



IES INDOOR REPORT

PHOTOMETRIC FILENAME : TALEDPLUSSE-WALL_P.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	1444
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	267
Total Luminaire Watts	5.4
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	11549	10429	9112
55	11164	9637	7023
65	10491	8733	5038
75	9880	7916	3248
85	9512	7146	2642

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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	157.235	157.235	157.235	157.235	157.235	157.235	157.235	157.235	157.235	157.235
2.5	156.049	182.926	178.601	171.566	163.182	154.095	146.252	141.562	111.930	141.562
5.0	178.581	206.207	194.039	179.317	162.348	144.481	130.886	122.691	95.482	122.691
7.5	201.107	226.264	211.471	186.522	160.967	134.710	115.806	104.517	78.272	104.517
10.0	225.651	248.828	225.241	192.958	159.052	124.939	102.270	87.691	62.626	87.691
12.5	250.750	270.566	241.682	199.198	156.642	115.812	88.981	73.732	50.588	73.732
15.0	277.106	293.091	257.264	206.787	153.672	106.810	76.924	60.241	40.758	60.241
17.5	298.739	313.382	269.569	210.318	150.135	98.127	65.388	49.070	32.466	49.070
20.0	325.029	332.944	285.541	213.666	146.050	89.789	55.004	39.814	25.574	39.814
22.5	347.326	353.606	296.022	218.310	141.680	81.425	46.152	32.068	19.633	32.068
25.0	368.139	370.106	307.278	223.065	136.872	72.846	38.602	25.339	14.181	25.339
27.5	389.420	387.283	318.860	221.756	131.505	64.176	31.964	19.522	9.374	19.522
30.0	409.073	403.015	327.322	222.206	125.701	56.255	26.154	14.298	5.120	14.298
32.5	426.993	417.697	335.015	223.723	119.786	49.148	20.897	9.654	1.596	9.654
35.0	444.561	431.168	342.291	223.333	113.467	42.830	16.194	5.687	0.130	5.687
37.5	461.009	443.779	348.453	219.861	107.129	37.156	11.862	2.957	0.104	2.957
40.0	476.883	455.263	353.430	217.255	100.550	31.899	7.928	1.127	0.098	1.127
42.5	490.791	465.386	357.567	214.454	93.828	27.131	4.482	0.117	0.098	0.117
45.0	503.975	473.985	360.713	211.471	86.825	22.806	2.071	0.072	0.091	0.072
47.5	515.218	481.046	362.901	206.780	79.862	18.819	0.567	0.072	0.091	0.072
50.0	524.384	486.296	363.963	201.921	73.230	15.106	0.104	0.065	0.078	0.065
52.5	531.419	489.384	363.644	196.931	66.554	11.777	0.072	0.065	0.078	0.065
55.0	536.252	490.576	361.846	191.192	59.825	8.781	0.059	0.065	0.078	0.065
57.5	538.955	489.898	358.882	185.115	53.623	6.234	0.052	0.065	0.091	0.065
60.0	539.372	487.684	354.779	178.803	47.578	4.521	0.059	0.065	0.091	0.065
62.5	537.770	484.160	349.750	172.536	41.885	3.778	0.059	0.072	0.104	0.072
65.0	534.682	479.815	343.789	166.211	36.517	3.778	0.059	0.078	0.111	0.078
67.5	530.715	474.968	337.458	159.443	31.463	3.824	0.065	0.085	0.111	0.085
70.0	526.084	469.751	330.735	152.955	26.805	3.843	0.072	0.098	0.124	0.098
72.5	521.517	464.715	324.052	147.060	22.519	3.856	0.078	0.104	0.137	0.104
75.0	517.270	459.315	316.554	140.735	18.702	3.876	0.085	0.111	0.143	0.111
77.5	513.088	453.381	308.692	134.495	15.581	3.895	0.091	0.117	0.150	0.117
80.0	509.453	445.115	300.667	128.117	13.197	3.856	0.098	0.130	0.156	0.130
82.5	504.829	433.943	290.974	122.229	11.614	3.798	0.104	0.137	0.163	0.137
85.0	496.054	421.619	281.542	116.229	10.813	3.746	0.111	0.143	0.169	0.143
87.5	481.248	407.132	272.057	110.354	10.429	3.654	0.111	0.150	0.169	0.150
90.0	463.478	391.882	261.570	104.980	10.207	3.576	0.111	0.150	0.169	0.150
92.5	445.154	377.258	250.978	99.645	9.960	3.459	0.111	0.150	0.169	0.150
95.0	428.367	362.576	240.445	95.085	9.810	3.316	0.117	0.150	0.169	0.150
97.5	412.506	348.427	229.553	90.238	9.764	3.166	0.111	0.150	0.156	0.150
100.0	397.074	333.719	220.173	86.096	9.699	2.996	0.111	0.143	0.143	0.143
102.5	381.069	318.945	211.093	81.842	9.673	2.827	0.104	0.137	0.130	0.137
105.0	364.843	305.637	201.869	77.758	9.680	2.671	0.098	0.130	0.124	0.130
107.5	348.877	291.931	193.270	73.804	9.738	2.514	0.098	0.124	0.111	0.124
110.0	332.677	278.578	183.851	70.006	9.856	2.365	0.091	0.111	0.104	0.111
112.5	319.121	265.354	174.152	66.286	10.019	2.228	0.085	0.111	0.104	0.111
115.0	304.406	251.284	164.531	62.678	10.194	2.117	0.085	0.111	0.098	0.111
117.5	288.694	236.908	154.740	59.102	10.390	2.058	0.091	0.111	0.104	0.111
120.0	272.683	222.636	144.982	55.740	10.637	2.045	0.085	0.104	0.111	0.104
122.5	256.736	208.539	135.504	52.627	10.911	2.065	0.091	0.104	0.111	0.104
125.0	240.529	194.241	126.202	49.734	11.185	2.150	0.098	0.111	0.111	0.111
127.5	224.479	180.334	116.907	47.083	11.445	2.306	0.104	0.111	0.117	0.111
130.0	208.331	166.394	107.891	44.686	11.680	2.501	0.117	0.117	0.124	0.117
132.5	192.599	153.086	99.130	42.439	11.810	2.716	0.163	0.117	0.130	0.117

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CANDELA TABULATION - (Cont.)

135.0	177.246	139.856	90.571	40.283	11.810	2.970	0.287	0.124	0.137	0.124
137.5	162.199	127.088	82.545	38.185	11.680	3.231	0.436	0.117	0.130	0.117
140.0	147.575	114.672	74.989	35.762	11.439	3.485	0.645	0.137	0.124	0.137
142.5	133.276	102.999	68.149	32.635	11.126	3.719	0.899	0.208	0.176	0.208
145.0	119.428	91.841	62.026	28.766	10.716	3.908	1.179	0.306	0.300	0.306
147.5	106.322	81.451	56.372	24.441	10.233	4.045	1.446	0.456	0.365	0.456
150.0	93.710	72.201	51.018	20.675	9.732	4.143	1.681	0.632	0.365	0.632
152.5	82.506	63.987	45.285	17.633	9.204	4.221	1.889	0.808	0.456	0.808
155.0	72.592	56.620	38.934	15.197	8.631	4.280	2.065	0.951	0.528	0.951
157.5	63.707	49.493	31.013	13.276	8.064	4.286	2.215	0.990	0.612	0.990
160.0	55.721	42.120	23.196	11.660	7.452	4.254	2.280	1.062	0.632	1.062
162.5	48.464	31.652	16.546	9.953	6.833	4.195	2.247	1.049	0.625	1.049
165.0	40.706	22.617	11.627	8.436	6.201	4.084	2.137	1.133	0.717	1.133
167.5	31.156	15.178	8.260	7.185	5.543	3.902	1.967	1.277	0.847	1.277
170.0	16.487	8.195	6.657	6.019	4.879	3.628	1.830	1.433	0.984	1.433
172.5	7.954	5.830	5.361	5.048	4.293	3.355	1.817	1.563	1.120	1.563
175.0	3.974	4.136	4.299	4.123	3.687	3.042	2.045	1.674	1.283	1.674
177.5	1.928	2.840	3.635	3.498	3.329	2.892	2.378	2.143	1.472	2.143
180.0	2.606	2.606	2.606	2.606	2.606	2.606	2.606	2.606	2.606	2.606

**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	157.235	157.235	157.235	157.235	157.235	157.235	157.235
2.5	146.252	154.095	163.182	171.566	178.601	182.926	156.049
5.0	130.886	144.481	162.348	179.317	194.039	206.207	178.581
7.5	115.806	134.710	160.967	186.522	211.471	226.264	201.107
10.0	102.270	124.939	159.052	192.958	225.241	248.828	225.651
12.5	88.981	115.812	156.642	199.198	241.682	270.566	250.750
15.0	76.924	106.810	153.672	206.787	257.264	293.091	277.106
17.5	65.388	98.127	150.135	210.318	269.569	313.382	298.739
20.0	55.004	89.789	146.050	213.666	285.541	332.944	325.029
22.5	46.152	81.425	141.680	218.310	296.022	353.606	347.326
25.0	38.602	72.846	136.872	223.065	307.278	370.106	368.139
27.5	31.964	64.176	131.505	221.756	318.860	387.283	389.420
30.0	26.154	56.255	125.701	222.206	327.322	403.015	409.073
32.5	20.897	49.148	119.786	223.723	335.015	417.697	426.993
35.0	16.194	42.830	113.467	223.333	342.291	431.168	444.561
37.5	11.862	37.156	107.129	219.861	348.453	443.779	461.009
40.0	7.928	31.899	100.550	217.255	353.430	455.263	476.883
42.5	4.482	27.131	93.828	214.454	357.567	465.386	490.791
45.0	2.071	22.806	86.825	211.471	360.713	473.985	503.975
47.5	0.567	18.819	79.862	206.780	362.901	481.046	515.218
50.0	0.104	15.106	73.230	201.921	363.963	486.296	524.384
52.5	0.072	11.777	66.554	196.931	363.644	489.384	531.419
55.0	0.059	8.781	59.825	191.192	361.846	490.576	536.252
57.5	0.052	6.234	53.623	185.115	358.882	489.898	538.955
60.0	0.059	4.521	47.578	178.803	354.779	487.684	539.372
62.5	0.059	3.778	41.885	172.536	349.750	484.160	537.770
65.0	0.059	3.778	36.517	166.211	343.789	479.815	534.682
67.5	0.065	3.824	31.463	159.443	337.458	474.968	530.715
70.0	0.072	3.843	26.805	152.955	330.735	469.751	526.084
72.5	0.078	3.856	22.519	147.060	324.052	464.715	521.517
75.0	0.085	3.876	18.702	140.735	316.554	459.315	517.270
77.5	0.091	3.895	15.581	134.495	308.692	453.381	513.088
80.0	0.098	3.856	13.197	128.117	300.667	445.115	509.453

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CANDELA TABULATION - (Cont.)

82.5	0.104	3.798	11.614	122.229	290.974	433.943	504.829
85.0	0.111	3.746	10.813	116.229	281.542	421.619	496.054
87.5	0.111	3.654	10.429	110.354	272.057	407.132	481.248
90.0	0.111	3.576	10.207	104.980	261.570	391.882	463.478
92.5	0.111	3.459	9.960	99.645	250.978	377.258	445.154
95.0	0.117	3.316	9.810	95.085	240.445	362.576	428.367
97.5	0.111	3.166	9.764	90.238	229.553	348.427	412.506
100.0	0.111	2.996	9.699	86.096	220.173	333.719	397.074
102.5	0.104	2.827	9.673	81.842	211.093	318.945	381.069
105.0	0.098	2.671	9.680	77.758	201.869	305.637	364.843
107.5	0.098	2.514	9.738	73.804	193.270	291.931	348.877
110.0	0.091	2.365	9.856	70.006	183.851	278.578	332.677
112.5	0.085	2.228	10.019	66.286	174.152	265.354	319.121
115.0	0.085	2.117	10.194	62.678	164.531	251.284	304.406
117.5	0.091	2.058	10.390	59.102	154.740	236.908	288.694
120.0	0.085	2.045	10.637	55.740	144.982	222.636	272.683
122.5	0.091	2.065	10.911	52.627	135.504	208.539	256.736
125.0	0.098	2.150	11.185	49.734	126.202	194.241	240.529
127.5	0.104	2.306	11.445	47.083	116.907	180.334	224.479
130.0	0.117	2.501	11.680	44.686	107.891	166.394	208.331
132.5	0.163	2.716	11.810	42.439	99.130	153.086	192.599
135.0	0.287	2.970	11.810	40.283	90.571	139.856	177.246
137.5	0.436	3.231	11.680	38.185	82.545	127.088	162.199
140.0	0.645	3.485	11.439	35.762	74.989	114.672	147.575
142.5	0.899	3.719	11.126	32.635	68.149	102.999	133.276
145.0	1.179	3.908	10.716	28.766	62.026	91.841	119.428
147.5	1.446	4.045	10.233	24.441	56.372	81.451	106.322
150.0	1.681	4.143	9.732	20.675	51.018	72.201	93.710
152.5	1.889	4.221	9.204	17.633	45.285	63.987	82.506
155.0	2.065	4.280	8.631	15.197	38.934	56.620	72.592
157.5	2.215	4.286	8.064	13.276	31.013	49.493	63.707
160.0	2.280	4.254	7.452	11.660	23.196	42.120	55.721
162.5	2.247	4.195	6.833	9.953	16.546	31.652	48.464
165.0	2.137	4.084	6.201	8.436	11.627	22.617	40.706
167.5	1.967	3.902	5.543	7.185	8.260	15.178	31.156
170.0	1.830	3.628	4.879	6.019	6.657	8.195	16.487
172.5	1.817	3.355	4.293	5.048	5.361	5.830	7.954
175.0	2.045	3.042	3.687	4.123	4.299	4.136	3.974
177.5	2.378	2.892	3.329	3.498	3.635	2.840	1.928
180.0	2.606	2.606	2.606	2.606	2.606	2.606	2.606

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	61.80	N.A.	4.30
0-30	140.75	N.A.	9.70
0-40	250.39	N.A.	17.30
0-60	541.10	N.A.	37.50
0-80	860.25	N.A.	59.60
0-90	1007.43	N.A.	69.80
10-90	992.18	N.A.	68.70
20-40	188.59	N.A.	13.10
20-50	324.85	N.A.	22.50
40-70	451.53	N.A.	31.30
60-80	319.15	N.A.	22.10
70-80	158.34	N.A.	11.00
80-90	147.18	N.A.	10.20
90-110	229.68	N.A.	15.90
90-120	309.54	N.A.	21.40
90-130	366.26	N.A.	25.40
90-150	423.29	N.A.	29.30
90-180	436.17	N.A.	30.20
110-180	206.49	N.A.	14.30
0-180	1443.61	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	15.26
10-20	46.55
20-30	78.94
30-40	109.64
40-50	136.26
50-60	154.45
60-70	160.82
70-80	158.34
80-90	147.18
90-100	126.37
100-110	103.31
110-120	79.86
120-130	56.72
130-140	36.49
140-150	20.54
150-160	9.59
160-170	2.92
170-180	0.37

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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

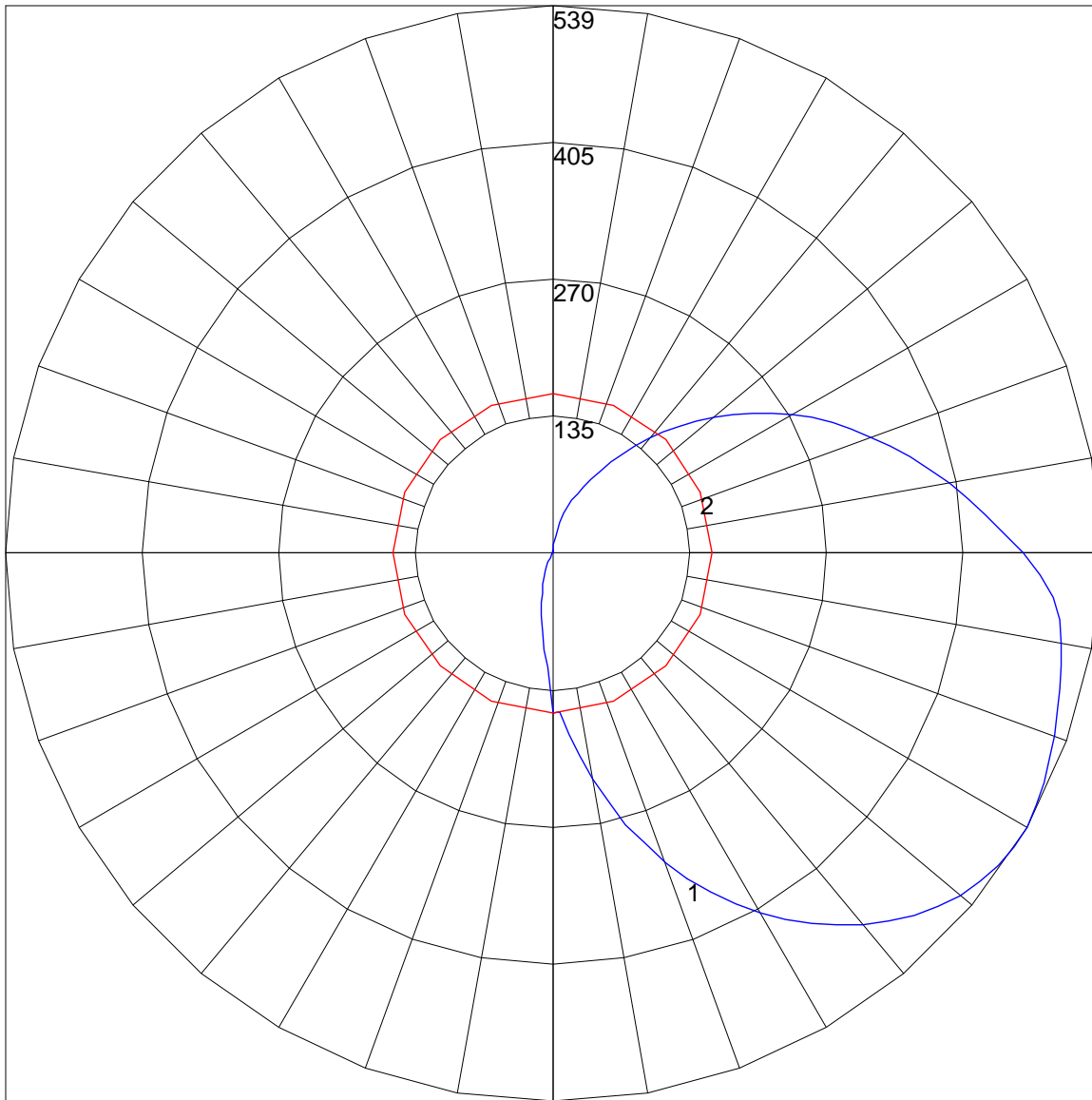
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UGR TABLE - CORRECTED

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	21.8	23.1	22.6	23.9	24.8	11.6	12.9	12.3	13.6	14.6
	3H	24.5	25.6	25.2	26.4	27.4	12.6	13.8	13.4	14.6	15.6
	4H	25.7	26.8	26.5	27.6	28.6	13.0	14.1	13.7	14.9	15.8
	6H	26.9	28.0	27.7	28.8	29.8	13.1	14.2	13.9	15.0	16.0
	8H	27.5	28.5	28.3	29.3	30.3	13.2	14.2	14.0	15.0	16.0
	12H	28.1	29.0	28.9	29.9	30.9	13.2	14.2	14.0	15.0	16.0
4H	2H	22.3	23.4	23.0	24.2	25.2	15.2	16.3	16.0	17.1	18.1
	3H	25.2	26.1	25.9	27.0	28.0	16.6	17.6	17.4	18.4	19.4
	4H	26.6	27.5	27.4	28.4	29.4	17.1	18.0	17.9	18.8	19.8
	6H	28.1	28.9	28.9	29.7	30.8	17.3	18.2	18.2	19.0	20.0
	8H	28.8	29.6	29.6	30.4	31.4	17.4	18.2	18.2	19.0	20.1
	12H	29.5	30.2	30.3	31.0	32.1	17.5	18.2	18.3	19.0	20.1
8H	4H	26.9	27.7	27.7	28.5	29.6	19.5	20.3	20.4	21.2	22.2
	6H	28.6	29.3	29.4	30.1	31.2	20.1	20.8	21.0	21.7	22.7
	8H	29.5	30.1	30.3	30.9	32.0	20.3	20.9	21.2	21.8	22.9
	12H	30.3	30.9	31.2	31.8	32.9	20.4	21.0	21.3	21.9	23.0
12H	4H	26.9	27.6	27.8	28.5	29.5	20.3	21.0	21.1	21.9	22.9
	6H	28.7	29.3	29.5	30.1	31.2	21.1	21.7	22.0	22.6	23.7
	8H	29.6	30.2	30.5	31.0	32.1	21.5	22.0	22.3	22.9	24.0

Maximum UGR = 32.9

POLAR GRAPH



Maximum Candela = 539.372 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)