



IES INDOOR REPORT

PHOTOMETRIC FILENAME : TALEDPLUSSA-CEILING.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] 3693
[TESTLAB] TUV SUD America
[ISSUEDATE] 8/23/2019 1:21:49 PM
[MANUFAC] BEGHELLI NORTH AMERICA
[LUMCAT] TALEDPLUSSA-CEILING
[LUMINAIRE] 3868-2
[_AMBIENT] 24.5 deg C
[_POWERFACTOR] 0.9966
[_ATHD] 7.15%
[_CURRENT] 0.18
[_VOLTAGE] 119.81
[_STABILIZATION] 64:00.0 Stable
[_POWER VARIATION] 0.46 %
[_LIGHT VARIATION] 0.46 %
[_Lumens] 2288.5

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2601
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	104
Total Luminaire Watts	25
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.40
Spacing Criterion (90-270)	1.22
Spacing Criterion (Diagonal)	1.36
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.42 ft
Luminous Width (90-270)	1.33 ft
Luminous Height	0.08 ft

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LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	15305	13553	12672
55	15099	12640	11096
65	15038	11569	9245
75	15221	10593	6897
85	18007	10797	4341

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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>
0.0	825.526	825.526	825.526	825.526	825.526	825.526	825.526	825.526	825.526	825.526
2.5	826.697	841.129	838.163	833.072	827.072	821.640	817.503	814.901	794.139	814.901
5.0	841.527	848.902	844.697	835.595	823.810	812.924	804.594	799.616	777.138	799.616
7.5	854.368	851.289	847.357	835.947	818.253	802.196	790.184	783.457	759.297	783.457
10.0	859.937	847.118	845.823	833.799	810.628	789.616	774.673	765.445	737.274	765.445
12.5	856.107	837.356	838.629	828.617	800.503	774.900	757.342	745.115	712.636	745.115
15.0	843.902	824.345	826.254	820.356	788.287	758.456	737.808	723.853	689.636	723.853
17.5	827.197	809.049	810.708	809.026	773.502	739.944	716.227	700.761	663.919	700.761
20.0	812.856	794.435	793.025	794.628	756.672	720.091	693.477	676.090	640.282	676.090
22.5	800.151	780.525	774.309	777.161	738.046	698.193	669.237	653.203	621.940	653.203
25.0	788.696	766.854	755.661	756.922	717.262	674.544	643.736	631.770	608.349	631.770
27.5	777.082	753.115	737.046	733.842	694.659	649.373	619.054	612.520	597.883	612.520
30.0	764.956	738.399	717.898	708.375	669.885	622.781	595.189	597.110	591.019	597.110
32.5	752.285	722.739	698.443	681.374	643.202	595.349	572.450	584.655	584.519	584.655
35.0	738.796	706.182	677.840	653.169	614.554	567.530	551.097	573.552	574.746	573.552
37.5	723.807	688.386	656.112	624.031	585.007	538.767	532.074	562.427	562.257	562.427
40.0	707.466	668.749	633.213	594.814	554.722	509.221	514.641	550.915	547.324	550.915
42.5	689.067	647.305	609.349	564.723	522.574	480.095	497.595	536.892	530.153	536.892
45.0	667.874	624.656	584.382	534.188	489.777	451.469	480.038	520.687	511.096	520.687
47.5	645.850	600.417	557.836	503.380	456.515	422.786	461.822	502.277	491.118	502.277
50.0	622.315	574.552	530.244	472.026	423.673	394.899	441.991	482.072	469.617	482.072
52.5	597.690	548.563	501.050	439.741	390.081	367.682	419.991	460.753	447.310	460.753
55.0	572.552	521.824	471.663	407.445	356.614	341.590	396.774	438.446	423.468	438.446
57.5	546.438	494.652	442.276	374.671	323.715	316.078	372.569	414.684	398.354	414.684
60.0	519.733	466.924	412.013	342.556	291.589	290.430	347.602	389.876	373.364	389.876
62.5	493.607	438.253	381.433	310.214	259.372	264.338	321.522	364.432	348.068	364.432
65.0	466.879	409.445	351.454	277.736	227.916	238.769	295.271	339.090	322.840	339.090
67.5	437.866	380.819	322.169	246.497	197.449	212.802	269.486	313.305	297.532	313.305
70.0	407.627	353.352	292.475	215.223	167.789	187.336	243.394	288.498	274.054	288.498
72.5	379.194	326.988	264.543	186.597	140.243	161.937	218.212	264.827	252.724	264.827
75.0	353.614	302.396	238.564	159.221	113.231	137.516	194.438	240.678	228.019	240.678
77.5	330.420	279.543	214.416	134.152	88.457	114.720	172.074	217.143	204.961	217.143
80.0	308.760	257.565	191.927	112.185	66.070	94.673	149.596	196.415	184.529	196.415
82.5	287.225	235.712	171.619	93.537	47.047	75.764	130.822	174.665	165.176	174.665
85.0	264.883	212.280	150.914	75.377	33.353	59.684	112.015	154.437	146.175	154.437
87.5	242.099	188.983	132.038	60.877	23.660	46.501	94.742	135.561	127.390	135.561
90.0	215.700	166.335	113.742	48.990	17.205	35.297	79.321	117.640	109.879	117.640
92.5	188.176	142.436	93.946	38.194	14.228	26.739	65.320	100.958	93.344	100.958
95.0	163.585	120.254	77.696	29.092	13.603	20.364	52.638	85.469	78.673	85.469
97.5	142.232	101.231	63.332	21.410	13.216	15.603	41.865	70.889	65.150	70.889
100.0	119.038	82.957	50.070	15.739	12.250	12.057	33.217	58.343	53.115	58.343
102.5	96.719	67.320	39.092	11.909	10.966	9.659	25.899	47.831	42.956	47.831
105.0	79.059	54.252	29.774	8.648	9.557	7.705	20.171	38.683	35.319	38.683
107.5	64.332	43.342	21.796	5.921	8.137	6.012	15.614	31.262	29.285	31.262
110.0	52.149	33.956	15.057	4.364	6.727	4.727	11.819	25.353	24.285	25.353
112.5	41.865	26.001	9.500	3.432	5.421	3.784	8.478	20.478	19.637	20.478
115.0	33.240	19.001	5.966	2.614	4.182	2.955	5.364	16.126	15.353	16.126
117.5	25.796	12.671	3.023	1.909	3.102	2.193	3.046	12.171	11.432	12.171
120.0	18.807	7.387	0.795	1.295	2.159	1.546	1.511	8.443	7.762	8.443
122.5	12.569	4.341	0.250	0.807	1.398	1.000	0.409	5.148	4.307	5.148
125.0	7.114	1.784	0.148	0.489	0.830	0.602	0.239	2.818	1.193	2.818
127.5	2.273	0.216	0.091	0.261	0.466	0.364	0.159	1.261	0.170	1.261
130.0	0.159	0.102	0.102	0.136	0.227	0.205	0.136	0.216	0.159	0.216
132.5	0.091	0.114	0.102	0.114	0.125	0.148	0.159	0.136	0.182	0.136

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CANDELA TABULATION - (Cont.)

135.0	0.091	0.114	0.114	0.125	0.125	0.148	0.170	0.159	0.193	0.159
137.5	0.102	0.125	0.125	0.136	0.148	0.170	0.182	0.182	0.216	0.182
140.0	0.125	0.136	0.136	0.159	0.159	0.193	0.193	0.193	0.216	0.193
142.5	0.136	0.148	0.159	0.159	0.170	0.193	0.205	0.205	0.227	0.205
145.0	0.159	0.170	0.170	0.193	0.193	0.216	0.216	0.227	0.227	0.227
147.5	0.170	0.170	0.182	0.193	0.205	0.216	0.227	0.227	0.239	0.227
150.0	0.182	0.182	0.193	0.205	0.216	0.227	0.239	0.239	0.250	0.239
152.5	0.193	0.193	0.205	0.216	0.216	0.239	0.250	0.250	0.261	0.250
155.0	0.205	0.205	0.216	0.227	0.239	0.250	0.261	0.261	0.284	0.261
157.5	0.227	0.239	0.239	0.261	0.261	0.273	0.284	0.295	0.307	0.295
160.0	0.250	0.261	0.261	0.273	0.273	0.284	0.318	0.318	0.341	0.318
162.5	0.250	0.273	0.261	0.250	0.250	0.273	0.307	0.330	0.352	0.330
165.0	0.273	0.307	0.284	0.261	0.250	0.261	0.318	0.341	0.375	0.341
167.5	0.307	0.341	0.307	0.261	0.250	0.250	0.330	0.364	0.409	0.364
170.0	0.330	0.352	0.284	0.250	0.250	0.250	0.307	0.352	0.386	0.352
172.5	0.352	0.318	0.273	0.250	0.239	0.239	0.261	0.307	0.295	0.307
175.0	0.341	0.295	0.261	0.250	0.239	0.239	0.261	0.284	0.284	0.284
177.5	0.295	0.284	0.261	0.239	0.239	0.239	0.239	0.273	0.295	0.273
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**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	825.526	825.526	825.526	825.526	825.526	825.526	825.526
2.5	817.503	821.640	827.072	833.072	838.163	841.129	826.697
5.0	804.594	812.924	823.810	835.595	844.697	848.902	841.527
7.5	790.184	802.196	818.253	835.947	847.357	851.289	854.368
10.0	774.673	789.616	810.628	833.799	845.823	847.118	859.937
12.5	757.342	774.900	800.503	828.617	838.629	837.356	856.107
15.0	737.808	758.456	788.287	820.356	826.254	824.345	843.902
17.5	716.227	739.944	773.502	809.026	810.708	809.049	827.197
20.0	693.477	720.091	756.672	794.628	793.025	794.435	812.856
22.5	669.237	698.193	738.046	777.161	774.309	780.525	800.151
25.0	643.736	674.544	717.262	756.922	755.661	766.854	788.696
27.5	619.054	649.373	694.659	733.842	737.046	753.115	777.082
30.0	595.189	622.781	669.885	708.375	717.898	738.399	764.956
32.5	572.450	595.349	643.202	681.374	698.443	722.739	752.285
35.0	551.097	567.530	614.554	653.169	677.840	706.182	738.796
37.5	532.074	538.767	585.007	624.031	656.112	688.386	723.807
40.0	514.641	509.221	554.722	594.814	633.213	668.749	707.466
42.5	497.595	480.095	522.574	564.723	609.349	647.305	689.067
45.0	480.038	451.469	489.777	534.188	584.382	624.656	667.874
47.5	461.822	422.786	456.515	503.380	557.836	600.417	645.850
50.0	441.991	394.899	423.673	472.026	530.244	574.552	622.315
52.5	419.991	367.682	390.081	439.741	501.050	548.563	597.690
55.0	396.774	341.590	356.614	407.445	471.663	521.824	572.552
57.5	372.569	316.078	323.715	374.671	442.276	494.652	546.438
60.0	347.602	290.430	291.589	342.556	412.013	466.924	519.733
62.5	321.522	264.338	259.372	310.214	381.433	438.253	493.607
65.0	295.271	238.769	227.916	277.736	351.454	409.445	466.879
67.5	269.486	212.802	197.449	246.497	322.169	380.819	437.866
70.0	243.394	187.336	167.789	215.223	292.475	353.352	407.627
72.5	218.212	161.937	140.243	186.597	264.543	326.988	379.194
75.0	194.438	137.516	113.231	159.221	238.564	302.396	353.614
77.5	172.074	114.720	88.457	134.152	214.416	279.543	330.420
80.0	149.596	94.673	66.070	112.185	191.927	257.565	308.760

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CANDELA TABULATION - (Cont.)

82.5	130.822	75.764	47.047	93.537	171.619	235.712	287.225
85.0	112.015	59.684	33.353	75.377	150.914	212.280	264.883
87.5	94.742	46.501	23.660	60.877	132.038	188.983	242.099
90.0	79.321	35.297	17.205	48.990	113.742	166.335	215.700
92.5	65.320	26.739	14.228	38.194	93.946	142.436	188.176
95.0	52.638	20.364	13.603	29.092	77.696	120.254	163.585
97.5	41.865	15.603	13.216	21.410	63.332	101.231	142.232
100.0	33.217	12.057	12.250	15.739	50.070	82.957	119.038
102.5	25.899	9.659	10.966	11.909	39.092	67.320	96.719
105.0	20.171	7.705	9.557	8.648	29.774	54.252	79.059
107.5	15.614	6.012	8.137	5.921	21.796	43.342	64.332
110.0	11.819	4.727	6.727	4.364	15.057	33.956	52.149
112.5	8.478	3.784	5.421	3.432	9.500	26.001	41.865
115.0	5.364	2.955	4.182	2.614	5.966	19.001	33.240
117.5	3.046	2.193	3.102	1.909	3.023	12.671	25.796
120.0	1.511	1.546	2.159	1.295	0.795	7.387	18.807
122.5	0.409	1.000	1.398	0.807	0.250	4.341	12.569
125.0	0.239	0.602	0.830	0.489	0.148	1.784	7.114
127.5	0.159	0.364	0.466	0.261	0.091	0.216	2.273
130.0	0.136	0.205	0.227	0.136	0.102	0.102	0.159
132.5	0.159	0.148	0.125	0.114	0.102	0.114	0.091
135.0	0.170	0.148	0.125	0.125	0.114	0.114	0.091
137.5	0.182	0.170	0.148	0.136	0.125	0.125	0.102
140.0	0.193	0.193	0.159	0.159	0.136	0.136	0.125
142.5	0.205	0.193	0.170	0.159	0.159	0.148	0.136
145.0	0.216	0.216	0.193	0.193	0.170	0.170	0.159
147.5	0.227	0.216	0.205	0.193	0.182	0.170	0.170
150.0	0.239	0.227	0.216	0.205	0.193	0.182	0.182
152.5	0.250	0.239	0.216	0.216	0.205	0.193	0.193
155.0	0.261	0.250	0.239	0.227	0.216	0.205	0.205
157.5	0.284	0.273	0.261	0.261	0.239	0.239	0.227
160.0	0.318	0.284	0.273	0.273	0.261	0.261	0.250
162.5	0.307	0.273	0.250	0.250	0.261	0.273	0.250
165.0	0.318	0.261	0.250	0.261	0.284	0.307	0.273
167.5	0.330	0.250	0.250	0.261	0.307	0.341	0.307
170.0	0.307	0.250	0.250	0.250	0.284	0.352	0.330
172.5	0.261	0.239	0.239	0.250	0.273	0.318	0.352
175.0	0.261	0.239	0.239	0.250	0.261	0.295	0.341
177.5	0.239	0.239	0.239	0.239	0.261	0.284	0.295
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	297.95	N.A.	11.50
0-30	623.43	N.A.	24.00
0-40	1014.78	N.A.	39.00
0-60	1810.73	N.A.	69.60
0-80	2347.31	N.A.	90.20
0-90	2485.45	N.A.	95.50
10-90	2407.39	N.A.	92.50
20-40	716.83	N.A.	27.60
20-50	1129.05	N.A.	43.40
40-70	1109.87	N.A.	42.70
60-80	536.59	N.A.	20.60
70-80	222.66	N.A.	8.60
80-90	138.14	N.A.	5.30
90-110	103.29	N.A.	4.00
90-120	113.71	N.A.	4.40
90-130	115.31	N.A.	4.40
90-150	115.54	N.A.	4.40
90-180	115.77	N.A.	4.50
110-180	12.48	N.A.	0.50
0-180	2601.22	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	78.06
10-20	219.89
20-30	325.48
30-40	391.35
40-50	412.22
50-60	383.72
60-70	313.93
70-80	222.66
80-90	138.14
90-100	72.35
100-110	30.94
110-120	10.42
120-130	1.60
130-140	0.11
140-150	0.12
150-160	0.11
160-170	0.08
170-180	0.03

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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	115	115	115	115	109	109	109	103	103	103	98	98	98	96
1	106	101	96	91	103	98	93	89	93	89	86	88	85	82	84	81	79	76
2	96	87	79	73	93	85	78	72	80	74	69	76	71	67	72	69	65	63
3	87	76	67	60	84	74	66	59	70	63	58	67	61	56	64	59	55	52
4	80	67	58	51	77	65	57	50	62	55	49	59	53	48	57	51	47	44
5	73	60	50	43	71	58	50	43	56	48	42	53	46	41	51	45	40	38
6	67	54	44	38	65	52	44	37	50	43	37	48	41	36	46	40	35	33
7	63	49	40	33	60	48	39	33	46	38	32	44	37	32	42	36	31	29
8	58	44	36	30	56	43	35	29	42	34	29	40	33	29	39	33	28	26
9	54	41	32	27	53	40	32	26	38	31	26	37	30	26	36	30	25	23
10	51	38	29	24	49	37	29	24	36	28	24	34	28	23	33	27	23	21

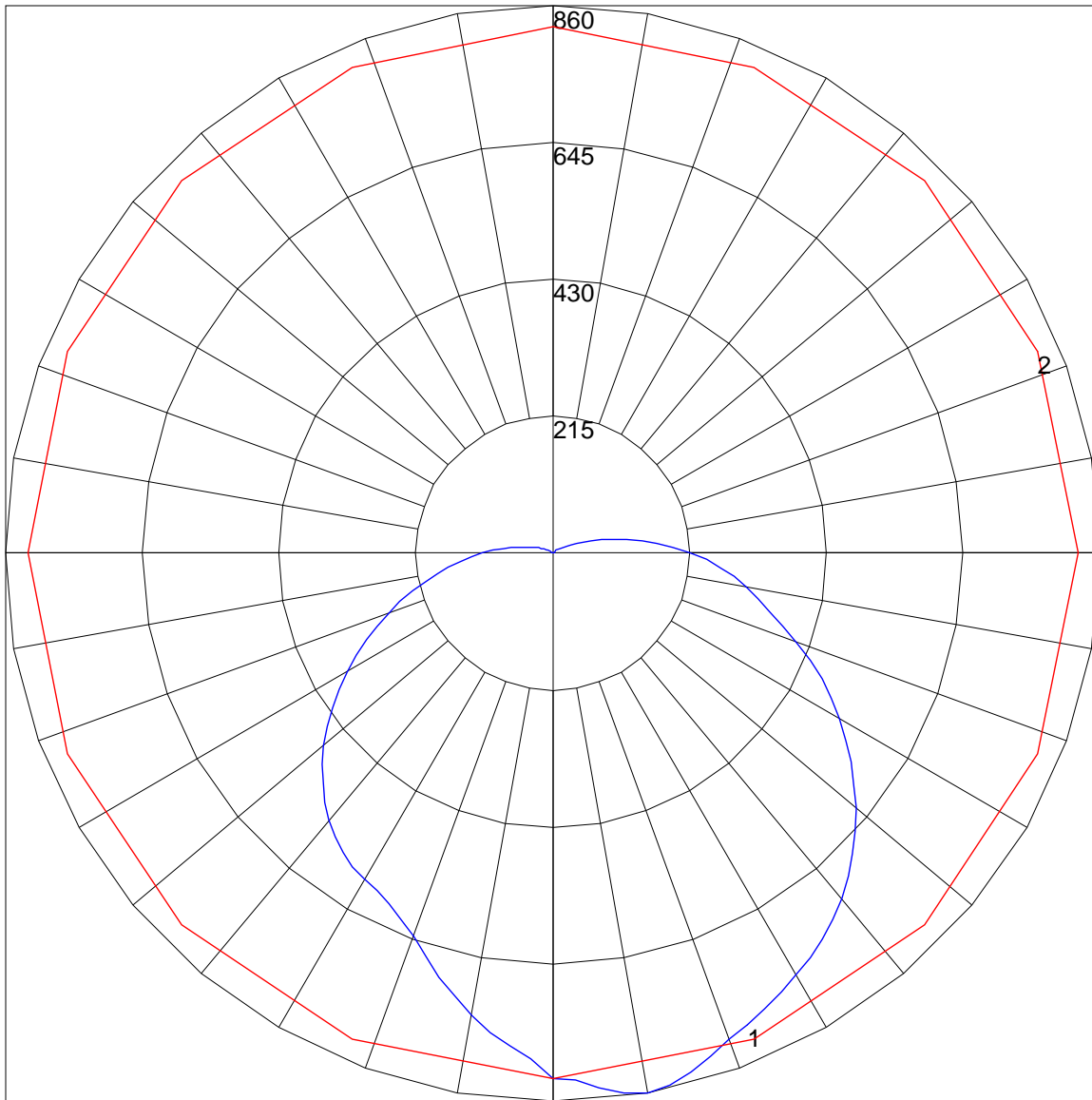
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UGR TABLE - CORRECTED

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	21.6	23.1	22.0	23.6	24.0	18.9	20.4	19.3	20.9	21.3
	3H	23.9	25.3	24.4	25.8	26.3	20.3	21.8	20.8	22.2	22.7
	4H	25.0	26.4	25.5	26.8	27.3	20.8	22.2	21.3	22.6	23.1
	6H	26.1	27.4	26.6	27.8	28.3	21.1	22.4	21.6	22.8	23.3
	8H	26.6	27.8	27.1	28.3	28.8	21.2	22.4	21.7	22.9	23.4
	12H	27.2	28.3	27.7	28.8	29.3	21.2	22.4	21.7	22.9	23.4
4H	2H	22.1	23.4	22.5	23.9	24.4	19.9	21.2	20.3	21.7	22.2
	3H	24.6	25.8	25.1	26.3	26.8	21.5	22.7	22.0	23.2	23.7
	4H	25.9	26.9	26.4	27.4	28.0	22.1	23.2	22.6	23.7	24.3
	6H	27.2	28.1	27.7	28.6	29.2	22.6	23.5	23.1	24.0	24.6
	8H	27.8	28.7	28.4	29.2	29.8	22.7	23.6	23.2	24.1	24.7
	12H	28.5	29.3	29.0	29.8	30.4	22.8	23.6	23.3	24.1	24.7
8H	4H	26.2	27.0	26.7	27.6	28.1	22.9	23.8	23.4	24.3	24.9
	6H	27.6	28.4	28.2	28.9	29.5	23.5	24.2	24.0	24.8	25.4
	8H	28.4	29.1	29.0	29.7	30.3	23.7	24.4	24.3	25.0	25.6
	12H	29.3	29.8	29.8	30.4	31.1	23.9	24.5	24.4	25.0	25.7
12H	4H	26.2	27.0	26.7	27.5	28.1	23.1	23.9	23.7	24.5	25.0
	6H	27.7	28.4	28.3	28.9	29.6	23.8	24.5	24.4	25.0	25.7
	8H	28.6	29.1	29.1	29.7	30.4	24.1	24.7	24.7	25.3	26.0

Maximum UGR = 31.1

POLAR GRAPH



Maximum Candela = 859.937 Located At Horizontal Angle = 0, Vertical Angle = 10
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0)