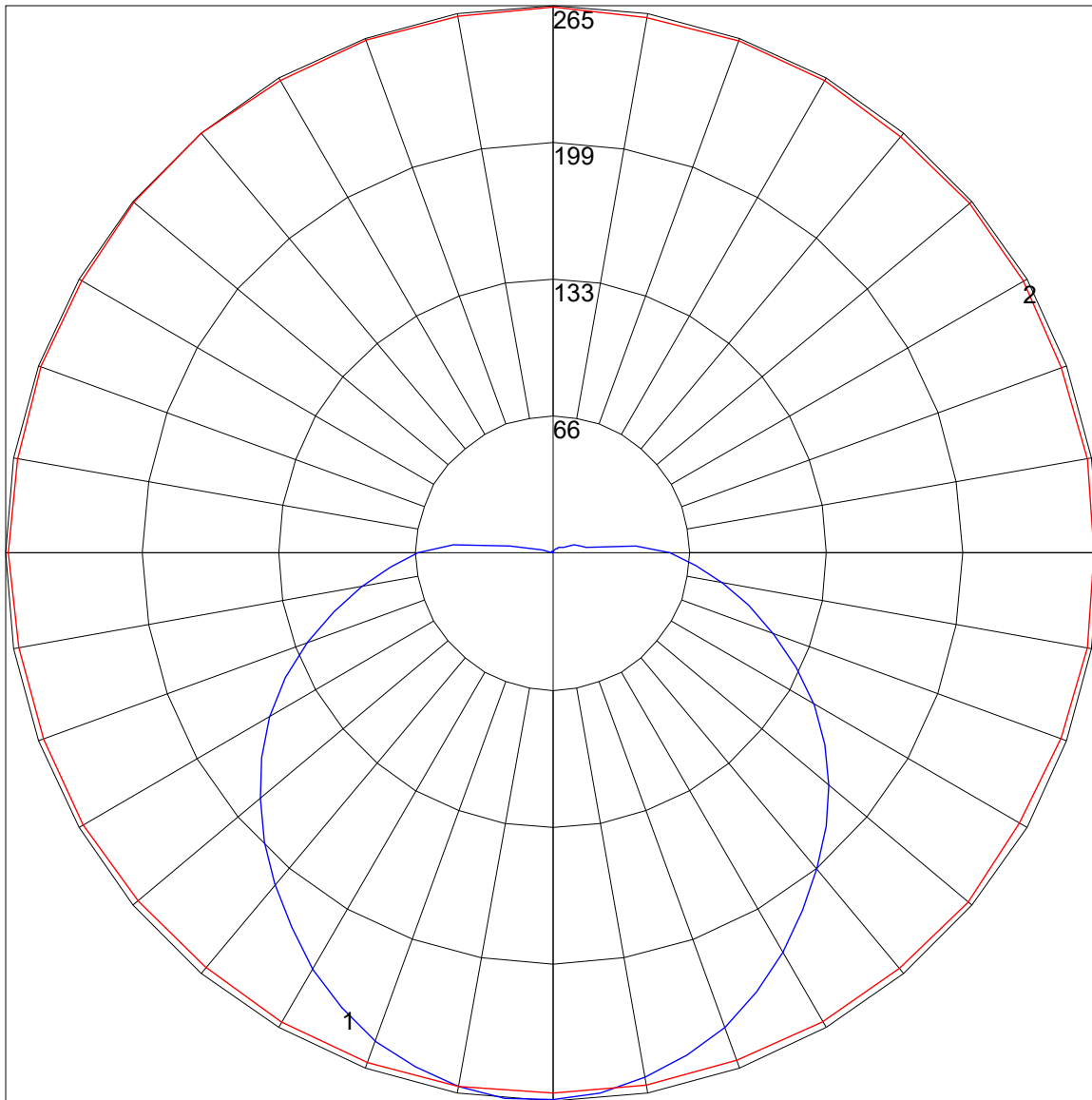
IES INDOOR REPORT
PHOTOMETRIC FILENAME : 15924 PROSERIES AG LED UTILITY LAMP.IES

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	22.3	23.9	22.7	24.3	24.8	22.7	24.3	23.1	24.8	25.2
	3H	24.3	25.8	24.8	26.3	26.8	24.9	26.4	25.3	26.8	27.3
	4H	25.2	26.7	25.7	27.1	27.6	25.8	27.2	26.3	27.7	28.2
	6H	26.1	27.4	26.6	27.9	28.4	26.7	28.0	27.2	28.5	29.0
	8H	26.5	27.7	27.0	28.2	28.8	27.1	28.4	27.6	28.9	29.4
	12H	26.8	28.0	27.3	28.5	29.1	27.5	28.7	28.0	29.2	29.8
4H	2H	22.9	24.3	23.4	24.8	25.3	23.3	24.7	23.8	25.2	25.7
	3H	25.2	26.4	25.7	26.9	27.5	25.7	26.9	26.2	27.4	28.0
	4H	26.2	27.4	26.8	27.9	28.4	26.8	27.9	27.3	28.4	29.0
	6H	27.2	28.2	27.8	28.8	29.4	27.8	28.8	28.4	29.4	30.0
	8H	27.7	28.6	28.2	29.2	29.8	28.3	29.3	28.9	29.8	30.4
	12H	28.1	29.0	28.7	29.6	30.2	28.8	29.7	29.4	30.2	30.8
8H	4H	26.6	27.6	27.2	28.1	28.7	27.2	28.1	27.7	28.7	29.3
	6H	27.8	28.6	28.4	29.2	29.8	28.4	29.2	29.0	29.8	30.4
	8H	28.4	29.1	29.0	29.7	30.3	29.0	29.7	29.6	30.3	30.9
	12H	29.0	29.6	29.5	30.2	30.9	29.6	30.3	30.2	30.9	31.6
12H	4H	26.7	27.6	27.3	28.2	28.8	27.2	28.1	27.8	28.7	29.3
	6H	27.9	28.7	28.5	29.2	29.9	28.5	29.3	29.1	29.8	30.5
	8H	28.6	29.2	29.2	29.8	30.5	29.2	29.9	29.8	30.4	31.1

Maximum UGR = 31.6

POLAR GRAPH



Maximum Candela = 265.07 Located At Horizontal Angle = 130, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (130 - 310) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)